

Documented Code For glossaries

v4.11

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This is the documented code for the `glossaries` package. This bundle comes with the following documentation:

`glossariesbegin.pdf` If you are a complete beginner, start with “The `glossaries` package: a guide for beginners”.

`glossary2glossaries.pdf` If you are moving over from the obsolete `glossary` package, read “Upgrading from the `glossary` package to the `glossaries` package”.

`glossaries-user.pdf` For the main user guide, read “`glossaries.sty` v4.11: `LATEX2e` Package to Assist Generating Glossaries”.

`mfirstruc-manual.pdf` The commands provided by the `mfirstruc` package are briefly described in “`mfirstruc.sty`: uppercasing first letter”.

`glossaries-code.pdf` This document is for advanced users wishing to know more about the inner workings of the `glossaries` package.

INSTALL Installation instructions.

CHANGES Change log.

README Package summary.

The user level commands described in the user manual (`glossaries-user.pdf`) may be considered “future-proof”. Even if they become deprecated, they should still work for old documents (although they may not work in a document that also contains new commands introduced since the old commands were deprecated, and you may need to specify a compatibility mode).

The internal commands in *this* document that aren't documented in the *user manual* should not be considered future-proof and are liable to change. If you want a new user level command, you can post a feature request at <http://www.dickimaw-books.com/feature-request.html>. If you are a package writer wanting to integrate your package with glossaries, it's better to request a new user level command than to hack these internals.

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1 Main Package Code

1.1 Package Definition

This package requires $\text{\LaTeX} 2\epsilon$.

```
1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{glossaries}[2014/09/01 v4.11 (NLCT)]
```

Required packages:

```
3 \RequirePackage{ifthen}
4 \RequirePackage{xkeyval}[2006/11/18]
5 \RequirePackage{mfirstuc}
```

The `textcase` package has much better case changing handling, so use `\MakeTextUppercase` instead of `\MakeUppercase`

```
6 \RequirePackage{textcase}
```

```
7 \renewcommand*\mfirstucMakeUppercase{\MakeTextUppercase}%
8 \RequirePackage{xfor}
9 \RequirePackage{datatool-base}
```

Need to use `\new@ifnextchar` instead of `\@ifnextchar` in commands that have a final optional argument (such as `\gls`) so require `.xspace`. Thanks to Morten Høgholm for suggesting this. (This has replaced using the `xspace` package.)

```
10 \RequirePackage{amsgen}
```

As from v3.0, now loading `etoolbox`:

```
11 \RequirePackage{etoolbox}
```

Check if doc has been loaded.

```
\if@gls@docloaded
```

```
12 \newif\if@gls@docloaded
13 \@ifpackageloaded{doc}%
14 {%
15   \@gls@docloadedtrue
16 }%
17 {%
18   \@ifclassloaded{nlectdoc}{\@gls@docloadedtrue}{\@gls@docloadedfalse}%
19 }
20 \if@gls@docloaded
```

`\doc` has been loaded, so some modifications need to be made to ensure both packages can work together. The amount of conflict has been reduced as from v4.11 and no longer involves patching internal commands.

`\PrintChanges` needs to use `doc`'s version of `theglossary`, so save that.

```
\glsorg@theglossary
```

```
21 \let\glsorg@theglossary\theglossary
```

```
sorg@endtheglossary
```

```
22 \let\glsorg@endtheglossary\endtheglossary
```

`\PrintChanges` Now redefine `\PrintChanges` so that it uses the original `theglossary` environment.

```
23 \let\glsorg@PrintChanges\PrintChanges
24 \renewcommand{\PrintChanges}{%
25   \begingroup
26   \let\theglossary\glsorg@theglossary
27   \let\endtheglossary\glsorg@endtheglossary
28   \glsorg@PrintChanges
29   \endgroup
30 }
```

End of doc stuff.

```
31 \fi
```

1.2 Package Options

`toc` The toc package option will add the glossaries to the table of contents. This is a boolean key, if the value is omitted it is taken to be true.

```
32 \define@boolkey{glossaries.sty}[gls]{toc}[true]{}
```

`numberline` The numberline package option adds `\numberline` to `\addcontentsline`. Note that this option only has an effect if used in with `toc=true`.

```
33 \define@boolkey{glossaries.sty}[gls]{numberline}[true]{}
```

`\@@glossarysec` The sectional unit used to start the glossary is stored in `\@@glossarysec`. If chapters are defined, this is initialised to chapter, otherwise it is initialised to section.

```
34 \ifcsundef{chapter}%
35   {\newcommand*{\@@glossarysec}{section}%
36   \newcommand*{\@@glossarysec}{chapter}}
```

`section` The section key can be used to set the sectional unit. If no unit is specified, use section as the default. The starred form of the named sectional unit will be used. If you want some other way to start the glossary section (e.g. a numbered section) you will have to redefine `\glossarysection`.

```
37 \define@choicekey{glossaries.sty}{section}{part,chapter,section,%
38 subsection,subsubsection,paragraph,subparagraph}[section]{%
39 \renewcommand*{\@@glossarysec}{#1}}
```

Determine whether or not to use numbered sections.

`\@@glossarysecstar`

```
40 \newcommand*{\@@glossarysecstar}{*}
```

`\@@glossaryseclabel`

```
41 \newcommand*{\@@glossaryseclabel}{}
```

`\glsautoprefix` Prefix to add before label if automatically generated:

```
42 \newcommand*{\glsautoprefix}{}
```

`numberedsection`

```
43 \define@choicekey{glossaries.sty}{numberedsection}{[\val\nr]}{%
44 false,nolabel,autolabel,nameref}[nolabel]{%
45 \ifcase\nr\relax
46   \renewcommand*{\@@glossarysecstar}{*}%
47   \renewcommand*{\@@glossaryseclabel}{}%
48 \or
49   \renewcommand*{\@@glossarysecstar}{}%
50   \renewcommand*{\@@glossaryseclabel}{}%
51 \or
52   \renewcommand*{\@@glossarysecstar}{}%
53   \renewcommand*{\@@glossaryseclabel}{%}
```

```

54     \label{\glsautoprefix@glo@type}}%
55     \or
56     \renewcommand*{\@glossarysecstar}{*}%
57     \renewcommand*{\@glossaryseclabel}{%
58         \protected@edef\@currentlabelname{\glossarytoctitle}%
59         \label{\glsautoprefix@glo@type}}%
60     \fi
61 }

```

The default glossary style is stored in `\@glossary@default@style`. This is initialised to `list`. (The `list` style is defined in the accompanying package described in [subsection 1.18](#).)

`\@glossary@default@style`

```

62 \newcommand*{\@glossary@default@style}{list}

```

- `style` The default glossary style can be changed using the `style` package option. The value can be the name of any defined glossary style. The glossary style is set at the beginning of the document, so you can still use the `style` key to set a style that is defined in another package. This package comes with some predefined styles that are defined in [subsection 1.18](#).

```

63 \define@key{glossaries.sty}{style}{%
64   \renewcommand*{\@glossary@default@style}{#1}%
65 }

```

Each `\DeclareOptionX` needs a corresponding `\DeclareOption` so that it can be passed as a document class option, so define a command that will implement both.

`\@gls@declareoption`

```

66 \newcommand*{\@gls@declareoption}[2]{%
67   \DeclareOptionX[#1]{#2}%
68   \DeclareOption{#1}{#2}%
69 }

```

Each entry within a given glossary will have an associated number list. By default, this refers to the page numbers on which that entry has been used, but it can also refer to any counter used in the document (such as the section or equation counters). The default number list format displays the number list “as is”:

`\@glossaryentrynumbers`

```

70 \newcommand*{\glossaryentrynumbers}[1]{#1\gls@save@numberlist{#1}}

```

- `nonumberlist` Note that the entire number list for a given entry will be passed to `\glossaryentrynumbers` so any font changes will also be applied to the delimiters. The `nonumberlist` package option suppresses the number lists (this simply redefines `\glossaryentrynumbers` to ignores its argument).

```

71 \@gls@declareoption{nonumberlist}{%
72   \renewcommand*{\glossaryentrynumbers}[1]{\gls@save@numberlist{#1}}%
73 }

savenunderlist Provide means to store the number list for entries.
74 \define@boolkey{glossaries.sty}[gls]{savenunderlist}[true]{}
75 \glssavenunderlistfalse

o@seeautonumberlist
76 \newcommand*{@glo@seeautonumberlist}{}

seeautonumberlist Automatically activates number list for entries containing the see key.
77 \@gls@declareoption{seeautonumberlist}{%
78   \renewcommand*{@glo@seeautonumberlist}{%
79     \def@glo@prefix{\glsnextpages}%
80   }%
81 }

\@gls@loadlong
82 \newcommand*{@gls@loadlong}{\RequirePackage{glossary-long}}

nolong This option prevents from being loaded. This means that the glossary styles
that use the longtable environment will not be available. This option is pro-
vided to reduce overhead caused by loading unrequired packages.
83 \@gls@declareoption{nolong}{\renewcommand*{@gls@loadlong}{}{}}

\@gls@loadsuper The package isn't loaded if isn't installed.
84 \IfFileExists{supertabular.sty}{%
85   \newcommand*{@gls@loadsuper}{\RequirePackage{glossary-super}}{}{%
86   \newcommand*{@gls@loadsuper}{}}}

nosuper This option prevents from being loaded. This means that the glossary styles
that use the supertabular environment will not be available. This option is pro-
vided to reduce overhead caused by loading unrequired packages.
87 \@gls@declareoption{nosuper}{\renewcommand*{@gls@loadsuper}{}{}}

\@gls@loadlist
88 \newcommand*{@gls@loadlist}{\RequirePackage{glossary-list}}

nolist This option prevents from being loaded (to reduce overheads if required). Nat-
urally, the styles defined in will not be available if this option is used.
89 \@gls@declareoption{nolist}{\renewcommand*{@gls@loadlist}{}{}}

\@gls@loadtree
90 \newcommand*{@gls@loadtree}{\RequirePackage{glossary-tree}}

```

| | |
|----------------------------|--|
| notree | This option prevents from being loaded (to reduce overheads if required). Naturally, the styles defined in will not be available if this option is used. |
| | 91 \@gls@declareoption{notree}{\renewcommand*\{\@gls@loadtree\}{}} |
| nostyles | Provide an option to suppress all the predefined styles (in the event that the user has custom styles that are not dependent on the predefined styles). |
| | 92 \@gls@declareoption{nostyles}{% |
| | 93 \renewcommand*\{\@gls@loadlong\}{} |
| | 94 \renewcommand*\{\@gls@loadsuper\}{} |
| | 95 \renewcommand*\{\@gls@loadlist\}{} |
| | 96 \renewcommand*\{\@gls@loadtree\}{} |
| | 97 \let\@glossary@default@style\relax |
| | 98 } |
| \glspostdescription | The description terminator is given by \glspostdescription (except for the 3 and 4 column styles). This is a full stop by default. The spacefactor is adjusted in case the description ends with an upper case letter. (Patch provided by Michael Pock.) |
| | 99 \newcommand*\{\glspostdescription\}{% |
| | 100 \ifglsnopostrdot\else.\spacefactor\sfcode`\.\fi |
| | 101 } |
| nopostdot | Boolean option to suppress post description dot |
| | 102 \define@boolkey{glossaries.sty}[gls]{nopostdot}[true]{} |
| | 103 \glsnopostrdotfalse |
| nogroupskip | Boolean option to suppress vertical space between groups in the pre-defined styles. |
| | 104 \define@boolkey{glossaries.sty}[gls]{nogroupskip}[true]{} |
| | 105 \glsnogroupskipfalse |
| ucmark | Boolean option to determine whether or not to use use upper case in definition of \glsglossarymark |
| | 106 \define@boolkey{glossaries.sty}[gls]{ucmark}[true]{} |
| | 107 \@ifclassloaded{memoir} |
| | 108 {% |
| | 109 \glsucmarktrue |
| | 110 }% |
| | 111 {% |
| | 112 \glsucmarkfalse |
| | 113 } |
| entrycounter | Defines a counter that can be used in the standard glossary styles to number each (main) entry. If true, this will define a counter called glossaryentry. |
| | 114 \define@boolkey{glossaries.sty}[gls]{entrycounter}[true]{} |
| | 115 \glsentrycounterfalse |

entrycounterwithin This option can be used to set a parent counter for glossaryentry. This option automatically sets entrycounter=true.

```
116 \define@key{glossaries.sty}{counterwithin}{%
117   \renewcommand*\@gls@counterwithin{\#1}%
118   \glsentrycountertrue
119 }
```

\@gls@counterwithin The default value is no parent counter:

```
120 \newcommand*\@gls@counterwithin{}
```

subentrycounter Define a counter that can be used in the standard glossary styles to number each level 1 entry. If true, this will define a counter called glossarysubentry.

```
121 \define@boolkey{glossaries.sty}[gls]{subentrycounter}[true]{}
122 \glssubentrycounterfalse
```

lo@default@sorttype Initialise default sort for \printnoidxglossary

```
123 \newcommand*\@glo@default@sorttype{standard}
```

sort Define the sort method: sort=standard (default), sort=def (order of definition) or sort=use (order of use).

```
124 \define@choicekey{glossaries.sty}{sort}{standard,def,use}{%
125   \renewcommand*\@glo@default@sorttype{\#1}%
126   \csname @gls@setupsort\#1\endcsname
127 }
```

\glsprestandardsort **\glsprestandardsort{\langle sort cs \rangle}{\langle type \rangle}{\langle label \rangle}**

Allow user to hook into sort mechanism. The first argument *<sort cs>* is the temporary control sequence containing the sort value before it has been sanitized and had [makeindex](#)/[xindy](#) special characters escaped.

```
128 \newcommand*\glsprestandardsort[3]{%
129   \glsdosanitizesort
130 }
```

@setupsort@standard Set up the macros for default sorting.

```
131 \newcommand*\@gls@setupsort@standard{%
```

Store entry information when it's defined.

```
132 \def\do@glo@storeentry{\@glo@storeentry}%
133 \def\@gls@defsortcount##1{}%
```

No count register required for standard sort.

```
134 \def\@gls@defsort##1##2{%
```

```

135   \ifx\@glo@sort\@glsdefaultsort
136     \let\@glo@sort\@glo@name
137   \fi
138   \let\glsdosanitizesort\gls@sanitizesort
139   \glsprestandardsort{\@glo@sort}{##1}{##2}%
140   \expandafter\protected\xdef\csname glo@##2@sort\endcsname{\@glo@sort}%
141 }%

```

Don't need to do anything when the entry is used.

```

142 \def\@gls@setsort##1{}%
143 }

```

Set standard sort as the default:

```

144 \gls@setupsort@standard

```

\glssortnumberfmt Format the number used as the sort key by sort=def and sort=use. Defaults to six digit numbering.

```

145 \newcommand*\glssortnumberfmt[1]{%
146   \ifnum#1<100000 0\fi
147   \ifnum#1<10000 0\fi
148   \ifnum#1<1000 0\fi
149   \ifnum#1<100 0\fi
150   \ifnum#1<10 0\fi
151   \number#1%
152 }

```

\@gls@setupsort@def Set up the macros for order of definition sorting.

```

153 \newcommand*{\@gls@setupsort@def}{%

```

Store entry information when it's defined.

```

154 \def\do@glo@storeentry{\@glo@storeentry}%

```

Defined count register associated with the glossary.

```

155 \def\@gls@defsortcount##1{%
156   \expandafter\global
157   \expandafter\newcount\csname glossary@##1@sortcount\endcsname
158 }%

```

Increment count register associated with the glossary and use as the sort key.

```

159 \def\@gls@defsort##1##2{%
160   \expandafter\global\expandafter
161   \advance\csname glossary@##1@sortcount\endcsname by 1\relax
162   \expandafter\protected\xdef\csname glo@##2@sort\endcsname{%
163     \expandafter\glssortnumberfmt
164     {\csname glossary@##1@sortcount\endcsname}}%
165 }%

```

Don't need to do anything when the entry is used.

```

166 \def\@gls@setsort##1{}%
167 }

```

```

@gls@setupsort@use Set up the macros for order of use sorting.
168 \newcommand*{\gls@setupsort@use}{%
  Don't store entry information when it's defined.
169   \let\do@glo@storeentry\gobble
  Defined count register associated with the glossary.
170   \def\gls@defsortcount##1{%
171     \expandafter\global
172     \expandafter\newcount\csname glossary@##1@sortcount\endcsname
173   }%
  Initialise the sort key to empty.
174   \def\gls@defsort##1##2{%
175     \expandafter\gdef\csname glo@##1@sort\endcsname{}%
176   }%
  If the sort key hasn't been set, increment the counter associated with the glossary and set the sort key.
177   \def\gls@setsort##1{%
    Get the parent, if one exists
178     \edef\glo@parent{\csname glo@##1@parent\endcsname}%
    Set the information for the parent entry if not already done.
179     \ifx\glo@parent\empty
180     \else
181       \expandafter\gls@setsort\expandafter{\glo@parent}%
182     \fi
    Set index information for this entry
183     \edef\glo@type{\csname glo@##1@type\endcsname}%
184     \edef\gls@tmp{\csname glo@##1@sort\endcsname}%
185     \ifx\gls@tmp\empty
186       \expandafter\global\expandafter
187       \advance\csname glossary@\glo@type @sortcount\endcsname by 1\relax
188       \expandafter\protected\expandafter\csname glo@##1@sort\endcsname{%
189         \expandafter\glossortnumberfmt
190         {\csname glossary@\glo@type @sortcount\endcsname}}%
191     \glo@storeentry{##1}%
192   \fi
193 }%
194 }

\glsdefmain Define the main glossary. This will be the first glossary to be displayed when using \printglossaries. The default extensions conflict if used with doc, so provide different extensions if doc loaded. (If these extensions are inappropriate, use nomain and manually define the main glossary with the desired extensions.)
195 \newcommand*{\glsdefmain}{%
196   \if@gls@docloaded

```

```

197     \newglossary[g1g2]{main}{gls2}{glo2}{\glossaryname}%
198     \else
199     \newglossary{main}{gls}{glo}{\glossaryname}%
200 \fi
Define hook to set the toc title when translator is in use.
201 \newcommand*\gls@tr@set@main@toctitle}{%
202     \translatelet{\glossarytoctitle}{Glossary}%
203 }%
204 }

```

Keep track of the default glossary. This is initialised to the main glossary, but can be changed if for some reason you want to make a secondary glossary the main glossary. This affects any commands that can optionally take a glossary name as an argument (or as the value of the type key in a key-value list). This was mainly done so that `\loadglsentries` can temporarily change `\glsdefaulttype` while it loads a file containing new glossary entries (see [subsection 1.9](#)).

```
\glsdefaulttype
205 \newcommand*\glsdefaulttype}{main}
```

Keep track of which glossary the acronyms are in. This is initialised to `\glsdefaulttype`, but is changed by the acronym package option.

```
\acronymtype
206 \newcommand*\acronymtype}{\glsdefaulttype}
```

`nomain` The `nomain` option suppress the creation of the main glossary.

```
207 \@gls@declareoption{nomain}{%
208     \let\glsdefaulttype\relax
209     \renewcommand*\glsdefmain}{}
210 }
```

`acronym` The `acronym` option sets an associated conditional which is used in [subsection 1.16](#) to determine whether or not to define a separate glossary for acronyms.

```
211 \define@boolkey{glossaries.sty}[gls]{acronym}[true]{%
212     \ifglsacronym
213         \renewcommand*\@gls@do@acronymsdef}{%
214             \DeclareAcronymList{acronym}%
215             \newglossary[alg]{acronym}{acr}{acn}{\acronymname}%
216             \renewcommand*\acronymtype{acronym}%
217 }
```

Define hook to set the toc title when translator is in use.

```
217 \newcommand*\gls@tr@set@acronym@toctitle}{%
218     \translatelet{\glossarytoctitle}{Acronyms}%
219 }%
220 }
```

```

221 \else
222   \let\@gls@do@acronymsdef\relax
223 \fi
224 }

\printacronyms Define \printacronyms at the start of the document if acronym is set and compatibility mode isn't on and \printacronyms hasn't already been defined.
225 \AtBeginDocument{%
226   \ifglsacronym
227     \ifbool{glscompatible-3.07}{%
228       {}%
229       {}%
230       \providecommand*\printacronyms[1][]{%
231         \printglossary[type=\acronymtype,#1]}%
232     }%
233   \fi
234 }

@gls@do@acronymsdef Set default value
235 \newcommand*{\@gls@do@acronymsdef}{}}

acronyms Provide a synonym for acronym=true that can be passed via the document class options.
236 \glsdeclareoption{acronyms}{%
237   \glsacronymtrue
238   \renewcommand{\@gls@do@acronymsdef}{%
239     \DeclareAcronymList{acronym}%
240     \newglossary[alg]{acronym}{acr}{acn}{\acronymname}%
241     \renewcommand*{\acronymtype}{acronym}%
242     Define hook to set the toc title when translator is in use.
243     \newcommand*{\gls@tr@set@acronym@toctitle}{%
244       \translatelet{\glossarytoctitle}{Acronyms}%
245     }%
246   }%
247 }

{@glsacronymlists Comma-separated list of glossary labels indicating which glossaries contain acronyms. Note that \SetAcronymStyle must be used after adding labels to this macro.
248 \newcommand*{\@glsacronymlists}[1]{%
249   \ifx\@glsacronymlists\empty
250     \protected@xdef\@glsacronymlists{\#1}%
251   \else
252     \protected@xdef\@glsacronymlists{\@glsacronymlists,\#1}%
253   \fi
254 }
```

```
253   \fi  
254 }
```

\DeclareAcronymList Identifies the named glossary as a list of acronyms and adds to the list. (Doesn't check if the glossary exists, but checks if label already in list. Use \SetAcronymStyle after identifying all the acronym lists.)

```
255 \newcommand*{\DeclareAcronymList}[1]{%  
256   \glsIfListOfAcronyms{#1}{}{\@addtoacronymlists{#1}}%  
257 }
```

```
\glsIfListOfAcronyms \glsIfListOfAcronyms{\langle label \rangle}{\langle true part \rangle}{\langle false part \rangle}
```

Determines if the glossary with the given label has been identified as being a list of acronyms.

```
258 \newcommand{\glsIfListOfAcronyms}[1]{%  
259   \edef\@do@gls@islistofacronyms{  
260     \noexpand\gls@islistofacronyms{#1}{\@glsacronymlists}}%  
261   \@do@gls@islistofacronyms  
262 }
```

Internal command requires label and list to be expanded:

```
263 \newcommand{\@gls@islistofacronyms}[4]{%  
264   \def\gls@islistofacronyms##1,#1##2\end@gls@islistofacronyms{  
265     \def\@before{##1}\def\@after{##2}}%  
266   \gls@islistofacronyms,#2,#1,\@nil\end@gls@islistofacronyms  
267   \ifx\@after\@nil
```

Not found

```
268   #4%  
269 \else
```

Found

```
270   #3%  
271   \fi  
272 }
```

if@glsisacronymlist Convenient boolean.

```
273 \newif\if@glsisacronymlist
```

@checkisacronymlist Sets the above boolean if argument is a label representing a list of acronyms.

```
274 \newcommand*{\gls@checkisacronymlist}[1]{%  
275   \glsIfListOfAcronyms{#1}%  
276   {\@glsisacronymlisttrue}{\@glsisacronymlistfalse}}%  
277 }
```

\SetAcronymLists Sets the “list of acronyms” list. Argument must be a comma-separated list of glossary labels. (Doesn't check at this point if the glossaries exists.)

```
278 \newcommand*{\SetAcronymLists}[1]{%
```

```
279 \renewcommand*{\@glsacronymlists}{#1}%
280 }
```

acronymlists

```
281 \define@key{glossaries.sty}{acronymlists}{%
282   \DeclareAcronymList{#1}%
283 }
```

The default counter associated with the numbers in the glossary is stored in `\glscounter`. This is initialised to the page counter. This is used as the default counter when a new glossary is defined, unless a different counter is specified in the optional argument to `\newglossary` (see [subsection 1.6](#)).

`\glscounter`

```
284 \newcommand{\glscounter}{page}
```

`counter` The counter option changes the default counter. (This just redefines `\glscounter`.)

```
285 \define@key{glossaries.sty}{counter}{%
286   \renewcommand*{\glscounter}{#1}%
287 }
```

`\@gls@nohyperlist`

```
288 \newcommand*{\@gls@nohyperlist}{}%
```

`DeclareNoHyperList`

```
289 \newcommand*{\GlsDeclareNoHyperList}[1]{%
290   \ifdefempty{\@gls@nohyperlist}%
291   {}%
292   \renewcommand*{\@gls@nohyperlist}{#1}%
293   {}%
294   {}%
295   \appto{\@gls@nohyperlist}{,#1}%
296   {}%
297 }
```

`nohypertypes`

```
298 \define@key{glossaries.sty}{nohypertypes}{%
299   \GlsDeclareNoHyperList{#1}%
300 }
```

`\GlossariesWarning` Prints a warning message.

```
301 \newcommand*{\GlossariesWarning}[1]{%
302   \PackageWarning{glossaries}{#1}%
303 }
```

`sariesWarningNoLine` Prints a warning message without the line number.

```
304 \newcommand*{\GlossariesWarningNoLine}[1]{%
305   \PackageWarningNoLine{glossaries}{#1}%
306 }
```

```

nowarn Define package option to suppress warnings
307 \@gls@declareoption{nowarn}{%
308   \renewcommand*\{\GlossariesWarning}[1]{()}%
309   \renewcommand*\{\GlossariesWarningNoLine}[1]{()}%
310 }

@warnonglossdefined Issue a warning if overriding \printglossary
311 \newcommand*\{@gls@warnonglossdefined}{%
312   \GlossariesWarning{Overriding \string\printglossary}%
313 }

rnontheglossdefined Issue a warning if overriding theglossary
314 \newcommand*\{@gls@warnontheglossdefined}{%
315   \GlossariesWarning{Overriding ‘theglossary’ environment}%
316 }

noredefwarn Suppress warning on redefinition of \printglossary
317 \@gls@declareoption{noredefwarn}{%
318   \renewcommand*\{@gls@warnonglossdefined}{()}%
319   \renewcommand*\{@gls@warnontheglossdefined}{()}%
320 }

```

As from version 3.08a, the only information written to the external glossary files are the label and sort values. Therefore, now, the only sanitize option that makes sense is the one for the sort key. so the sanitize option is now deprecated and there is only a sanitizesort option.

```

@gls@sanitizedesc
321 \newcommand*\{@gls@sanitizedesc}{%
322 }

```

\glssetexpandfield \glssetexpandfield{<field>}

Sets field to always expand.

```

323 \newcommand*\{\glssetexpandfield}[1]{%
324   \csdef{gls@assign@#1@field}##1##2{%
325     \@@gls@expand@field{##1}{#1}{##2}%
326   }%
327 }

```

\glssetnoexpandfield \glssetnoexpandfield{<field>}

Sets field to never expand.

```

328 \newcommand*\{\glssetnoexpandfield}[1]{%
329   \csdef{gls@assign@#1@field}##1##2{%

```

```

330     \@@gls@noexpand@field{##1}{#1}{##2}%
331   }%
332 }

s@assign@type@field The type must always be expandable.
333 \glssetexpandfield{type}

s@assign@desc@field The description is not expanded by default:
334 \glssetnoexpandfield{desc}

gn@descplural@field
335 \glssetnoexpandfield{descplural}

\@gls@sanitizename
336 \newcommand*{\@gls@sanitizename}{} 

s@assign@name@field Don't expand name by default.
337 \glssetnoexpandfield{name}

@gls@sanitizesymbol
338 \newcommand*{\@gls@sanitizesymbol}{} 

assign@symbol@field Don't expand symbol by default.
339 \glssetnoexpandfield{symbol}

@symbolplural@field
340 \glssetnoexpandfield{symbolplural}

    Sanitizing stuff:

\@gls@sanitizesort
341 \newcommand*{\@gls@sanitizesort}{%
342   \ifglssanitizesort
343     \@@gls@sanitizesort
344   \else
345     \@@gls@nosanitizesort
346   \fi
347 }

\@@gls@sanitizesort
348 \newcommand*{\@@gls@sanitizesort}{%
349   \onelevel@sanitize\glo@sort
350 }

@gls@nosanitizesort
351 \newcommand*{\@@gls@nosanitizesort}{} 

```

```

@noidx@sanitizesort Remove braces around first character (if present) before sanitizing.
352 \newcommand*\@gls@noidx@sanitizesort{%
353   \ifdefvoid\@glo@sort
354   {}%
355   {}%
356   \expandafter\@@gls@noidx@sanitizesort\@glo@sort\gls@end@sanitizesort
357 }%
358 }
359 \def\@@gls@noidx@sanitizesort#1#2\gls@end@sanitizesort{%
360   \def\@glo@sort{#1#2}%
361   \onelevel@sanitize\@glo@sort
362 }

oidx@nosanitizesort
363 \newcommand*\@gls@noidx@nosanitizesort{%
364   \ifdefvoid\@glo@sort
365   {}%
366   {}%
367   \expandafter\@@gls@noidx@no@sanitizesort\@glo@sort\gls@end@sanitizesort
368 }%
369 }
370 \def\@@gls@noidx@no@sanitizesort#1#2\gls@end@sanitizesort{%
371   \bgroup
372   \glsnoidxstripaccents
373   \protected@xdef\@@glo@sort{#1#2}%
374   \egroup
375   \let\@glo@sort\@@glo@sort
376 }

lsnoidxstripaccents
377 \newcommand*\glsnoidxstripaccents{%
378   \let\IeC\@firstofone
379   \let\'\@firstofone
380   \let`\@firstofone
381   \let^@\@firstofone
382   \let"\@firstofone
383   \let\u\@firstofone
384   \let\t\@firstofone
385   \let\d\@firstofone
386   \let\r\@firstofone
387   \let=\@firstofone
388   \let.\@firstofone
389   \let~@\firstofone
390   \let\v\@firstofone
391   \let\H\@firstofone
392   \let\c\@firstofone
393   \let\b\@firstofone
394   \def\AE{AE}%
395   \def\ae{ae}%

```

```

396 \def\OE{\OE}%
397 \def\oe{\oe}%
398 \def\AA{\AA}%
399 \def\aa{\aa}%
400 \def\L{\L}%
401 \def\l{\l}%
402 \def\O{\O}%
403 \def\o{\o}%
404 \def\SS{\SS}%
405 \def\ss{\ss}%
406 \def\th{\th}%
407 }

```

Before defining the sanitize package option, The key-value list for the sanitize value needs to be defined. These are all boolean keys. If they are not given a value, assume true.

```

408 \define@boolkey[gls]{sanitize}{description}[true]{%
409   \GlossariesWarning{sanitize={description} package option deprecated}%
410   \ifgls@sanitize@description
411     \glssetnoexpandfield{desc}%
412     \glssetnoexpandfield{descplural}%
413   \else
414     \glssetexpandfield{desc}%
415     \glssetexpandfield{descplural}%
416   \fi
417 }

418 \define@boolkey[gls]{sanitize}{name}[true]{%
419   \GlossariesWarning{sanitize={name} package option deprecated}%
420   \ifgls@sanitize@name
421     \glssetnoexpandfield{name}%
422   \else
423     \glssetexpandfield{name}%
424   \fi
425 }

426 \define@boolkey[gls]{sanitize}{symbol}[true]{%
427   \GlossariesWarning{sanitize={symbol} package option deprecated}%
428   \ifgls@sanitize@symbol
429     \glssetnoexpandfield{symbol}%
430     \glssetnoexpandfield{symbolplural}%
431   \else
432     \glssetexpandfield{symbol}%
433     \glssetexpandfield{symbolplural}%
434   \fi
435 }

sanitizesort
436 \define@boolkey{glossaries.sty}[gls]{sanitizesort}[true]{%
437   \ifglssanitizesort

```

```

438 \glssetnoexpandfield{sortvalue}%
439 \renewcommand*{\@gls@noidx@setsanitizesort}{%
440     \glssanitizesorttrue
441     \glssetnoexpandfield{sortvalue}%
442 }%
443 \else
444     \glssetexpandfield{sortvalue}%
445 \renewcommand*{\@gls@noidx@setsanitizesort}{%
446     \glssanitizesortfalse
447     \glssetexpandfield{sortvalue}%
448 }%
449 \fi
450 }

```

Default setting:

```

451 \glssanitizesorttrue
452 \glssetnoexpandfield{sortvalue}%

```

idx@setsanitizesort Default behaviour for \makenoidxglossaries is sanitizesort=false.

```

453 \newcommand*{\@gls@noidx@setsanitizesort}{%
454     \glssanitizesortfalse
455     \glssetexpandfield{sortvalue}%
456 }%

457 \define@choicekey[gls]{sanitize}{sort}{true, false}[true]{%
458     \setbool{glssanitizesort}{#1}%
459     \ifglssanitizesort
460         \glssetnoexpandfield{sortvalue}%
461     \else
462         \glssetexpandfield{sortvalue}%
463     \fi
464     \GlossariesWarning{sanitize={sort} package option
465     deprecated. Use sanitizesort instead}%
466 }

```

sanitize

```

467 \define@key{glossaries.sty}{sanitize}[description=true, symbol=true, name=true]{%
468     \ifthenelse{\equal{#1}{none}}{%
469         {%
470             \GlossariesWarning{sanitize package option deprecated}%
471             \glssetexpandfield{name}%
472             \glssetexpandfield{symbol}%
473             \glssetexpandfield{symbolplural}%
474             \glssetexpandfield{desc}%
475             \glssetexpandfield{descplural}%
476         }%
477         {%
478             \setkeys[gls]{sanitize}{#1}%
479         }%
480     }%

```

\ifglstranslate As from version 3.13a, the translator package option is a choice rather than boolean option so now need to define conditional:

```
481 \newif\ifglstranslate
```

ls@notranslatorhook

```
482 \newcommand*\@gls@notranslatorhook{}
```

notranslate Provide a synonym for translate=false that can be passed via the document class.

```
483 \@gls@declareoption{notranslate}{%
484   \glstranslatefalse
485   \let\@gls@notranslatorhook\relax
486 }
```

translate Define translate option. If false don't set up multi-lingual support.

```
487 \define@choicekey{glossaries.sty}{translate}[\val\nr]{%
488   {true,false,babel}[true]{%
489     {%
490       \ifcase\nr\relax
491         \glstratetrue
492       \or
493         \glstranslatefalse
494         \let\@gls@notranslatorhook\relax
495       \or
496         \glstranslatefalse
497         \def\@gls@notranslatorhook{\RequirePackage{glossaries-babel}}%
498       \fi
499 }}
```

Set the default value:

```
500 \glstranslatefalse
501 \@ifpackageloaded{translator}{%
502   {\glstratetrue}{%
503     {%
504       \@ifpackageloaded{polyglossia}{%
505         {\glstratetrue}{%
506           {%
507             \@ifpackageloaded{babel}{\glstratetrue}{%
508               {}{%
509 }}
```

indexonlyfirst Set whether to only index on first use.

```
510 \define@boolkey{glossaries.sty}[gls]{indexonlyfirst}[true]{}
511 \glsindexonlyfirstfalse
```

hyperfirst Set whether or not terms should have a hyperlink on first use.

```
512 \define@boolkey{glossaries.sty}[gls]{hyperfirst}[true]{}
513 \glshyperfirsttrue
```

```

\f@glscrstyle Keep track of whether an acronym style has been set (for the benefit of
\setupglossaries):
514 \newcommand*{\f@glscrstyle}{}}

\footnote Set the long form of the acronym in footnote on first use.
515 \define@boolkey{glossaries.sty}[glsacr]{footnote}[true]{%
516   \ifbool{glsacrdescription}{%
517     {}%
518   }{%
519     \renewcommand*{\f@glscrsanitizedesc}{}%
520   }%
521   \renewcommand*{\f@glscrstyle}{\SetAcronymStyle}%
522 }

\description Allow acronyms to have a description (needs to be set using the description key
in the optional argument of \newacronym).
523 \define@boolkey{glossaries.sty}[glsacr]{description}[true]{%
524   \renewcommand*{\f@glscrsanitizesymbol}{}%
525   \renewcommand*{\f@glscrstyle}{\SetAcronymStyle}%
526 }

\smallcaps Define \newacronym to set the short form in small capitals.
527 \define@boolkey{glossaries.sty}[glsacr]{smallcaps}[true]{%
528   \renewcommand*{\f@glscrsanitizesymbol}{}%
529   \renewcommand*{\f@glscrstyle}{\SetAcronymStyle}%
530 }

\smaller Define \newacronym to set the short form using \smaller which obviously
needs to be defined by loading the appropriate package.
531 \define@boolkey{glossaries.sty}[glsacr]{smaller}[true]{%
532   \renewcommand*{\f@glscrsanitizesymbol}{}%
533   \renewcommand*{\f@glscrstyle}{\SetAcronymStyle}%
534 }

\dua Define \newacronym to always use the long forms (i.e. don't use acronyms)
535 \define@boolkey{glossaries.sty}[glsacr]{dua}[true]{%
536   \renewcommand*{\f@glscrsanitizesymbol}{}%
537   \renewcommand*{\f@glscrstyle}{\SetAcronymStyle}%
538 }

\shortcuts Define acronym shortcuts.
539 \define@boolkey{glossaries.sty}[glsacr]{shortcuts}[true]{}}

\glsorder Stores the glossary ordering. This may either be "word" or "letter". This passes
the relevant information to \makeglossaries. The default is word ordering.
540 \newcommand*{\glsorder}{word}

```

\@glsorder The ordering information is written to the auxiliary file for `makeglossaries`, so ignore the auxiliary information.

```
541 \newcommand*{\@glsorder}[1]{}
```

order

```
542 \define@choicekey{glossaries.sty}{order}{word,letter}{%
543   \def\glsorder{\#1}}
```

\ifglsxindy Provide boolean to determine whether `xindy` or `makeindex` will be used to sort the glossaries.

```
544 \newif\ifglsxindy
```

The default is `makeindex`:

```
545 \glsxindyfalse
```

makeindex Define package option to specify that `makeindex` will be used to sort the glossaries:

```
546 \@gls@declareoption{makeindex}{\glsxindyfalse}
```

The `xindy` package option may have a value which in turn can be a key=value list. First define the keys for this sub-list. The boolean `glsnumbers` determines whether to automatically add the `glsnumbers` letter group.

```
547 \define@boolkey[gls]{xindy}{glsnumbers}[true]{}
548 \gls@xindy@glsnumberstrue
```

\@xdy@main@language Define what language to use for each glossary type (if a language is not defined for a particular glossary type the language specified for the main glossary is used.)

```
549 \def\@xdy@main@language{\languagename}%
```

Define key to set the language

```
550 \define@key[gls]{xindy}{language}{\def\@xdy@main@language{\#1}}
```

\gls@codepage Define the code page. If `\inputencodingname` is defined use that, otherwise have initialise with no codepage.

```
551 \ifcsundef{\inputencodingname}{%
552   \def\gls@codepage{}}
553   \def\gls@codepage{\inputencodingname}
554 }
```

Define a key to set the code page.

```
555 \define@key[gls]{xindy}{codepage}{\def\gls@codepage{\#1}}
```

xindy Define package option to specify that `xindy` will be used to sort the glossaries:

```
556 \define@key{glossaries.sty}{xindy}[]{%
557   \glsxindytrue
558   \setkeys[gls]{xindy}{\#1}}
559 }
```

`xindygloss` Provide a synonym for `xindy` that can be passed via the document class options.

```
560 \@gls@declareoption{xindygloss}{%
561   \glsxindytrue
562 }
```

`xindynoglsnumbers` Provide a synonym for `xindy=glsnumbers=false` that can be passed via the document class options.

```
563 \@gls@declareoption{xindynoglsnumbers}{%
564   \glsxindytrue
565   \gls@xindy@glsnumbersfalse
566 }
```

`automake` If this setting is on, automatically run `makeindex/xindy` at the end of the document. Must be used with `\makeglossaries`. Default is false.

```
567 \define@boolkey{glossaries.sty}[gls]{automake}[true]{%
568   \ifglsautomake
569     \renewcommand*{\@gls@doautomake}{%
570       \PackageError{glossaries}{You must use
571         \string\makeglossaries\space with automake=true}
572     }%
573     Either remove the automake=true setting or
574     add \string\makeglossaries\space to your document preamble.%
575   }%
576 }%
577 \else
578   \renewcommand*{\@gls@doautomake}{}%
579 \fi
580 }
581 \glsautomakefalse
```

`\@gls@doautomake`

```
582 \newcommand*{\@gls@doautomake}{}%
583 \AtEndDocument{\@gls@doautomake}
```

`savewrites` The `savewrites` package option is provided to save on the number of write registers.

```
584 \define@boolkey{glossaries.sty}[gls]{savewrites}[true]{%
585   \ifglssavewrites
586     \renewcommand*{\glswritefiles}{\@glswritefiles}%
587   \else
588     \let\glswritefiles\empty
589   \fi
590 }
```

Set default:

```
591 \glssavewritesfalse
592 \let\glswritefiles\empty
```

```

compatible-3.07
593 \define@boolkey{glossaries.sty}[gls]{compatible-3.07}[true]{}
594 \boolfalse{glscompatible-3.07}

compatible-2.07
595 \define@boolkey{glossaries.sty}[gls]{compatible-2.07}[true]{%
  Also set 3.07 compatibility if this option is set.
596   \ifbool{glscompatible-2.07}{%
597     {%
598       \booltrue{glscompatible-3.07}{%
599     }%
600   }%
601 }
602 \boolfalse{glscompatible-2.07}

symbols Create a “symbols” glossary type
603 \@gls@declareoption{symbols}{%
604   \let\@gls@do@symbolsdef\@gls@symbolsdef
605 }

  Default is not to define the symbols glossary:
606 \newcommand*{\@gls@do@symbolsdef}{} 

\@gls@symbolsdef
607 \newcommand*{\@gls@symbolsdef}{%
608   \newglossary[slg]{symbols}{sls}{slo}{\glssymbolsgroupname}{%
609     \newcommand*{\printsymbols}[1][]{\printglossary[type=symbols,\#1]}%
   Define hook to set the toc title when translator is in use.
610   \newcommand*{\gls@tr@set@symbols@toctitle}{%
611     \translatelett{\glossarytoctitle}{Symbols (glossaries)}%
612   }%
613 }

numbers Create a “symbols” glossary type
614 \@gls@declareoption{numbers}{%
615   \let\@gls@do@numbersdef\@gls@numbersdef
616 }

  Default is not to define the numbers glossary:
617 \newcommand*{\@gls@do@numbersdef}{} 

\@gls@numbersdef
618 \newcommand*{\@gls@numbersdef}{%
619   \newglossary[nlg]{numbers}{nls}{nlo}{\glsnumbersgroupname}{%
620     \newcommand*{\printnumbers}[1][]{\printglossary[type=numbers,\#1]}%

```

Define hook to set the toc title when translator is in use.

```
621 \newcommand*{\gls@tr@set@numbers@toctitle}{%
622     \translatelet{\glossarytoctitle}{Numbers (glossaries)}%
623 }%
624 }%
```

index Create an “index” glossary type

```
625 \@gls@declareoption{index}{%
626     \let\@gls@do@indexdef\@gls@indexdef
627 }
```

Default is not to define index glossary:

```
628 \newcommand*{\@gls@do@indexdef}{}%
```

\@gls@indexdef \indexname isn't set by glossaries.

```
629 \newcommand*{\@gls@indexdef}{%
630     \newglossary[ilg]{index}{ind}{idx}{\indexname}%
631     \newcommand*{\printindex}[1][]{\printglossary[type=index,\#1]}%
632     \newcommand*{\newterm}[2][]{%
633         \newglossaryentry{\#2}%
634         {type={index},name={\#2},description={\nopostdesc},\#1}%
635 }%
```

Process package options. First process any options that have been passed via the document class.

```
636 \@for\CurrentOption :=\@declaredoptions\do{%
637     \ifx\CurrentOption\@empty
638     \else
639         \@expandtwoargs
640             \in@ {\, \CurrentOption ,}{, \@classoptionslist, \@curroptions,}%
641     \ifin@
642         \@use@ption
643             \expandafter \let\csname ds@\CurrentOption\endcsname\@empty
644     \fi
645 \fi
646 }
```

Now process options passed to the package:

```
647 \ProcessOptionsX
```

Load backward compatibility stuff:

```
648 \RequirePackage{glossaries-compatible-307}
```

\setupglossaries Provide way to set options after package has been loaded. However, some options must be set before \ProcessOptionsX, so they have to be disabled:

```
649 \disable@keys{glossaries.sty}{compatible-2.07,%
650 xindy,xindygloss,xindynoglsnumbers,makeindex,%
651 acronym,translate,nottranslate,nolong,nosuper,notree,nostyles,nomain}
```

Now define \setupglossaries:

```
652 \newcommand*{\setupglossaries}[1]{%
653   \renewcommand*{\@gls@setacrstyle}{}%
654   \ifglsacrshortcuts
655     \def\@gls@setupshortcuts{\glsacrshortcutstrue}%
656   \else
657     \def\@gls@setupshortcuts{%
658       \ifglsacrshortcuts
659         \DefineAcronymSynonyms
660       \fi
661     }%
662   \fi
663   \glsacrshortcutsfalse
664   \let\@gls@do@numbersdef\relax
665   \let\@gls@do@symbolssdef\relax
666   \let\@gls@do@indexdef\relax
667   \let\@gls@do@acronymsdef\relax
668   \setkeys{glossaries.sty}{#1}%
669   \@gls@setacrstyle
670   \@gls@setupshortcuts
671   \@gls@do@acronymsdef
672   \@gls@do@numbersdef
673   \@gls@do@symbolssdef
674   \@gls@do@indexdef
675 }
```

If package is loaded, check to see if is installed, but only if translation is required.

```
676 \ifglstranslate
677   \@ifpackageloaded{polyglossia}%
678   {%
679     }%
680   {%
681     \@ifpackageloaded{babel}%
682     {%
683       \IfFileExists{translator.sty}%
684       {%
685         \RequirePackage{translator}%
686       }%
687     }%
688   }%
689   {}%
690 }
691 \fi
```

If chapters are defined and the user has requested the section counter as a package option, \@chapter will be modified so that it adds a `section.<n>.0`

target, otherwise entries placed before the first section of a chapter will have undefined links.

The same problem will also occur if a lower sectional unit is used, but this is less likely to happen. If it does, or if you change \glscounter to section later, you will have to specify a different counter for the entries that give rise to a name{\<section-level>} . {n} . 0 non-existent warning (e.g. \gls[counter=chapter]{label}).

```
692 \ifthenelse{\equal{\glscounter}{section}}{%
693 {%
694   \ifcsundef{chapter}{}{%
695     {%
696       \let\@gls@old@chapter\@chapter
697       \def\@chapter[#1]#2{\@gls@old@chapter[{#1}]{#2}}%
698       \ifcsundef{hyperdef}{}{\hyperdef{section}{\thesection}{}{}}{%
699     }%
700   }%
701 }}
```

\@gls@onlypremakeg Some commands only have an effect when used before \makeglossaries. So define a list of commands that should be disabled after \makeglossaries

```
702 \newcommand*{\@gls@onlypremakeg}{}%
```

\@onlypremakeg Adds the specified control sequence to the list of commands that must be disabled after \makeglossaries.

```
703 \newcommand*{\@onlypremakeg}[1]{%
704   \ifx\@gls@onlypremakeg\empty
705     \def\@gls@onlypremakeg{\#1}%
706   \else
707     \expandafter\toks@\expandafter{\@gls@onlypremakeg}%
708     \edef\@gls@onlypremakeg{\the\toks@,\noexpand\#1}%
709   \fi
710 }
```

\@disable@onlypremakeg Disable all commands listed in \@gls@onlypremakeg

```
711 \newcommand*{\@disable@onlypremakeg}{}%
712 \cfor{\thiscs}{\@gls@onlypremakeg}{\do{%
713   \expandafter\@disable@premakecs\@thiscs}%
714 }}
```

\@disable@premakecs Disables the given command.

```
715 \newcommand*{\@disable@premakecs}[1]{%
716   \def#1{\PackageError{glossaries}{\string#1\space may only be
717   used before \string\makeglossaries}{You can't use
718   \string#1\space after \string\makeglossaries}}%
719 }
```

1.3 Default values

This section sets up default values that are used by this package. Some of the names may already be defined (e.g. by) so \providecommand is used.

Main glossary title:

```
\glossaryname  
720 \providecommand*{\glossaryname}{Glossary}
```

The title for the acronym glossary type (which is defined if acronym package option is used) is given by \acronymname. If the acronym package option is not used, \acronymname won't be used.

```
\acronymname  
721 \providecommand*{\acronymname}{Acronyms}
```

\glssettoctitle Sets the TOC title for the given glossary.

```
722 \newcommand*{\glssettoctitle}[1]{%  
723 \def\glossarytoctitle{\csname @gloctype@#1@title\endcsname}}
```

The following commands provide text for the headers used by some of the tabular-like glossary styles. Whether or not they get used in the glossary depends on the glossary style.

```
\entryname  
724 \providecommand*{\entryname}{Notation}
```

```
\descriptionname  
725 \providecommand*{\descriptionname}{Description}
```

```
\symbolname  
726 \providecommand*{\symbolname}{Symbol}
```

```
\pagelistname  
727 \providecommand*{\pagelistname}{Page List}
```

Labels for makeindex's symbol and number groups:

```
glssymbolsgroupname  
728 \providecommand*{\glssymbolsgroupname}{Symbols}
```

```
glsnumbersgroupname  
729 \providecommand*{\glsnumbersgroupname}{Numbers}
```

\glspluralsuffix The default plural is formed by appending \glspluralsuffix to the singular form.

```
730 \newcommand*{\glspluralsuffix}{s}
```

```
\seename  
731 \providecommand*{\seename}{see}
```

```
\andname  
732 \providecommand*{\andname}{\&}
```

Add multi-lingual support. Thanks to everyone who contributed to the translations from both `comp.text.tex` and via email.

`dglossarytocaptions` If using `\glossaryname` should be defined in terms of `\translate`, but if `babel` is also loaded, it will redefine `\glossaryname` whenever the language is set, so override it. (Don't use `\addto` as it doesn't define it.)

```
733 \newcommand*{\addglossarytocaptions}[1]{%  
734   \ifcsundef{captions#1}{}%  
735   {  
736     \expandafter\let\expandafter\@gls@tmp\csname captions#1\endcsname  
737     \expandafter\toks@\expandafter{\@gls@tmp  
738       \renewcommand*{\glossaryname}{\translate{Glossary}}%  
739     }%  
740     \expandafter\edef\csname captions#1\endcsname{\the\toks@}%  
741   }%  
742 }
```

```
743 \ifglstranslate
```

If is not install, used standard captions, otherwise load dictionary.

```
744   @ifpackageloaded{translator}{%  
745     \usedictionary{glossaries-dictionary}%  
746     \addglossarytocaptions{portuges}%  
747     \addglossarytocaptions{portuguese}%  
748     \addglossarytocaptions{brazil}%  
749     \addglossarytocaptions{brazilian}%  
750     \addglossarytocaptions{danish}%  
751     \addglossarytocaptions{dutch}%  
752     \addglossarytocaptions{afrikaans}%  
753     \addglossarytocaptions{english}%  
754     \addglossarytocaptions{UKenglish}%  
755     \addglossarytocaptions{USenglish}%  
756     \addglossarytocaptions{american}%  
757     \addglossarytocaptions{australian}%  
758     \addglossarytocaptions{british}%  
759     \addglossarytocaptions{canadian}%  
760     \addglossarytocaptions{newzealand}%  
761     \addglossarytocaptions{french}%  
762     \addglossarytocaptions{frenchb}%  
763     \addglossarytocaptions{francais}%  
764     \addglossarytocaptions{acadian}%  
765     \addglossarytocaptions{canadien}%  
766     \addglossarytocaptions{german}%
```

```

767 \addglossarytocaptions{germanb}%
768 \addglossarytocaptions{austrian}%
769 \addglossarytocaptions{naustrian}%
770 \addglossarytocaptions{ngerman}%
771 \addglossarytocaptions{irish}%
772 \addglossarytocaptions{italian}%
773 \addglossarytocaptions{magyar}%
774 \addglossarytocaptions{hungarian}%
775 \addglossarytocaptions{polish}%
776 \addglossarytocaptions{spanish}%
777 \renewcommand*{\glsettoctitle}[1]{%
778   \ifcsdef{gls@tr@set@#1@toctitle}{}{%
779     {%
780       \csuse{gls@tr@set@#1@toctitle}%
781     }%
782     {%
783       \def\glossarytoctitle{\csname @glotype@#1@title\endcsname}%
784     }%
785   }%
786   \renewcommand*{\glossaryname}{\translate{Glossary}}%
787   \renewcommand*{\acronymname}{\translate{Acronyms}}%
788   \renewcommand*{\entryname}{\translate{Notation (glossaries)}}%
789   \renewcommand*{\descriptionname}{%
790     \translate{Description (glossaries)}}%
791   \renewcommand*{\symbolname}{\translate{Symbol (glossaries)}}%
792   \renewcommand*{\pagelistname}{%
793     \translate{Page List (glossaries)}}%
794   \renewcommand*{\glssymbolsgroupname}{%
795     \translate{Symbols (glossaries)}}%
796   \renewcommand*{\glsnumbersgroupname}{%
797     \translate{Numbers (glossaries)}}%
798 }{%
799   \@ifpackageloaded{polyglossia}{}{%
800     \RequirePackage{glossaries-polyglossia}%
801   }%
802   \@ifpackageloaded{babel}{}{%
803     \RequirePackage{glossaries-babel}{}%
804   }%
805 }%
806 \gls@notranslatorhook
807 \fi

```

\nopostdesc Provide a means to suppress description terminator for a given entry. (Useful for entries with no description.) Has no effect outside the glossaries.

```
808 \DeclareRobustCommand*{\nopostdesc}{}{}
```

\@nopostdesc Suppress next description terminator.

```

809 \newcommand*{\@nopostdesc}{%
810   \let\org@glspostdescription\glspostdescription
811   \def\glspostdescription{%
812     \let\glspostdescription\org@glspostdescription}%
813 }

\@no@post@desc Used for comparison purposes.
814 \newcommand*{\@no@post@desc}{\@nopostdesc}

\glspar Provide means of having a paragraph break in glossary entries
815 \newcommand{\glspar}{\par}

\setStyleFile Sets the style file. The relevant extension is appended.
816 \newcommand{\setStyleFile}[1]{%
817   \renewcommand*{\gls@istfilebase}{#1}%
Just in case \istfilename has been modified.
818   \ifglsxindy
819     \def\istfilename{\gls@istfilebase.xdy}
820   \else
821     \def\istfilename{\gls@istfilebase.ist}
822   \fi
823 }

This command only has an effect prior to using \makeglossaries.
824 \@onlypremakeg\setStyleFile

The name of the makeindex or xindy style file is given by \istfilename.
This file is created by \writeist (which is used by \makeglossaries) so re-
defining this command will only have an effect if it is done before \makeglossaries.
As from v1.17, use \setStyleFile instead of directly redefining \istfilename.

\istfilename
825 \ifglsxindy
826   \def\istfilename{\gls@istfilebase.xdy}
827 \else
828   \def\istfilename{\gls@istfilebase.ist}
829 \fi

\gls@istfilebase
830 \newcommand*{\gls@istfilebase}{\jobname}

The makeglossaries Perl script picks up this name from the auxiliary file. If
the name ends with .xdy it calls xindy otherwise it calls makeindex. Since its
not required by LATEX, \@istfilename ignores its argument.

\@istfilename
831 \newcommand*{\@istfilename}[1]{}

```

This command is the value of the `page_compositor` `makeindex` key. Again, any redefinition of this command must take place *before* `\writeist` otherwise it will have no effect. As from 1.17, use `\glsSetCompositor` instead of directly redefining `\glscompositor`.

```
\glscompositor
832 \newcommand*{\glscompositor}{.}
```

`\glsSetCompositor` Sets the compositor.

```
833 \newcommand*{\glsSetCompositor}[1]{%
834   \renewcommand*{\glscompositor}{#1}}
```

Only use before `\makeglossaries`

```
835 \@onlypremakeg\glsSetCompositor
```

(The page compositor is usually defined as a dash when using `makeindex`, but most of the standard counters used by L^AT_EX use a full stop as the compositor, which is why I have used it as the default.) If `xindy` is used `\glscompositor` only affects the `arabic-page-numbers` location class.

`@glsAlphacompositor` This is only used by `xindy`. It specifies the compositor to use when location numbers are in the form `<letter><compositor><number>`. For example, if `\glsAlphacompositor` is set to `“.”` then it allows locations such as `A.1` whereas if `\glsAlphacompositor` is set to `“-”` then it allows locations such as `A-1`.

```
836 \newcommand*{\@glsAlphacompositor}{\glscompositor}
```

`\glsSetAlphaCompositor` Sets the alpha compositor.

```
837 \ifglsxindy
838   \newcommand*{\glsSetAlphaCompositor}[1]{%
839     \renewcommand*{\@glsAlphacompositor}{#1}}
840 \else
841   \newcommand*{\glsSetAlphaCompositor}[1]{%
842     \glsnoxindywarning\glsSetAlphaCompositor}
843 \fi
```

Can only be used before `\makeglossaries`

```
844 \@onlypremakeg\glsSetAlphaCompositor
```

`\gls@suffixF` Suffix to use for a two page list. This overrides the separator and the closing page number if set to something other than an empty macro.

```
845 \newcommand*{\gls@suffixF}{}{}
```

`\glsSetSuffixF` Sets the suffix to use for a two page list.

```
846 \newcommand*{\glsSetSuffixF}[1]{%
847   \renewcommand*{\gls@suffixF}{#1}}
```

Only has an effect when used before `\makeglossaries`

```
848 \@onlypremakeg\glsSetSuffixF
```

\gls@suffixFF Suffix to use for a three page list. This overrides the separator and the closing page number if set to something other than an empty macro.

```
849 \newcommand*\gls@suffixFF{}
```

\glsSetSuffixFF Sets the suffix to use for a three page list.

```
850 \newcommand*\glsSetSuffixFF[1]{%
851   \renewcommand*\gls@suffixFF{\#1}%
852 }
```

\glsnumberformat The command \glsnumberformat indicates the default format for the page numbers in the glossary. (Note that this is not the same as \glossaryentrynumbers, but applies to individual numbers or groups of numbers within an entry's associated number list.) If hyperlinks are defined, it will use \glshypernumber, otherwise it will simply display its argument "as is".

```
853 \ifcsundef{hyperlink}%
854 {%
855   \newcommand*\glsnumberformat[1]{\#1}%
856 }%
857 {%
858   \newcommand*\glsnumberformat[1]{\glshypernumber{\#1}}%
859 }
```

Individual numbers in an entry's associated number list are delimited using \delimN (which corresponds to the `delim_n` `makeindex` keyword). The default value is a comma followed by a space.

\delimN

```
860 \newcommand{\delimN}{, }
```

A range of numbers within an entry's associated number list is delimited using \delimR (which corresponds to the `delim_r` `makeindex` keyword). The default is an en-dash.

\delimR

```
861 \newcommand{\delimR}{--}
```

The glossary preamble is given by \glossarypreamble. This will appear after the glossary sectioning command, and before the `theglossary` environment. It is designed to allow the user to add information pertaining to the glossary (e.g. "page numbers in italic indicate the primary definition") therefore \glossarypreamble shouldn't be affected by the glossary style. (So if you define your own glossary style, don't have it change \glossarypreamble.) The preamble is empty by default. If you have multiple glossaries, and you want a different preamble for each glossary, you will need to use \printglossary for each glossary type, instead of \printglossaries, and redefine \glossarypreamble before each \printglossary.

```
\glossarypreamble
862 \newcommand*{\glossarypreamble}{%
863   \csuse{@glossarypreamble@\currentglossary}%
864 }
```

```
\setglossarypreamble {\setglossarypreamble[<type>]{<text>}}
```

Code provided by Michael Pock.

```
865 \newcommand{\setglossarypreamble}[2][\glsdefaulttype]{%
866   \ifglossaryexists{#1}{%
867     \csgdef{@glossarypreamble@#1}{#2}%
868   }{%
869     \GlossariesWarning{%
870       Glossary '#1' is not defined%
871     }%
872   }%
873 }
```

The glossary postamble is given by `\glossarypostamble`. This is provided to allow the user to add something after the end of the `\glossary` environment (again, this shouldn't be affected by the glossary style). It is, of course, possible to simply add the text after `\printglossary`, but if you only want the postamble to appear after the first glossary, but not after subsequent glossaries, you can do something like:

```
\renewcommand{\glossarypostamble}{For a complete list of terms
see \cite{blah}\gdef\glossarypreamble{}}
```

```
\glossarypostamble
874 \newcommand*{\glossarypostamble}{}
```

`\glossarysection` The sectioning command that starts a glossary is given by `\glossarysection`. (This does not form part of the glossary style, and so should not be changed by a glossary style.) If `\phantomsection` is defined, it uses `\p@glossarysection`, otherwise it uses `\@glossarysection`.

```
875 \newcommand*{\glossarysection}[2][\@gls@title]{%
876   \def\@gls@title{#2}%
877   \ifcsundef{phantomsection}%
878   {}%
879   {\@glossarysection{#1}{#2}%
880   }%
881   {}%
882   {\@p@glossarysection{#1}{#2}%
883   }%
884   \glsglossarymark{\glossarytoctitle}%
885 }
```

```

\glsglossarymark Sets the header mark for the glossary. Takes the glossary short (TOC) title as the
argument.
886 \ifcsundef{glossarymark}%
887 {%
888   \newcommand{\glsglossarymark}[1]{\glossarymark{#1}}
889 }%
890 {%
891   \@ifclassloaded{memoir}%
892   {%
893     \newcommand{\glsglossarymark}[1]{%
894       \ifglsucmark
895         \markboth{\memUhead{#1}}{\memUhead{#1}}%
896       \else
897         \markboth{#1}{#1}%
898       \fi
899     }
900   }%
901 {%
902   \newcommand{\glsglossarymark}[1]{%
903     \ifglsucmark
904       \mkboth{\mfirstucMakeUppercase{#1}}{\mfirstucMakeUppercase{#1}}%
905     \else
906       \mkboth{#1}{#1}%
907     \fi
908   }
909 }
910 }

```

\glossarymark Provided for backward compatibility:

```

911 \providetcommand{\glossarymark}[1]{%
912   \ifglsucmark
913     \mkboth{\mfirstucMakeUppercase{#1}}{\mfirstucMakeUppercase{#1}}%
914   \else
915     \mkboth{#1}{#1}%
916   \fi
917 }

```

The required sectional unit is given by \@@glossarysec which was defined by the section package option. The starred form of the command is chosen. If you don't want any sectional command, you will need to redefine \glossarysection. The sectional unit can be changed, if different sectional units are required.

\setglossarysection

```

918 \newcommand*{\setglossarysection}[1]{%
919 \setkeys{glossaries.sty}{section=#1}}

```

The command \@glossarysection indicates how to start the glossary section if \phantomsection is not defined.

```

\@glossarysection
920 \newcommand*{\@glossarysection}[2]{%
921   \ifdefempty\@@glossarysecstar
922   {%
923     \csname\@@glossarysec\endcsname[#1]{#2}%
924   }%
925   {%
926     \csname\@@glossarysec\endcsname*{#2}%
927     \gls@toc{#1}{\@@glossarysec}%
928   }%
929   \@@glossaryseclabel
930 }

```

Do automatic labelling if required

As `\@glossarysection`, but put in `\phantomsection`, and swap where `\gls@toc` goes. If using chapters do a `\clearpage`. This ensures that the hyper link from the table of contents leads to the line above the heading, rather than the line below it.

```

\@p@glossarysection
931 \newcommand*{\@p@glossarysection}[2]{%
932   \glsclearpage
933   \phantomsection
934   \ifdefempty\@@glossarysecstar
935   {%
936     \csname\@@glossarysec\endcsname{#2}%
937   }%
938   {%
939     \gls@toc{#1}{\@@glossarysec}%
940     \csname\@@glossarysec\endcsname*{#2}%
941   }%
942   \@@glossaryseclabel
943 }

```

Do automatic labelling if required

`\gls@doclearpage` The `\gls@doclearpage` command is used to issue a `\clearpage` (or `\cleardoublepage`) depending on whether the glossary sectional unit is a chapter. If the sectional unit is something else, do nothing.

```

944 \newcommand*{\gls@doclearpage}{%
945   \ifthenelse{\equal{\@@glossarysec}{chapter}}{%
946   {%
947     \ifcsundef{cleardoublepage}{%
948     {%
949       \clearpage
950     }%
951     {%
952       \ifcsdef{if@openright}{%

```

```

953      {%
954          \if@openright
955              \cleardoublepage
956          \else
957              \clearpage
958          \fi
959      }%
960      {%
961          \cleardoublepage
962      }%
963      }%
964  }%
965  {}%
966 }

```

\glsclearpage This just calls \gls@doclearpage, but it makes it easier to have a user command so that the user can override it.

```
967 \newcommand*{\glsclearpage}{\gls@doclearpage}
```

The glossary is added to the table of contents if glstoc flag set. If it is set, \gls@toc will add a line to the .toc file, otherwise it will do nothing. (The first argument to \gls@toc is the title for the table of contents, the second argument is the sectioning type.)

```
\@gls@toc
968 \newcommand*{\@gls@toc}[2]{%
969     \ifglstoc
970         \ifglsnumberline
971             \addcontentsline{toc}{#2}{\numberline{}#1}%
972         \else
973             \addcontentsline{toc}{#2}{#1}%
974         \fi
975     \fi
976 }
```

1.4 Xindy

This section defines commands that only have an effect if xindy is used to sort the glossaries.

\glsnoxindywarning Issues a warning if xindy hasn't been specified. These warnings can be suppressed by redefining \glsnoxindywarning to ignore its argument

```
977 \newcommand*{\glsnoxindywarning}[1]{%
978     \GlossariesWarning{Not in xindy mode --- ignoring \string#1}%
979 }
```

\@xdyattributes Define list of attributes (\string is used in case the double quote character has been made active)

```

980 \ifglsxindy
981   \edef\@xdyattributes{\string"default\string"}%
982 \fi

\@xdyattributelist Comma-separated list of attributes.
983 \ifglsxindy
984   \edef\@xdyattributelist{}%
985 \fi

\@xdylocref Define list of markup location references.
986 \ifglsxindy
987   \def\@xdylocref{}%
988 \fi

\@gls@ifinlist
989 \newcommand*\@gls@ifinlist}[4]{%
990   \def\@do@ifinlist##1,#1,#2\end@doifinlist{%
991     \def\@gls@listsuffix{##2}%
992     \ifx\@gls@listsuffix\@empty
993       #4%
994     \else
995       #3%
996     \fi
997   }%
998   \@do@ifinlist,#2,#1,\end@doifinlist
999 }

\GlsAddXdyCounters Need to know all the counters that will be used in location numbers for Xindy.
Argument may be a single counter name or a comma-separated list of counter
names.
1000 \ifglsxindy
1001   \newcommand*\@xdycounters}{\glscounter}
1002   \newcommand*\GlsAddXdyCounters[1]{%
1003     \@for\@gls@ctr:=#1\do{%
      Check if already in list before adding.
1004       \edef\@do@addcounter{%
1005         \noexpand\@gls@ifinlist{\@gls@ctr}{\@xdycounters}{}%
1006       }%
1007         \noexpand\edef\noexpand\@xdycounters{\@xdycounters,%
1008           \noexpand\@gls@ctr}%
1009       }%
1010     }%
1011     \@do@addcounter
1012   }
1013 }

Only has an effect before \writeist:
1014  \@onlypremakeg\GlsAddXdyCounters

```

```

1015 \else
1016   \newcommand*\GlsAddXdyCounters[1]{%
1017     \glsnoxindywarning\GlsAddXdyAttribute
1018   }
1019 \fi

d@glsaddxdycounters Counters must all be identified before adding attributes.

1020 \newcommand*@\disabled@glsaddxdycounters{%
1021   \PackageError{glossaries}{\string\GlsAddXdyCounters\space
1022   can't be used after \string\GlsAddXdyAttribute}{Move all
1023   occurrences of \string\GlsAddXdyCounters\space before the first
1024   instance of \string\GlsAddXdyAttribute}%
1025 }

\GlsAddXdyAttribute Adds an attribute.

1026 \ifglsxindy

  First define internal command that adds an attribute for a given counter (2nd
  argument is the counter):
  1027 \newcommand*@\glsaddxdyattribute[2]{%
    Add to xindy attribute list
    1028   \edef@\xdyattributes{\@xdyattributes ^\J \string"#1\string" ^\J
    1029     \string"#2#1\string"}%
    Add to xindy markup location.
    1030   \expandafter\toks@\expandafter{\@xdylocref}%
    1031   \edef@\xdylocref{\the\toks@ ^\J%
    1032     (markup-locref
    1033       :open \string"\glstildechar n%
    1034         \expandafter\string\csname glsX#2X#1\endcsname
    1035         \string" ^\J
    1036       :close \string"\string" ^\J
    1037       :attr \string"#2#1\string"})}%
    Define associated attribute command \glsX<counter>X<attribute>{<Hprefix>}{<n>}
    1038   \expandafter\gdef\csname glsX#2X#1\endcsname##1##2{%
    1039     \setentrycounter[##1]{##2}\csname #1\endcsname{##2}%
    1040   }%
    1041 }

  High-level command:
  1042 \newcommand*@\GlsAddXdyAttribute[1]{%
    Add to comma-separated attribute list
    1043   \ifx@\xdyattributelist\empty
    1044     \edef@\xdyattributelist{\#1}%
    1045   \else
    1046     \edef@\xdyattributelist{@xdyattributelist,\#1}%
    1047   \fi

```

Iterate through all specified counters and add counter-dependent attributes:

```
1048     \@for\@this@counter:=\@xdycounters\do{%
1049         \protected@edef\gls@do@addxdyattribute{%
1050             \noexpand\@glsaddxdyattribute{\#1}{\@this@counter}%
1051         }%
1052         \gls@do@addxdyattribute
1053     }%
```

All occurrences of \GlsAddXdyCounters must be used before this command

```
1054     \let\GlsAddXdyCounters\@disabled@glsaddxdycounters
1055 }
```

Only has an effect before \writeist:

```
1056     \@onlypremakeg\GlsAddXdyAttribute
1057 \else
1058     \newcommand*\GlsAddXdyAttribute[1]{%
1059         \glsnoxindywarning\GlsAddXdyAttribute}
1060 \fi
```

redefinedattributes Add known attributes for all defined counters

```
1061 \ifglsxindy
1062 \newcommand*{\@gls@addpredefinedattributes}{%
1063     \GlsAddXdyAttribute{glsnumberformat}
1064     \GlsAddXdyAttribute{textrm}
1065     \GlsAddXdyAttribute{textsf}
1066     \GlsAddXdyAttribute{texttt}
1067     \GlsAddXdyAttribute{textbf}
1068     \GlsAddXdyAttribute{textmd}
1069     \GlsAddXdyAttribute{textit}
1070     \GlsAddXdyAttribute{textup}
1071     \GlsAddXdyAttribute{textsl}
1072     \GlsAddXdyAttribute{textsc}
1073     \GlsAddXdyAttribute{emph}
1074     \GlsAddXdyAttribute{glshypernumber}
1075     \GlsAddXdyAttribute{hyperrm}
1076     \GlsAddXdyAttribute{hypersf}
1077     \GlsAddXdyAttribute{hypertt}
1078     \GlsAddXdyAttribute{hyperbf}
1079     \GlsAddXdyAttribute{hypermd}
1080     \GlsAddXdyAttribute{hyperit}
1081     \GlsAddXdyAttribute{hyperup}
1082     \GlsAddXdyAttribute{hypersl}
1083     \GlsAddXdyAttribute{hypersc}
1084     \GlsAddXdyAttribute{hyperemph}
1085 }
1086 \else
1087     \let\@gls@addpredefinedattributes\relax
1088 \fi
```

\@xdyuseralphabets List of additional alphabets

```
1089 \def\@xdyuseralphabets{}
```

\GlsAddXdyAlphabet \GlsAddXdyAlphabet{\<name>}{\<definition>} adds a new alphabet called \<name>. The definition must use xindy syntax.

```
1090 \ifglsxindy
1091   \newcommand*{\GlsAddXdyAlphabet}[2]{%
1092     \edef\@xdyuseralphabets{%
1093       \@xdyuseralphabets ^~J
1094       (define-alphabet "#1" (#2))}%
1095   }%
1096   \newcommand*{\glsnoxindywarning}{\GlsAddXdyAlphabet}%
1098 \fi
```

This code is only required for xindy:

```
1099 \ifglsxindy
```

\ls@xdy@locationlist List of predefined location names.

```
1100 \newcommand*{\@gls@xdy@locationlist}{%
1101   roman-page-numbers,%
1102   Roman-page-numbers,%
1103   arabic-page-numbers,%
1104   alpha-page-numbers,%
1105   Alpha-page-numbers,%
1106   Appendix-page-numbers,%
1107   arabic-section-numbers%
1108 }
```

Each location class \<name> has the format stored in \@gls@xdy@Lclass@\<name>. Set up predefined formats.

@roman-page-numbers Lower case Roman numerals (i, ii, ...). In the event that \roman has been redefined to produce a fancy form of roman numerals, attempt to work out how it will be written to the output file.

```
1109 \protected\edef\@gls@roman{\@roman{0\string"
1110   \string"roman-numbers-lowercase\string" :sep \string"}}%
1111 \onelevel@sanitize\@gls@roman
1112 \edef\@tmp{\string" \string"roman-numbers-lowercase\string"
1113   :sep \string"}%
1114 \onelevel@sanitize\@tmp
1115 \ifx\@tmp\@gls@roman
1116   \expandafter
1117   \edef\csname @gls@xdy@Lclass@roman-page-numbers\endcsname{%
1118     \string"roman-numbers-lowercase\string"%
1119   }%
1120 \else
1121   \expandafter
1122   \edef\csname @gls@xdy@Lclass@roman-page-numbers\endcsname{%
```

```

1123           :sep \string"\@gls@roman\string"%
1124       }%
1125   \fi

@Roman-page-numbers  Upper case Roman numerals (I, II, ...).
1126   \expandafter\def\csname @gls@xdy@Lclass@Roman-page-numbers\endcsname{%
1127     \string"roman-numbers-uppercase\string"%
1128   }%

arabic-page-numbers  Arabic numbers (1, 2, ...).
1129   \expandafter\def\csname @gls@xdy@Lclass@arabic-page-numbers\endcsname{%
1130     \string"arabic-numbers\string"%
1131   }%

@alpha-page-numbers  Lower case alphabetical (a, b, ...).
1132   \expandafter\def\csname @gls@xdy@Lclass@alpha-page-numbers\endcsname{%
1133     \string"alpha\string"%
1134   }%

@Alpha-page-numbers  Upper case alphabetical (A, B, ...).
1135   \expandafter\def\csname @gls@xdy@Lclass@Alpha-page-numbers\endcsname{%
1136     \string"ALPHA\string"%
1137   }%

appendix-page-numbers Appendix style locations (e.g. A-1, A-2, ..., B-1, B-2, ...). The separator is given
by \@glsAlphacompositor.
1138   \expandafter\def\csname @gls@xdy@Lclass@Appendix-page-numbers\endcsname{%
1139     \string"ALPHA\string"
1140     :sep \string"\@glsAlphacompositor\string"
1141     \string"arabic-numbers\string"%
1142   }%

bic-section-numbers  Section number style locations (e.g. 1.1, 1.2, ...). The compositor is given by
\glscompositor.
1143   \expandafter\def\csname @gls@xdy@Lclass@arabic-section-numbers\endcsname{%
1144     \string"arabic-numbers\string"
1145     :sep \string"\glscompositor\string"
1146     \string"arabic-numbers\string"%
1147   }%

xdyuserlocationdefs  List of additional location definitions (separated by ^J)
1148   \def@\xdyuserlocationdefs{[]}

xdyuserlocationnames  List of additional user location names
1149   \def@\xdyuserlocationnames{[]}

      End of xindy-only block:
1150 \fi

```

\GlsAddXdyLocation \GlsAddXdyLocation[*prefix-loc*]{*name*}{*definition*} Define a new location called *name*. The definition must use xindy syntax. (Note that this doesn't check to see if the location is already defined. That is left to xindy to complain about.)

```

1151 \ifglsxindy
1152   \newcommand*{\GlsAddXdyLocation}[3][]{%
1153     \def\@gls@tmp{#1}%
1154     \ifx\@gls@tmp\empty%
1155       \edef\@xdyuserlocationdefs{%
1156         \@xdyuserlocationdefs ^^J%
1157         (define-location-class \string"##2\string"^^J\space\space
1158           \space(:sep \string"{}"\glsopenbrace\string" #3
1159             :sep \string"\glsclosebrace\string"))
1160       }%
1161     \else
1162       \edef\@xdyuserlocationdefs{%
1163         \@xdyuserlocationdefs ^^J%
1164         (define-location-class \string"##2\string"^^J\space\space
1165           \space(:sep "\glsopenbrace"
1166             #1
1167             :sep "\glsclosebrace\glsopenbrace" #3
1168             :sep "\glsclosebrace"))
1169       }%
1170     \fi
1171   \edef\@xdyuserlocationnames{%
1172     \@xdyuserlocationnames^^J\space\space\space\space
1173     \string"#1\string"}%
1174 }
```

Only has an effect before \writeist:

```

1175  \@onlypremakeg\GlsAddXdyLocation
1176 \else
1177   \newcommand*{\GlsAddXdyLocation}[2]{%
1178     \glsnoxindywarning\GlsAddXdyLocation}
1179 \fi
```

ylocationclassorder Define location class order

```

1180 \ifglsxindy
1181   \edef\@xdylocationclassorder{^^J\space\space\space
1182     \string"roman-page-numbers\string"^^J\space\space\space
1183     \string"arabic-page-numbers\string"^^J\space\space\space
1184     \string"arabic-section-numbers\string"^^J\space\space\space
1185     \string"alpha-page-numbers\string"^^J\space\space\space
1186     \string"Roman-page-numbers\string"^^J\space\space\space
1187     \string"Alpha-page-numbers\string"^^J\space\space\space
1188     \string"Appendix-page-numbers\string"
1189   \@xdyuserlocationnames^^J\space\space\space
1190   \string"see\string"
1191 }
```

```
1192 \fi
```

Change the location order.

\LocationClassOrder

```
1193 \ifglsxindy
1194   \newcommand*\GlsSetXdyLocationClassOrder[1]{%
1195     \def\@xdylocationclassorder{\#1}}
1196 \else
1197   \newcommand*\GlsSetXdyLocationClassOrder[1]{%
1198     \glsnoxindywarning\GlsSetXdyLocationClassOrder}
1199 \fi
```

\@xdysortrules Define sort rules

```
1200 \ifglsxindy
1201   \def\@xdysortrules{}
1202 \fi
```

\GlsAddSortRule Add a sort rule

```
1203 \ifglsxindy
1204   \newcommand*\GlsAddSortRule[2]{%
1205     \expandafter\toks@\expandafter{\@xdysortrules}%
1206     \protected@edef\@xdysortrules{\the\toks@ ^^J
1207       (sort-rule \string"#1\string" \string"#2\string")}%
1208   }
1209 \else
1210   \newcommand*\GlsAddSortRule[2]{%
1211     \glsnoxindywarning\GlsAddSortRule}
1212 \fi
```

\@xdyrequiredstyles Define list of required styles (this should be a comma-separated list of xindy styles)

```
1213 \ifglsxindy
1214   \def\@xdyrequiredstyles{tex}
1215 \fi
```

\GlsAddXdyStyle Add a xindy style to the list of required styles

```
1216 \ifglsxindy
1217   \newcommand*\GlsAddXdyStyle[1]{%
1218     \edef\@xdyrequiredstyles{\@xdyrequiredstyles,#1}}%
1219 \else
1220   \newcommand*\GlsAddXdyStyle[1]{%
1221     \glsnoxindywarning\GlsAddXdyStyle}
1222 \fi
```

\GlsSetXdyStyles Reset the list of required styles

```
1223 \ifglsxindy
1224   \newcommand*\GlsSetXdyStyles[1]{%
```

```

1225     \edef\xdyrequiredstyles{\#1}
1226 \else
1227   \newcommand*\GlsSetXdyStyles[1]{%
1228     \glsnoxindywarning\GlsSetXdyStyles}
1229 \fi

```

\findrootlanguage This used to determine the root language, using a bit of trickery since babel doesn't supply the information, but now that babel is once again actively maintained, we can't do this any more, so \findrootlanguage is no longer available. Now provide a command that does nothing (in case it's been patched), but this may be removed completely in the future.

```
1230 \newcommand*{\findrootlanguage}{}{}
```

\@xdylanguage The xindy language setting is required by `makeglossaries`, so provide a command for `makeglossaries` to pick up the information from the auxiliary file. This command is not needed by the `glossaries` package, so define it to ignore its arguments.

```
1231 \def\@xdylanguage#1#2{}
```

\GlsSetXdyLanguage Define a command that allows the user to set the language for a given glossary type. The first argument indicates the glossary type. If omitted the main glossary is assumed.

```

1232 \ifglsxindy
1233   \newcommand*\GlsSetXdyLanguage[2][\glsdefaulttype]{%
1234     \ifglossaryexists{\#1}{%
1235       \expandafter\def\csname xdy@\#1@language\endcsname{\#2}%
1236     }{%
1237       \PackageError{glossaries}{Can't set language type for
1238         glossary type '#1' --- no such glossary}{%
1239           You have specified a glossary type that doesn't exist}}}
1240 \else
1241   \newcommand*\GlsSetXdyLanguage[2][]{%
1242     \glsnoxindywarning\GlsSetXdyLanguage}
1243 \fi

```

\@gls@codepage The xindy codepage setting is required by `makeglossaries`, so provide a command for `makeglossaries` to pick up the information from the auxiliary file. This command is not needed by the `glossaries` package, so define it to ignore its arguments.

```
1244 \def\@gls@codepage#1#2{}
```

\GlsSetXdyCodePage Define command to set the code page.

```

1245 \ifglsxindy
1246   \newcommand*{\GlsSetXdyCodePage}[1]{%
1247     \renewcommand*{\gls@codepage}{\#1}%
1248   }

```

Suggested by egreg:

```
1249  \AtBeginDocument{%
1250    \ifx\gls@codepage\empty
1251      \@ifpackageloaded{fontspec}{\def\gls@codepage{utf8}}{}%
1252    \fi
1253  }
1254 \else
1255   \newcommand*\GlsSetXdyCodePage[1]{%
1256     \glsnoxindywarning\GlsSetXdyCodePage}
1257 \fi
```

\@xdylettergroups Store letter group definitions.

```
1258 \ifglsxindy
1259   \ifgls@xindy@glsnumbers
1260     \def@\xdylettergroups{(\define-letter-group
1261       \string"glsnr"\string"^\^J\space\space\space
1262       :prefixes (\string"0\string" \string"1\string"
1263         \string"2\string" \string"3\string" \string"4\string"
1264         \string"5\string" \string"6\string" \string"7\string"
1265         \string"8\string" \string"9\string")^\^J\space\space\space
1266       :before \string"\@glsfirstletter\string")}
1267   \else
1268     \def@\xdylettergroups{}
1269   \fi
1270 \fi
```

\GlsAddLetterGroup Add a new letter group. The first argument is the name of the letter group. The second argument is the xindy code specifying prefixes and ordering.

```
1271 \newcommand*\GlsAddLetterGroup[2]{%
1272   \expandafter\toks@\expandafter{\@xdylettergroups}%
1273   \protected@edef@\xdylettergroups{\the\toks^\^J%
1274     (\define-letter-group \string"##1\string"^\^J\space\space\space#2)}%
1275 }%
```

1.5 Loops and conditionals

\forallglossaries To iterate through all glossaries (or comma-separated list of glossary names given in optional argument) use:

```
\forallglossaries[<glossary list>]{<cmd>}{<code>}
```

where *<cmd>* is a control sequence which will be set to the name of the glossary in the current iteration.

```
1276 \newcommand*\forallglossaries[3][\@glo@types]{%
1277   \@for#2:=#1\do{\ifx#2\empty\else#3\fi}%
1278 }
```

\forallacronyms

```

1279 \newcommand*{\forallacronyms}[2]{%
1280   \@for#1:=\glsacronymlists\do{\ifx#1\empty\else#2\fi}%
1281 }

```

\forglsentries To iterate through all entries in a given glossary use:

```
\forglsentries[<type>]{<cmd>}{<code>}
```

where *<type>* is the glossary label and *<cmd>* is a control sequence which will be set to the entry label in the current iteration.

```

1282 \newcommand*{\forglsentries}[3][\glsdefaulttype]{%
1283   \edef\@glo@list{\csname glo@list\endcsname}%
1284   \@for#2:=\@glo@list\do{%
1285     {%
1286       \ifdefempty{#2}{}{%
1287         }%
1288   }

```

\forallglsentries To iterate through all glossary entries over all glossaries listed in the optional argument (the default is all glossaries) use:

```
\forallglsentries[<glossary list>]{<cmd>}{<code>}
```

Within \forallglsentries, the current glossary type is given by \@@this@glo@.

```

1289 \newcommand*{\forallglsentries}[3][\@glo@types]{%
1290   \expandafter\forallglossaries\expandafter[#1]{\@@this@glo@}%
1291   {%
1292     \forglsentries[\@@this@glo@]{#2}{#3}%
1293   }%
1294 }

```

\ifglossaryexists To check to see if a glossary exists use:

```
\ifglossaryexists{<type>}{<true-text>}{<false-text>}
```

where *<type>* is the glossary's label.

```

1295 \newcommand{\ifglossaryexists}[3]{%
1296   \ifcsundef{@glo@type@#1@out}{#3}{#2}%
1297 }

```

Since the label is used to form the name of control sequences, by default UTF8 etc characters can't be used in the label. A possible workaround is to use \scantokens, but commands such as \glsentrytext will no longer be usable in sectioning, caption etc commands. If the user really wants to be able to construct a label with UTF8 characters, allow them the means to do so (but on their own head be it, if they then use entries in \section etc). This can be done via:

```
\renewcommand*{\glsdetoklabel}[1]{\scantokens{#1\noexpand}}
```

(Note, don't use `\detokenize` or it will cause commands like `\glsaddall` to fail.) Since redefining `\glsdetoklabel` can cause things to go badly wrong, I'm not going to mention it in the main user guide. Only advanced users who know what they're doing ought to attempt it.

```
\glsdetoklabel
1298 \newcommand*{\glsdetoklabel}[1]{#1}
```

`\ifglsentryexists` To check to see if a glossary entry has been defined use:

`\ifglsentryexists{\label}{\true}{\false}`

where `\label` is the entry's label.

```
1299 \newcommand{\ifglsentryexists}[3]{%
1300   \ifcsundef{glo@\glsdetoklabel{#1}@name}{#3}{#2}%
1301 }
```

`\ifglsused` To determine if given glossary entry has been used in the document text yet use:

`\ifglsused{\label}{\true}{\false}`

where `\label` is the entry's label. If true it will do `\true` otherwise it will do `\false`.

```
1302 \newcommand*{\ifglsused}[3]{%
1303   \ifbool{glo@\glsdetoklabel{#1}@flag}{#2}{#3}%
1304 }
```

The following two commands will cause an error if the given condition fails:

```
\glsdoifexists \glsdoifexists{\label}{\code}
```

Generate an error if entry specified by `\label` doesn't exists, otherwise do `\code`.

```
1305 \newcommand{\glsdoifexists}[2]{%
1306   \ifglsentryexists{#1}{#2}{%
1307     \PackageError{glossaries}{Glossary entry '\glsdetoklabel{#1}'%
1308       has not been defined}{You need to define a glossary entry before you%
1309       can use it.}%
1310 }
```

```
\glsdoifnoexists \glsdoifnoexists{\label}{\code}
```

The opposite: only do second argument if the entry doesn't exists. Generate an error message if it exists.

```
1311 \newcommand{\glsdoifnoexists}[2]{%
1312   \ifglsentryexists{#1}{%
```

```

1313     \PackageError{glossaries}{Glossary entry '\glsdetoklabel{\#1}' has already
1314     been defined}{}{\#2}%
1315 }
```

\glsdoifexistsorwarn \glsdoifexistsorwarn{*label*}{*code*}

Generate a warning if entry specified by *label* doesn't exists, otherwise do *code*.

```

1316 \newcommand{\glsdoifexistsorwarn}[2]{%
1317   \ifglsentryexists{\#1}{\#2}{%
1318     \GlossariesWarning{Glossary entry '\glsdetoklabel{\#1}'%
1319       has not been defined}%
1320   }%
1321 }
```

```

\ifglshaschildren \ifglshaschildren{label}{true part}{false part}
1322 \newcommand{\ifglshaschildren}[3]{%
1323   \glsdoifexists{\#1}%
1324   {%
1325     \def\do@glshaschildren{\#3}%
1326     \edef\@gls@thislabel{\glsdetoklabel{\#1}}%
1327     \expandafter\forglsentries\expandafter
1328       [\csname glo@\@gls@thislabel @type\endcsname]
1329     {\glo@label}%
1330   {%
1331     \letcs\glo@parent{\glo@\glo@label @parent}%
1332     \ifdefeq{\glo@parent}{\@gls@thislabel}{%
1333       {%
1334         \def\do@glshaschildren{\#2}%
1335         \endfortrue
1336       }%
1337     }%
1338   }%
1339   \do@glshaschildren
1340 }%
1341 }
```

\ifglshasparent \ifglshasparent{*label*}{*true part*}{*false part*}

```

1342 \newcommand{\ifglshasparent}[3]{%
1343   \glsdoifexists{\#1}%
1344   {%
1345     \ifcsempty{\glo@\glsdetoklabel{\#1}@parent}{\#3}{\#2}%
1346   }%
1347 }
```

```

\ifglshasdesc  \ifglshasdesc{\label}{\truepart}{\falsepart}
1348 \newcommand*{\ifglshasdesc}[3]{%
1349   \ifcsemptry{glo@\glsdetoklabel{\#1}@desc}%
1350   {#3}%
1351   {#2}%
1352 }

\ifglsdescsuppressed \ifglsdescsuppressed{\label}{\truepart}{\falsepart} Does \truepart
if the description is just \nopostdesc otherwise does \falsepart.
1353 \newcommand*{\ifglsdescsuppressed}[3]{%
1354   \ifcsequall{glo@\glsdetoklabel{\#1}@desc}{@no@post@desc}%
1355   {#2}%
1356   {#3}%
1357 }

\ifglshassymbol \ifglshassymbol{\label}{\truepart}{\falsepart}
1358 \newcommand*{\ifglshassymbol}[3]{%
1359   \letcs{\@glo@symbol}{glo@\glsdetoklabel{\#1}@symbol}%
1360   \ifdefempty{\@glo@symbol}%
1361   {#3}%
1362   {%
1363     \ifdefequal{\@glo@symbol}{\gls@default@value}%
1364     {#3}%
1365     {#2}%
1366   }%
1367 }

\ifglshaslong \ifglshaslong{\label}{\truepart}{\falsepart}
1368 \newcommand*{\ifglshaslong}[3]{%
1369   \letcs{\@glo@long}{glo@\glsdetoklabel{\#1}@long}%
1370   \ifdefempty{\@glo@long}%
1371   {#3}%
1372   {%
1373     \ifdefequal{\@glo@long}{\gls@default@value}%
1374     {#3}%
1375     {#2}%
1376   }%
1377 }

\ifglshasshort \ifglshasshort{\label}{\truepart}{\falsepart}
1378 \newcommand*{\ifglshasshort}[3]{%
1379   \letcs{\@glo@short}{glo@\glsdetoklabel{\#1}@short}%
1380   \ifdefempty{\@glo@short}%
1381   {#3}%
1382   {%
1383     \ifdefequal{\@glo@short}{\gls@default@value}%
1384     {#3}%
1385     {#2}%

```

```
1386 }%
1387 }
```

```
\ifglshasfield \ifglshasfield{\langle field \rangle}{\langle label \rangle}{\langle true part \rangle}{\langle false part \rangle}
```

```
1388 \newcommand*{\ifglshasfield}[4]{%
1389   \glsdoifexists{#2}%
1390   {%
1391     \letcs{\@glo@thisvalue}{\glsdetoklabel{#2}@#1}%
```

First check supplied field label is defined.

```
1392   \ifdef{\@glo@thisvalue}
1393   {%
```

Is defined, so now check if empty.

```
1394     \ifdefempty{\@glo@thisvalue}
1395     {%
```

Is empty, so doesn't have field set.

```
1396     #4%
1397   }%
1398   {%
```

Not empty, so check if set to \gls@default@value

```
1399     \ifdefequal{\@glo@thisvalue}{\gls@default@value}{#4}{#3}%
1400     }%
1401   }%
1402   {%
```

Field given isn't defined, so check if mapping exists.

```
1403     \@gls@fetchfield{\@gls@thisfield}{#1}%
```

If \@gls@thisfield is defined, we've found a map. If not, the field supplied doesn't exist.

```
1404   \ifdef{\@gls@thisfield}
1405   {%
```

Is defined, so now check if empty.

```
1406     \letcs{\@glo@thisvalue}{\glsdetoklabel{#2}@{\@gls@thisfield}}%
1407     \ifdefempty{\@glo@thisvalue}
1408     {%
```

Is empty so field hasn't been set.

```
1409     #4%
1410   }%
1411   {%
```

Isn't empty so check if it's been set to \gls@default@value.

```
1412     \ifdefequal{\@glo@thisvalue}{\gls@default@value}{#4}{#3}%
1413     }%
1414   }%
1415   {%
```

Not defined.

```
1416          \GlossariesWarning{Unknown entry field '#1'}%
1417          #4%
1418      }%
1419  }%
1420 }%
1421 }
```

1.6 Defining new glossaries

A comma-separated list of glossary names is stored in `\@glo@types`. When a new glossary type is created, its identifying name is added to this list. This is used by commands that iterate through all glossaries (such as `\makeglossaries` and `\printglossaries`).

`\@glo@types`

```
1422 \newcommand*\{@glo@types}{,}
```

`provide@newglossary` If the user removes the glossary package from their document, ensure the next run doesn't throw a load of undefined control sequence errors when the aux file is parsed.

```
1423 \newcommand*\@gls@provide@newglossary{%
```

```
1424  \protected@write\@auxout{}{\string\providecommand\string\@newglossary[4]{}{}}
```

Only need to do this once.

```
1425  \let\@gls@provide@newglossary\relax
```

```
1426 }
```

`\defglsentryfmt` Allow different glossaries to have different display styles.

```
1427 \newcommand*\@defglsentryfmt}[2][\glsdefaulttype]{%
```

```
1428  \csgdef{gls@#1@entryfmt}{#2}{}
```

```
1429 }
```

`\gls@doentryfmt`

```
1430 \newcommand*\@gls@doentryfmt}[1]{\csuse{gls@#1@entryfmt}}
```

`\@gls@forbidtexext` As a security precaution, don't allow the user to specify a 'tex' extension for any of the glossary files. (Just in case a seriously confused novice user doesn't know what they're doing.) The argument must be a control sequence whose replacement text is the requested extension.

```
1431 \newcommand*\@gls@forbidtexext}[1]{%
```

```
1432  \ifboolexpr{test {\ifdefstring{#1}{tex}}{}}
```

```
1433          or test {\ifdefstring{#1}{TEX}}{}}
```

```
1434  {%
```

```
1435  \def#1{nottex}{}
```

```
1436  \PackageError{glossaries}{}
```

```
1437  {Forbidden '.tex' extension replaced with '.nottex'}}{}
```

```
1438  {I'm sorry, I can't allow you to do something so reckless.\MessageBreak}
```

```

1439     Don't use '.tex' as an extension for a temporary file.}%
1440 }%
1441 {%
1442 }%
1443 }

```

A new glossary type is defined using `\newglossary`. Syntax:

```
\newglossary[<log-ext>]{<name>}{<in-ext>}{<out-ext>}%
{<title>} [<counter>]
```

where `<log-ext>` is the extension of the `makeindex` transcript file, `<in-ext>` is the extension of the glossary input file (read in by `\printglossary` and created by `makeindex`), `<out-ext>` is the extension of the glossary output file which is read in by `makeindex` (lines are written to this file by the `\glossary` command), `<title>` is the title of the glossary that is used in `\glossarysection` and `<counter>` is the default counter to be used by entries belonging to this glossary. The `makerglossaries` Perl script reads in the relevant extensions from the auxiliary file, and passes the appropriate file names and switches to `makeindex`.

```
\newglossary
1444 \newcommand*{\newglossary}{\@ifstar\s@newglossary\ns@newglossary}
```

`\s@newglossary` The starred version will construct the extension based on the label.

```

1445 \newcommand*{\s@newglossary}[2]{%
1446   \ns@newglossary[#1-glg]{#1}{#1-gls}{#1-glo}{#2}%
1447 }
```

`\ns@newglossary` Define the unstarred version.

```

1448 \newcommand*{\ns@newglossary}[5][glg]{%
1449   \ifglossaryexists{#2}{%
1450     \%
1451     \PackageError{glossaries}{Glossary type '#2' already exists}{%
1452       You can't define a new glossary called '#2' because it already
1453       exists}%
1454   }%
1455 }
```

Check if default has been set

```

1456   \ifundefined\glsdefaulttype
1457   {%
1458     \gdef\glsdefaulttype{#2}%
1459   }{}}
```

Add this to the list of glossary types:

```
1460 \toks@{#2}\edef\@glo@types{\@glo@types\the\toks@,}%
```

Define a comma-separated list of labels for this glossary type, so that all the entries for this glossary can be reset with a single command. When a new entry is created, its label is added to this list.

```
1461 \expandafter\gdef\csname glolist@#2\endcsname{,}%
```

Store the file extensions:

```
1462 \expandafter\edef\csname @glotype@#2@log\endcsname{#1}%
1463 \expandafter\edef\csname @glotype@#2@in\endcsname{#3}%
1464 \expandafter\edef\csname @glotype@#2@out\endcsname{#4}%
1465 \expandafter\@gls@forbidtexext\csname @glotype@#2@log\endcsname
1466 \expandafter\@gls@forbidtexext\csname @glotype@#2@in\endcsname
1467 \expandafter\@gls@forbidtexext\csname @glotype@#2@out\endcsname
```

Store the title:

```
1468 \expandafter\def\csname @glotype@#2@title\endcsname{#5}%
```

```
1469 \@gls@provide@newglossary
```

```
1470 \protected@write\@auxout{}{\string\@newglossary{#2}{#1}{#3}{#4}}%
```

How to display this entry in the document text (uses `\glsentry` by default). This can be redefined by the user later if required (see `\defglsentry`). This may already have been defined if this has been specified as a list of acronyms.

```
1471 \ifcsundef{gls@#2@entryfmt}%
1472 {%
1473   \defglsentryfmt [#2] {\glsentryfmt}%
1474 }%
1475 {}%
```

Define sort counter if required:

```
1476 \@gls@defsortcount{#2}%
```

Find out if the final optional argument has been specified, and use it to set the counter associated with this glossary. (Uses `\glscounter` if no optional argument is present.)

```
1477 \@ifnextchar [{\@gls@setcounter{#2}}%
1478 { \@gls@setcounter{#2} [\glscounter]}%
1479 }
```

\altnewglossary

```
1480 \newcommand*{\altnewglossary}[3]{%
1481   \newglossary[#2-glg]{#1}{#2-gls}{#2-glo}{#3}%
1482 }
```

Only define new glossaries in the preamble:

```
1483 \onlypreamble{\newglossary}
```

Only define new glossaries before `\makeglossaries`

```
1484 \onlypremakeg{\newglossary}
```

`\@newglossary` is used to specify the file extensions for the `makeindex` input, output and transcript files. It is written to the auxiliary file by `\newglossary`. Since it is not used by L^AT_EX, `\@newglossary` simply ignores its arguments.

```
\@newglossary
```

```
1485 \newcommand*{\@newglossary}[4]{}{}
```

Store counter to be used for given glossary type (the first argument is the glossary label, the second argument is the name of the counter):

```
\@gls@setcounter
```

```
1486 \def\@gls@setcounter#1[#2]{%
```

```
1487   \expandafter\def\csname @gloctype@#1@counter\endcsname{#2}%
```

Add counter to xindy list, if not already added:

```
1488   \ifglsxindy
```

```
1489     \GlsAddXdyCounters{#2}%
```

```
1490   \fi
```

```
1491 }
```

Get counter associated with given glossary (the argument is the glossary label):

```
\@gls@getcounter
```

```
1492 \newcommand*{\@gls@getcounter}[1]{%
```

```
1493   \csname @gloctype@#1@counter\endcsname
```

```
1494 }
```

Define the main glossary. This will be the first glossary to be displayed when using `\printglossaries`.

```
1495 \glsdefmain
```

Define the “acronym” glossaries if required.

```
1496 \@gls@do@acronymsdef
```

Define the “symbols”, “numbers” and “index” glossaries if required.

```
1497 \@gls@do@symbolsdef
```

```
1498 \@gls@do@numbersdef
```

```
1499 \@gls@do@indexdef
```

`\newignoredglossary` Creates a new glossary that doesn’t have associated files. This glossary is ignored by and commands that iterate over glossaries, such as `\printglossaries`, and won’t work with commands like `\printglossary`. It’s intended for entries that are so commonly-known they don’t require a glossary.

```
1500 \newcommand*{\newignoredglossary}[1]{%
```

```
1501   \ifdefempty{\ignores@glossaries}
```

```
1502   {%
```

```
1503     \edef{\ignores@glossaries}{#1}%
```

```
1504   }%
```

```
1505   {%
```

```
1506     \eappto{\ignores@glossaries}{,#1}%
```

```
1507   }%
```

```
1508   \csgdef{glolist@#1}{,}%
```

```
1509   \ifcsundef{\gls@#1@entryfmt}{%
```

```
1510   {%
```

```

1511     \defglsentryfmt [#1]{\glsentryfmt}%
1512   }%
1513   {}%
1514   \ifdefempty{\gls@nohyperlist}
1515   {%
1516     \renewcommand*{\gls@nohyperlist}{#1}%
1517   }%
1518   {}%
1519   \eappto{\gls@nohyperlist}{, #1}%
1520 }%
1521 }

```

`@ignored@glossaries` List of ignored glossaries.

```
1522 \newcommand*{\ignored@glossaries}{}%
```

`\ifignoredglossary` Tests if the given glossary is an ignored glossary. Expansion is used in case the first argument is a control sequence.

```

1523 \newcommand*{\ifignoredglossary}[3]{%
1524   \edef\gls@igtype{#1}%
1525   \expandafter\DTLifinlist\expandafter
1526   {\gls@igtype}{\ignored@glossaries}{#2}{#3}%
1527 }

```

1.7 Defining new entries

New glossary entries are defined using `\newglossaryentry`. This command requires a label and a key-value list that defines the relevant information for that entry. The definition for these keys follows. Note that the name, description and symbol keys will be sanitized later, depending on the value of the package option sanitize (this means that if some of the keys haven't been defined, they can be constructed from the name and description key before they are sanitized).

`name` The name key indicates the name of the term being defined. This is how the term will appear in the glossary. The name key is required when defining a new glossary entry.

```

1528 \define@key{glossentry}{name}{%
1529 \def\glo@name{#1}%
1530 }

```

`description` The description key is usually only used in the glossary, but can be made to appear in the text by redefining `\glsentryfmt` or using `\defglsentryfmt`. The description key is required when defining a new glossary entry. If a long description is required, use `\longnewglossaryentry` instead of `\newglossaryentry`.

```

1531 \define@key{glossentry}{description}{%
1532 \def\glo@desc{#1}%
1533 }

```

```

descriptionplural
1534 \define@key{glossentry}{descriptionplural}{%
1535 \def\@glo@descplural{\#1}%
1536 }

sort The sort key needs to be sanitized here (the sort key is provided for makeindex's benefit, not for use in the document). The sort key is optional when defining a new glossary entry. If omitted, the value is given by \name \description.
1537 \define@key{glossentry}{sort}{%
1538 \def\@glo@sort{\#1}%

text The text key determines how the term should appear when used in the document (i.e. outside of the glossary). If omitted, the value of the name key is used instead.
1539 \define@key{glossentry}{text}{%
1540 \def\@glo@text{\#1}%
1541 }

plural The plural key determines how the plural form of the term should be displayed in the document. If omitted, the plural is constructed by appending \glspluralsuffix to the value of the text key.
1542 \define@key{glossentry}{plural}{%
1543 \def\@glo@plural{\#1}%
1544 }

first The first key determines how the entry should be displayed in the document when it is first used. If omitted, it is taken to be the same as the value of the text key.
1545 \define@key{glossentry}{first}{%
1546 \def\@glo@first{\#1}%
1547 }

firstplural The firstplural key is used to set the plural form for first use, in the event that the plural is required the first time the term is used. If omitted, it is constructed by appending \glspluralsuffix to the value of the first key.
1548 \define@key{glossentry}{firstplural}{%
1549 \def\@glo@firstplural{\#1}%
1550 }

\@gls@default@value
1551 \newcommand*\@gls@default@value{\relax}

symbol The symbol key is ignored by most of the predefined glossary styles, and defaults to \relax if omitted. It is provided for glossary styles that require an associated symbol, as well as a name and description. To make this value appear in the glossary, you need to redefine \glossentry. If you want this value to

```

appear in the text when the term is used by commands like \gls, you will need to change \glsentryfmt (or use for \defglsentryfmt individual glossaries).

```
1552 \define@key{glossentry}{symbol}{%
1553   \def\@glo@symbol{\#1}%
1554 }
```

symbolplural

```
1555 \define@key{glossentry}{symbolplural}{%
1556   \def\@glo@symbolplural{\#1}%
1557 }
```

type The type key specifies to which glossary this entry belongs. If omitted, the default glossary is used.

```
1558 \define@key{glossentry}{type}{%
1559   \def\@glo@type{\#1}}
```

counter The counter key specifies the name of the counter associated with this glossary entry:

```
1560 \define@key{glossentry}{counter}{%
1561   \ifcsundef{c@\#1}%
1562     {%
1563       \PackageError{glossaries}%
1564       {There is no counter called ‘#1’}%
1565       {%
1566         The counter key should have the name of a valid counter%
1567         as its value%
1568       }%
1569     }%
1570   {%
1571     \def\@glo@counter{\#1}%
1572   }%
1573 }
```

see The see key specifies a list of cross-references

```
1574 \define@key{glossentry}{see}{%
1575   \gls@checkseeallowed
1576   \def\@glo@see{\#1}%
1577   \glo@seeautonumberlist
1578 }
```

gls@checkseeallowed

```
1579 \newcommand*\gls@checkseeallowed{%
1580   \PackageError{glossaries}%
1581   {'see' key may only be used after \string\makeglossaries\space%
1582   or \string\makenoidxglossaries\%}
1583   {You must use \string\makeglossaries\space%
1584   or \string\makenoidxglossaries\space before defining%
1585   any entries that have a ‘see’ key}\%
1586 }
```

parent The parent key specifies the parent entry, if required.

```
1587 \define@key{glossentry}{parent}{%
1588 \def\@glo@parent{\#1}}
```

nonumberlist The nonumberlist key suppresses or activates the number list for the given entry.

```
1589 \define@choicekey{glossentry}{nonumberlist}[\val\nr]{true,false}[true]{%
1590   \ifcase\nr\relax
1591     \def\@glo@prefix{\glsnonextpages}%
1592   \else
1593     \def\@glo@prefix{\glsnextpages}%
1594   \fi
1595 }
```

Define some generic user keys. (Additional keys can be added by the user.)

user1

```
1596 \define@key{glossentry}{user1}{%
1597   \def\@glo@useri{\#1}%
1598 }
```

user2

```
1599 \define@key{glossentry}{user2}{%
1600   \def\@glo@userii{\#1}%
1601 }
```

user3

```
1602 \define@key{glossentry}{user3}{%
1603   \def\@glo@useriii{\#1}%
1604 }
```

user4

```
1605 \define@key{glossentry}{user4}{%
1606   \def\@glo@useriv{\#1}%
1607 }
```

user5

```
1608 \define@key{glossentry}{user5}{%
1609   \def\@glo@userv{\#1}%
1610 }
```

user6

```
1611 \define@key{glossentry}{user6}{%
1612   \def\@glo@uservi{\#1}%
1613 }
```

`short` This key is provided for use by `\newacronym`. It's not designed for general purpose use, so isn't described in the user manual.

```
1614 \define@key{glossentry}{short}{%
1615   \def\@glo@short{\#1}%
1616 }
```

`shortplural` This key is provided for use by `\newacronym`.

```
1617 \define@key{glossentry}{shortplural}{%
1618   \def\@glo@shortpl{\#1}%
1619 }
```

`long` This key is provided for use by `\newacronym`.

```
1620 \define@key{glossentry}{long}{%
1621   \def\@glo@long{\#1}%
1622 }
```

`longplural` This key is provided for use by `\newacronym`.

```
1623 \define@key{glossentry}{longplural}{%
1624   \def\@glo@longpl{\#1}%
1625 }
```

`\@glsnoname` Define command to generate error if name key is missing.

```
1626 \newcommand*{\@glsnoname}{%
1627   \PackageError{glossaries}{name key required in%
1628   \string\newglossaryentry\space for entry '\@glo@label'}{You%
1629   haven't specified the entry name}}
```

`\@glsnodec` Define command to generate error if description key is missing.

```
1630 \newcommand*{\@glsnodec}{%
1631   \PackageError{glossaries}%
1632   {%
1633     description key required in \string\newglossaryentry\space%
1634     for entry '\@glo@label'%
1635   }%
1636   {%
1637     You haven't specified the entry description%
1638   }%
1639 }
```

`\@glsdefaultplural` Now obsolete. Don't use.

```
1640 \newcommand*{\@glsdefaultplural}{}
```

`s@missingnumberlist` Define a command to generate warning when numberlist not set.

```
1641 \newcommand*{\@gls@missingnumberlist}[1]{%
1642   ??%
1643   \ifglssavenuumberlist%
1644     \GlossariesWarning{Missing number list for entry '#1'.%
1645     Maybe makeglossaries + rerun required.}%
1646 }
```

```

1646 \else
1647   \PackageError{glossaries}%
1648   {Package option `savenumberlist=true' required.}%
1649   {%
1650     You must use the `savenumberlist' package option
1651     to reference location lists.%}
1652   }%
1653 \fi
1654 }

\@glsdefaultsort Define command to set default sort.
1655 \newcommand*{\@glsdefaultsort}{\@glo@name}

\gls@level Register to increment entry levels.
1656 \newcount\gls@level

@gls@noexpand@field
1657 \newcommand{\@gls@noexpand@field}[3]{%
1658   \expandafter\global\expandafter
1659   \let\csname glo@#1#2\endcsname#3%
1660 }

gls@noexpand@fields
1661 \newcommand{\@gls@noexpand@fields}[4]{%
1662   \ifcsdef{gls@assign@#3@field}%
1663   {%
1664     \ifdefequal{#4}{\@gls@default@value}%
1665     {%
1666       \edef\@gls@value{\expandonce{#1}}%
1667       \csuse{gls@assign@#3@field}{#2}{\@gls@value}%
1668     }%
1669     {%
1670       \csuse{gls@assign@#3@field}{#2}{#4}%
1671     }%
1672   }%
1673   {%
1674     \ifdefequal{#4}{\@gls@default@value}%
1675     {%
1676       \edef\@gls@value{\expandonce{#1}}%
1677       \@@gls@noexpand@field{#2}{#3}{\@gls@value}%
1678     }%
1679     {%
1680       \@@gls@noexpand@field{#2}{#3}{#4}%
1681     }%
1682   }%
1683 }

\@@gls@expand@field

```

```

1684 \newcommand{\@@gls@expand@field}[3]{%
1685   \expandafter
1686   \protected@xdef\csname glo@\#1@\#2\endcsname{#3}%
1687 }

@gls@expand@fields
1688 \newcommand{\@gls@expand@fields}[4]{%
1689   \ifcsdef{gls@assign@#3@field}
1690   {%
1691     \ifdefequal{#4}{\@gls@default@value}%
1692     {%
1693       \edef\@gls@value{\expandonce{#1}}%
1694       \csuse{gls@assign@#3@field}{#2}{\@gls@value}%
1695     }%
1696     {%
1697       \expandafter\@gls@startswithexpandonce#4\relax\relax\gls@endcheck
1698     }%
1699     \@@gls@expand@field{#2}{#3}{#4}%
1700   }%
1701   {%
1702     \csuse{gls@assign@#3@field}{#2}{#4}%
1703   }%
1704 }%
1705 }%
1706 {%
1707   \ifdefequal{#4}{\@gls@default@value}%
1708   {%
1709     \@@gls@expand@field{#2}{#3}{#1}%
1710   }%
1711   {%
1712     \@@gls@expand@field{#2}{#3}{#4}%
1713   }%
1714 }%
1715 }

\tartswithexpandonce
1716 \def\@gls@expandonce{\expandonce}
1717 \def\@gls@startswithexpandonce#1#2\gls@endcheck#3#4{%
1718   \def\@gls@tmp{#1}%
1719   \ifdefequal{\@gls@expandonce}{\@gls@tmp}{#3}{#4}%
1720 }

```

\gls@assign@field \gls@assign@field{\langle def value\rangle}{\langle glossary type\rangle}{\langle field\rangle}{\langle tmp cs\rangle}

Assigns an entry field. Expansion performed by default (except for name, symbol and description where backward compatibility required). If $\langle tmp cs \rangle$ is $\langle @gls@default@value \rangle$, $\langle def value \rangle$ is used instead.

1721 \let\gls@assign@field\gls@expand@fields

\glsexpandfields Fully expand values when assigning fields (except for specific fields that are overridden by \glssetnoexpandfield).

```
1722 \newcommand*{\glsexpandfields}{%
1723   \let\gls@assign@field\@gls@expand@fields
1724 }
```

\glsnoexpandfields Don't expand values when assigning fields (except for specific fields that are overridden by \glssetexpandfield).

```
1725 \newcommand*{\glsnoexpandfields}{%
1726   \let\gls@assign@field\@gls@noexpand@fields
1727 }
```

\newglossaryentry Define \newglossaryentry {\langle label\rangle} {\langle key-val list\rangle}. There are two required fields in \langle key-val list\rangle: name (or parent) and description. (See above.)

```
1728 \newrobustcmd{\newglossaryentry}[2]{%
```

Check to see if this glossary entry has already been defined:

```
1729   \glsdoifnoexists{#1}%
1730   {%
1731     \gls@defglossaryentry{#1}{#2}%
1732   }%
1733 }
```

\provideglossaryentry Like \newglossaryentry but does nothing if the entry has already been defined.

```
1734 \newrobustcmd{\provideglossaryentry}[2]{%
1735   \ifglsentryexists{#1}%
1736   {}%
1737   {}%
1738   \gls@defglossaryentry{#1}{#2}%
1739   }%
1740 }
1741 \onlypreamble{\provideglossaryentry}
```

\new@glossaryentry For use in document environment.

```
1742 \newrobustcmd{\new@glossaryentry}[2]{%
1743   \ifundef\@gls@deffile
1744   {%
1745     \global\newwrite\@gls@deffile
1746     \immediate\openout\@gls@deffile=\jobname.glsdefs
1747   }%
1748   {}%
1749   \ifglsentryexists{#1}{}%
1750   {%
1751     \gls@defglossaryentry{#1}{#2}%
1752   }%
1753   \onlygls@writedef{#1}%
1754 }
```

```

1755 \AtBeginDocument
1756 {
1757   \makeatletter
1758   \InputIfFileExists{\jobname.glsdefs}{}{%
1759   \makeatother
1760   \let\newglossaryentry\new@glossaryentry
1761 }
1762 \AtEndDocument{\ifdef\@gls@deffile{\closeout\@gls@deffile}{}}
```

\@gls@writedef Writes glossary entry definition to \@gls@deffile.

```

1763 \newcommand*{\@gls@writedef}[1]{%
1764   \immediate\write\@gls@deffile
1765   {%
1766     \string\ifglsentryexists{#1}\{\glspcentchar^~J%
1767     \expandafter\gobble\string\{\glspcentchar^~J%
1768     \string\gls@defglossaryentry{\glsdetoklabel{#1}}\glspcentchar^~J%
1769     \expandafter\gobble\string\{\glspcentchar%
1770   }%
```

Write key value information:

```

1771 \cfor\@gls@map:=\@gls@keymap\do
1772 {%
1773   \edef\glo@value{\expandafter\expandonce
1774     \csname glo@\glsdetoklabel{#1}@expandafter
1775     @secondoftwo\@gls@map\endcsname}%
1776   \cnonelevel@sanitize\glo@value
1777   \immediate\write\@gls@deffile
1778   {%
1779     \expandafter\@firstoftwo\@gls@map
1780     =\expandafter\@gobble\string\{\glo@value\expandafter\@gobble\string\},%
1781     \glspcentchar%
1782   }%
1783 }
```

Provide hook:

```

1784 \glswritedefhook
1785 \immediate\write\@gls@deffile
1786 {%
1787   \glspcentchar^~J%
1788   \expandafter\@gobble\string\}\glspcentchar^~J%
1789   \expandafter\@gobble\string\}\glspcentchar%
1790 }%
1791 }
```

\@gls@keymap List of entry definition key names and corresponding tag in control sequence used to store the value.

```

1792 \newcommand*{\@gls@keymap}{%
1793   {name}{name},%
1794   {sort}{sortvalue},% unescaped sort value
1795   {type}{type},%
```

```

1796 {first}{first},%
1797 {firstplural}{firstpl},%
1798 {text}{text},%
1799 {plural}{plural},%
1800 {description}{desc},%
1801 {descriptionplural}{descplural},%
1802 {symbol}{symbol},%
1803 {symbolplural}{symbolplural},%
1804 {user1}{useri},%
1805 {user2}{userii},%
1806 {user3}{useriii},%
1807 {user4}{useriv},%
1808 {user5}{userv},%
1809 {user6}{uservi},%
1810 {long}{long},%
1811 {longplural}{longpl},%
1812 {short}{short},%
1813 {shortplural}{shortpl},%
1814 {counter}{counter},%
1815 {parent}{parent}%
1816 }

```

\@gls@fetchfield \@gls@fetchfield{\cs}{\field}

Fetches the internal field label from the given user *field* and stores in *cs*.

```
1817 \newcommand*{\@gls@fetchfield}[2]{%
```

Ensure user field name is fully expanded

```
1818 \edef\@gls@thisval{\#2}%
```

Iterate through known mappings until we find the one for this field.

```
1819 \@for\@gls@map:=\@gls@keymap\do{%
1820   \edef\@this@key{\expandafter\@firstoftwo\@gls@map}%
1821   \ifdefequal{\@this@key}{\@gls@thisval}%
1822 }
```

Found it.

```
1823 \edef\@this@key{\expandafter\@secondoftwo\@gls@map}%
```

Break out of loop.

```
1824   \@endfortrue
1825 }
1826 {}%
1827 }%
1828 }
```

\glsaddkey{\key}{\defaultvalue}{\nolinkcs}{\nolinkucfirstcs}{\linkcs}{\linkucfirstcs}{\linkallcapscs}

Allow user to add their own custom keys.

```
1829 \newcommand*{\glsaddkey}{\@ifstar\@glsaddkey\@glsaddkey}
```

Starred version switches on expansion for this key.

```
1830 \newcommand*{\sglsaddkey}[1]{%
1831   \key@ifundefined{glossentry}{#1}%
1832   {%
1833     \expandafter\newcommand\expandafter*\expandafter
1834     {\csname gls@assign@\#1@field\endcsname}[2]{%
1835       \@@gls@expand@field{\##1}{#1}{\##2}%
1836     }%
1837   }%
1838   {}%
1839   \@glsaddkey{#1}%
1840 }
```

Unstarred version doesn't override default expansion.

```
1841 \newcommand*{\glsaddkey}[7]{%
```

Check the specified key doesn't already exist.

```
1842 \key@ifundefined{glossentry}{#1}%
1843 {%
```

Set up the key.

```
1844 \define@key{glossentry}{#1}{\csdef{@glo@\#1}{\##1}}%
1845 \appto\gls@keymap{,#1}{#1}%%
```

Set the default value.

```
1846 \appto\@newglossaryentryprehook{\csdef{@glo@\#1}{\#2}}%
```

Assignment code.

```
1847 \appto\@newglossaryentryposthook{%
1848   \letcs{\@glo@tmp}{\@glo@\#1}%
1849   \gls@assign@field{\#2}{\@glo@label}{#1}{\@glo@tmp}%
1850 }%
```

Define the no-link commands.

```
1851 \newcommand*{\#3}[1]{\@gls@entry@field{\##1}{#1}}%
1852 \newcommand*{\#4}[1]{\@Gls@entry@field{\##1}{#1}}%
```

Now for the commands with links. First the version with no case change:

```
1853 \ifcsdef{@gls@user@\#1}%
1854 {%
1855   \PackageError{glossaries}%
1856   {Can't define '\string\#5' as helper command%
1857   '\expandafter\string\csname @gls@user@\#1\endcsname' already exists}%
1858   {}%
1859 }%
1860 {%
1861   \expandafter\newcommand\expandafter*\expandafter
1862   {\csname @gls@user@\#1\endcsname}[2][]{%
1863     \new@ifnextchar[%
```

```

1864         {\csuse{@gls@user@#1@}{##1}{##2}}%
1865         {\csuse{@gls@user@#1@}{##1}{##2}[]}}%
1866 \csdef{@gls@user@#1@}##1##2##3{%
1867     @gls@field@link{##1}{##2}{#3{##2}##3}%
1868 }%
1869 \newrobustcmd*{#5}{%
1870     \expandafter@gls@hyp@opt\csname @gls@user@#1\endcsname}%
1871 }%

```

Next the version with the first letter converted to upper case:

```

1872 \ifcsdef{@Gls@user@#1@}{%
1873     {\PackageError{glossaries}{%
1874         {Can't define '\string#g6' as helper command
1875         '\expandafter\string\csname @Gls@user@#1@\endcsname' already exists}}%
1876     }%
1877 }%
1878 }%
1879 }%

1880 \expandafter\newcommand\expandafter*\expandafter
1881     {\csname @Gls@user@#1\endcsname}[2][]{%
1882     \new@ifnextchar[%
1883         {\csuse{@Gls@user@#1@}{##1}{##2}}%
1884         {\csuse{@Gls@user@#1@}{##1}{##2}[]}}%
1885 \csdef{@Gls@user@#1@}##1##2##3{%
1886     @gls@field@link{##1}{##2}{#4{##2}##3}%
1887 }%
1888 \newrobustcmd*{#6}{%
1889     \expandafter@gls@hyp@opt\csname @Gls@user@#1\endcsname}%
1890 }%

```

Finally the all caps version:

```

1891 \ifcsdef{@GLS@user@#1@}{%
1892     {\PackageError{glossaries}{%
1893         {Can't define '\string#g7' as helper command
1894         '\expandafter\string\csname @GLS@user@#1@\endcsname' already exists}}%
1895     }%
1896 }%
1897 }%
1898 }%

1899 \expandafter\newcommand\expandafter*\expandafter
1900     {\csname @GLS@user@#1\endcsname}[2][]{%
1901     \new@ifnextchar[%
1902         {\csuse{@GLS@user@#1@}{##1}{##2}}%
1903         {\csuse{@GLS@user@#1@}{##1}{##2}[]}}%
1904 \csdef{@GLS@user@#1@}##1##2##3{%
1905     @gls@field@link{##1}{##2}{\mfirstucMakeUppercase{#3{##2}##3}}%
1906 }%
1907 \newrobustcmd*{#7}{%

```

```

1908      \expandafter\@gls@hyp@opt\csname @GLS@user@#1\endcsname}%
1909      }%
1910      }%
1911      {%
1912      \PackageError{glossaries}{Key ‘#1’ already exists}{}%
1913      }%
1914 }

\glswritedefhook
1915 \newcommand*\{\glswritedefhook}{}}

\gls@assign@desc
1916 \newcommand*\{\gls@assign@desc}[1]{%
1917   \gls@assign@field{}{\#1}{desc}{\@glo@desc}%
1918   \gls@assign@field{\@glo@desc}{\#1}{descplural}{\@glo@descplural}%
1919 }

longnewglossaryentry
1920 \newcommand{\longnewglossaryentry}[3]{%
1921   \glsdoifnoexists{\#1}%
1922   {%
1923     \bgroup
1924       \let\@org@newglossaryentryprehook\@newglossaryentryprehook
1925       \long\def\@newglossaryentryprehook{%
1926         \long\def\@glo@desc{\#3}\leavevmode\unskip\nopostdesc}%
1927         \@org@newglossaryentryprehook
1928       }%
1929       \renewcommand*\{\gls@assign@desc}[1]{%
1930         \global\cslet{\glo@\glsdetoklabel{\#1}@desc}{\@glo@desc}%
1931         \global\cslet{\glo@\glsdetoklabel{\#1}@descplural}{\@glo@desc}%
1932       }
1933       \gls@defglossaryentry{\#1}{\#2}%
1934     \egroup
1935   }
1936 }

Only allowed in the preamble. (Otherwise a long description could cause problems when writing the entry definition to the temporary file.)
1937 \onlypreamble{\longnewglossaryentry}

provideglossaryentry As the above but only defines the entry if it doesn't already exist.
1938 \newcommand{\longprovideglossaryentry}[3]{%
1939   \ifglsentryexists{\#1}{}%
1940   {\longnewglossaryentry{\#1}{\#2}{\#3}}%
1941 }
1942 \onlypreamble{\longprovideglossaryentry}

```

\gls@defglossaryentry \gls@defglossaryentry{\langle label \rangle}{\langle key-val list \rangle}

Defines a new entry without checking if it already exists.

```
1943 \newcommand{\gls@defglossaryentry}[2]{%
```

Store label

```
1944     \edef\@glo@label{\glsdetoklabel{#1}}%
```

Provide a means for user defined keys to reference the label:

```
1945     \let\glslabel\@glo@label
```

Set up defaults. If the name or description keys are omitted, an error will be generated.

```
1946     \let\@glo@name\glsnoname
```

```
1947     \let\@glo@desc\glsnodec
```

```
1948     \let\@glo@descplural\gls@default@value
```

```
1949     \let\@glo@type\gls@default@value
```

```
1950     \let\@glo@symbol\gls@default@value
```

```
1951     \let\@glo@symbolplural\gls@default@value
```

```
1952     \let\@glo@text\gls@default@value
```

```
1953     \let\@glo@plural\gls@default@value
```

Using \let instead of \def to make later comparison avoid expansion issues.

(Thanks to Ulrich Diez for suggesting this.)

```
1954     \let\@glo@first\gls@default@value
```

```
1955     \let\@glo@firstplural\gls@default@value
```

Set the default sort:

```
1956     \let\@glo@sort\gls@default@value
```

Set the default counter:

```
1957     \let\@glo@counter\gls@default@value
```

```
1958     \def\@glo@see{}%
```

```
1959     \def\@glo@parent{}%
```

```
1960     \def\@glo@prefix{}%
```

```
1961     \def\@glo@useri{}%
```

```
1962     \def\@glo@userii{}%
```

```
1963     \def\@glo@useriii{}%
```

```
1964     \def\@glo@useriv{}%
```

```
1965     \def\@glo@userv{}%
```

```
1966     \def\@glo@usersvi{}%
```

```
1967     \def\@glo@short{}%
```

```
1968     \def\@glo@shortpl{}%
```

```
1969     \def\@glo@long{}%
```

```
1970     \def\@glo@longpl{}%
```

Add start hook in case another package wants to add extra keys.

```
1971     \@newglossaryentryprehook
```

Extract key-val information from third parameter:

```
1972     \setkeys{glossentry}{#2}%
```

Check there is a default glossary.

```
1973     \ifundef\glsdefaulttype
1974     {%
1975         \PackageError{glossaries}%
1976         {No default glossary type (have you used 'nomain')?}%
1977         {If you use package option 'nomain' you must define
1978          a new glossary before you can define entries}%
1979     }%
1980     {}%
```

Assign type. This must be fully expandable

```
1981     \gls@assign@field{\glsdefaulttype}{\@glo@label}{type}{\@glo@type}%
1982     \edef\@glo@type{\glsentrytype{\@glo@label}}%
```

Check to see if this glossary type has been defined, if it has, add this label to the relevant list, otherwise generate an error.

```
1983     \ifcsundef{glolist@\@glo@type}%
1984     {%
1985         \PackageError{glossaries}%
1986         {Glossary type '\@glo@type' has not been defined}%
1987         {You need to define a new glossary type, before making entries
1988          in it}%
1989     }%
1990     {}%
```

Check if it's an ignored glossary

```
1991     \ifignoredglossary\@glo@type
1992     {}%
```

The description may be omitted for an entry in an ignored glossary.

```
1993     \ifx\@glo@desc\glsnodec
1994     \let\@glo@desc\empty
1995     \fi
1996     {}%
1997     {}%
1998     {}%
1999     \protected@edef{glolist@{\csname glolist@\@glo@type\endcsname}}%
2000     \expandafter\xdef\csname glolist@\@glo@type\endcsname{%
2001         \@glolist@\{@glo@label},}%
2002     {}%
```

Initialise level to 0.

```
2003     \gls@level=0\relax
```

Has this entry been assigned a parent?

```
2004     \ifx\@glo@parent\empty
```

Doesn't have a parent. Set `\glo@<label>@parent` to empty.

```
2005      \expandafter\gdef\csname glo@\@glo@label @parent\endcsname{}%
2006      \else
```

Has a parent. Check to ensure this entry isn't its own parent.

```
2007      \ifdefequal\@glo@label\@glo@parent%
2008      {%
2009          \PackageError{glossaries}{Entry '\@glo@label' can't be its own parent}{}%
2010          \def\@glo@parent{}%
2011          \expandafter\gdef\csname glo@\@glo@label @parent\endcsname{}%
2012      }%
2013      {%
```

Check the parent exists:

```
2014      \ifglsentryexists{\@glo@parent}%
2015      {%
```

Parent exists. Set `\glo@<label>@parent`.

```
2016      \expandafter\xdef\csname glo@\@glo@label @parent\endcsname{%
2017          \@glo@parent}%
```

Determine level.

```
2018      \gls@level=\csname glo@\@glo@parent @level\endcsname\relax
2019      \advance\gls@level by 1\relax
```

If name hasn't been specified, use same as the parent name

```
2020      \ifx\@glo@name\@glsnoname
2021          \expandafter\let\expandafter\@glo@name
2022              \csname glo@\@glo@parent @name\endcsname
```

If name and plural haven't been specified, use same as the parent

```
2023      \ifx\@glo@plural\@gls@default@value
2024          \expandafter\let\expandafter\@glo@plural
2025              \csname glo@\@glo@parent @plural\endcsname
2026          \fi
2027          \fi
2028      }%
2029      {%
```

Parent doesn't exist, so issue an error message and change this entry to have no parent

```
2030      \PackageError{glossaries}%
2031      {%
2032          Invalid parent '\@glo@parent',
2033          for entry '\@glo@label' - parent doesn't exist%
2034      }%
2035      {%
2036          Parent entries must be defined before their children%
2037      }%
2038      \def\@glo@parent{}%
2039      \expandafter\gdef\csname glo@\@glo@label @parent\endcsname{}%
2040      }%
```

```

2041      }%
2042      \fi
        Set the level for this entry
2043      \expandafter\xdef\csname glo@\@glo@label @level\endcsname{\number\gls@level}%
        Define commands associated with this entry:
2044      \gls@assign@field{\@glo@name}{\@glo@label}{sortvalue}{\@glo@sort}%
2045      \letcs\@glo@sort{glo@\@glo@label}{sortvalue}%
2046      \gls@assign@field{\@glo@name}{\@glo@label}{text}{\@glo@text}%
2047      \expandafter\gls@assign@field\expandafter
2048          {\csname glo@\@glo@label @text\endcsname\glspluralsuffix}%
2049          {\@glo@label}{plural}{\@glo@plural}%
2050      \expandafter\gls@assign@field\expandafter
2051          {\csname glo@\@glo@label @text\endcsname}%
2052          {\@glo@label}{first}{\@glo@first}%
        If first has been specified, make the default by appending \glspluralsuffix,
        otherwise make the default the value of the plural key.
2053      \ifx\@glo@first\@gls@default@value
2054          \expandafter\gls@assign@field\expandafter
2055              {\csname glo@\@glo@label @plural\endcsname}%
2056              {\@glo@label}{firstpl}{\@glo@firstplural}%
2057      \else
2058          \expandafter\gls@assign@field\expandafter
2059              {\csname glo@\@glo@label @first\endcsname\glspluralsuffix}%
2060              {\@glo@label}{firstpl}{\@glo@firstplural}%
2061      \fi
2062      \ifcsundef{@glotype@\@glo@type @counter}%
2063      {%
2064          \def\@glo@defaultcounter{\glscounter}%
2065      }%
2066      {%
2067          \letcs\@glo@defaultcounter{@glotype@\@glo@type @counter}%
2068      }%
2069      \gls@assign@field{\@glo@defaultcounter}{\@glo@label}{counter}{\@glo@counter}%
2070      \gls@assign@field{}{\@glo@label}{useri}{\@glo@useri}%
2071      \gls@assign@field{}{\@glo@label}{userii}{\@glo@userii}%
2072      \gls@assign@field{}{\@glo@label}{useriii}{\@glo@useriii}%
2073      \gls@assign@field{}{\@glo@label}{useriv}{\@glo@useriv}%
2074      \gls@assign@field{}{\@glo@label}{userv}{\@glo@userv}%
2075      \gls@assign@field{}{\@glo@label}{uservi}{\@glo@uservi}%
2076      \gls@assign@field{}{\@glo@label}{short}{\@glo@short}%
2077      \gls@assign@field{}{\@glo@label}{shortpl}{\@glo@shortpl}%
2078      \gls@assign@field{}{\@glo@label}{long}{\@glo@long}%
2079      \gls@assign@field{}{\@glo@label}{longpl}{\@glo@longpl}%
2080      \ifx\@glo@name\glsnoname
2081          \glsnoname
2082          \let\@gloname\@gls@default@value
2083      \fi

```

```
2084     \gls@assign@field{}{\glo@label}{name}{\glo@name}%
```

Set default numberlist if not defined:

```
2085     \ifcsundef{glo@\glo@label @numberlist}%
2086     {%
2087         \csxdef{glo@\glo@label @numberlist}{}%
2088         \noexpand\gls@missingnumberlist{\glo@label}%
2089     }%
2090 }
```

The smaller and smallcaps options set the description to \glo@first. Need to check for this, otherwise it won't get expanded if the description gets sanitized.

```
2091     \def\glo@@desc{\glo@first}%
2092     \ifx\glo@desc\glo@@desc
2093         \let\glo@desc\glo@first
2094     \fi
2095     \ifx\glo@desc\glsnodec
2096         \glsnodec
2097         \let\glodesc\gls@default@value
2098     \fi
2099     \gls@assign@desc{\glo@label}%
```

Set the sort key for this entry:

```
2100     \gls@defsort{\glo@type}{\glo@label}%
2101     \def\glo@@symbol{\glo@text}%
2102     \ifx\glo@symbol\glo@@symbol
2103         \let\glo@symbol\glo@text
2104     \fi
2105     \gls@assign@field{\relax}{\glo@label}{symbol}{\glo@symbol}%
2106     \expandafter
2107         \gls@assign@field\expandafter
2108             {\csname glo@\glo@label @symbol\endcsname}%
2109             {\glo@label}{symbolplural}{\glo@symbolplural}%
```

Define an associated boolean variable to determine whether this entry has been used yet (needs to be defined globally):

```
2110     \expandafter\xdef\csname glo@\glo@label @flagfalse\endcsname{%
2111         \noexpand\global
2112             \noexpand\let\expandafter\noexpand
2113                 \csname ifglo@\glo@label @flag\endcsname\noexpand\iffalse
2114             }%
2115     \expandafter\xdef\csname glo@\glo@label @flagtrue\endcsname{%
2116         \noexpand\global
2117             \noexpand\let\expandafter\noexpand
2118                 \csname ifglo@\glo@label @flag\endcsname\noexpand\iftrue
2119             }%
2120     \csname glo@\glo@label @flagfalse\endcsname
```

Sort out any cross-referencing if required.

```
2121     \ifdefvoid{@glo@see
2122     {}%
2123     {}%
2124     \protected@edef{@do@glssee{%
2125         \noexpand@gls@fixbraces\noexpand@glo@list@glo@see
2126         \noexpand\@nil
2127         \noexpand\expandafter\noexpand@glssee\noexpand@glo@list{@glo@label}}%
2128     @do@glssee
2129 }%
```

Determine and store main part of the entry's index format.

```
2130 \ifignoredglossary@glo@type
2131 {}%
2132 \csdef{glo@}{glo@label}{index}{}%
2133 }
2134 {}%
2135 \do@glo@storeentry{@glo@label}%
2136 }%
```

Add end hook in case another package wants to add extra keys.

```
2137 \newglossaryentryposthook
2138 }
```

`\newglossaryentryprehook` Allow extra information to be added to glossary entries:

```
2139 \newcommand*{\newglossaryentryprehook}{}%
```

`\newglossaryentryposthook` Allow extra information to be added to glossary entries:

```
2140 \newcommand*{\newglossaryentryposthook}{}%
```

`\glsmoveentry` Moves entry whose label is given by first argument to the glossary named in the second argument.

```
2141 \newcommand*{\glsmoveentry}[2]{%
2142     \edef{@glo@thislabel}{\glsdetoklabel{#1}}%
2143     \edef{glo@type}{\csname glo@}{glo@thislabel}{type}\endcsname}%
2144     \def{glo@list}{,}%
2145     \forglsentries[\glo@type]{\glo@label}%
2146     {}%
2147     \ifdefequal{@glo@thislabel}{glo@label}
2148     {}{\eappto{glo@list}{\glo@label,}}%
2149     }%
2150     \cslet{glolist@}{glo@type}{\glo@list}%
2151     \csdef{glo@}{glo@thislabel}{type}{#2}%
2152 }
```

`@glossaryentryfield` Indicate what command should be used to display each entry in the glossary.
(This enables the `glossaries-accsupp` package to use `\accsuppglossaryentryfield` instead.)

```

2153 \ifglsxindy
2154   \newcommand*{\@glossaryentryfield}{\string\\glossentry}
2155 \else
2156   \newcommand*{\@glossaryentryfield}{\string\glossentry}
2157 \fi

\glossarysubentryfield Indicate what command should be used to display each subentry in the glossary. (This enables the glossaries-accsupp package to use \accsuppglossarysubentryfield instead.)
2158 \ifglsxindy
2159   \newcommand*{\@glossarysubentryfield}{%
2160     \string\\subglossentry}
2161 \else
2162   \newcommand*{\@glossarysubentryfield}{%
2163     \string\subglossentry}
2164 \fi

```

\@glo@storeentry \@glo@storeentry{\<label>}

Determine the format to write the entry in the glossary output (.glo) file. The argument is the entry's label (should already have been de-tok'ed if required). The result is stored in \glo@\<label>@index, where <label> is the entry's label. (This doesn't include any formatting or location information.)

```
2165 \newcommand{\@glo@storeentry}[1]{%
```

Escape makeindex/xindy special characters in the label:

```
2166 \edef\@glo@esclabel{\#1}%
2167 \@gls@checkmkidxchars\@glo@esclabel
```

Get the sort string and escape any special characters

```
2168 \protected\edef\@glo@sort{\csname glo@\#1@sort\endcsname}%
2169 \@gls@checkmkidxchars\@glo@sort
```

Same again for the name string. Escape any special characters in the prefix

```
2170 \@gls@checkmkidxchars\@glo@prefix
```

Get the parent, if one exists

```
2171 \edef\@glo@parent{\csname glo@\#1@parent\endcsname}%
```

Write the information to the glossary file.

```
2172 \ifglsxindy
```

Store using xindy syntax.

```
2173 \ifx\@glo@parent\@empty
```

Entry doesn't have a parent

```
2174 \expandafter\protected\def\csname glo@\#1@index\endcsname{%
2175   (\string"\@glo@sort\string" %
2176   \string"\@glo@prefix\@glossaryentryfield{\@glo@esclabel}\string") %
2177 }%
2178 \else
```

Entry has a parent

```
2179      \expandafter\protected@xdef\csname glo@#1@index\endcsname{%
2180          \csname glo@\@glo@parent @index\endcsname
2181          (\string"\@glo@sort\string" %
2182          \string"\@glo@prefix\@glossarysubentryfield
2183          {\csname glo@#1@level\endcsname}{\@glo@esclabel}\string") %
2184      }%
2185      \fi
2186  \else
```

Store using `makeindex` syntax.

```
2187      \ifx\@glo@parent\empty
2188      Sanitize \@glo@prefix
2189      \onelevel@sanitize\@glo@prefix
```

Entry doesn't have a parent

```
2189      \expandafter\protected@xdef\csname glo@#1@index\endcsname{%
2190          \@glo@sort\@gls@actualchar\@glo@prefix
2191          \@glossaryentryfield{\@glo@esclabel}%
2192      }%
2193  \else
```

Entry has a parent

```
2194      \expandafter\protected@xdef\csname glo@#1@index\endcsname{%
2195          \csname glo@\@glo@parent @index\endcsname\@gls@levelchar
2196          \@glo@sort\@gls@actualchar\@glo@prefix
2197          \@glossarysubentryfield
2198          {\csname glo@#1@level\endcsname}{\@glo@esclabel}%
2199      }%
2200      \fi
2201  \fi
2202 }
```

1.8 Resetting and unsetting entry flags

Each glossary entry is assigned a conditional of the form `\ifglo@<label>@flag` which determines whether or not the entry has been used (see also `\ifglsused` defined below). These flags can be set and unset using the following macros, but first we need to know if we're in `amsmath`'s `align` environment's measuring pass.

```
\gls@ifnotmeasuring
2203 \AtBeginDocument{%
2204   \@ifpackageloaded{amsmath}%
2205   {\let\gls@ifnotmeasuring\@gls@ifnotmeasuring}%
2206   {}%
2207 }
2208 \newcommand*{\@gls@ifnotmeasuring}[1]{%
2209   \ifmeasuring@
```

```

2210 \else
2211   #1%
2212 \fi
2213 }
2214 \newcommand*{\gls@ifnotmeasuring}[1]{#1}

```

`\glsreset` The command `\glsreset{<label>}` can be used to set the entry flag to indicate that it hasn't been used yet. The required argument is the entry label.

```

2215 \newcommand*{\glsreset}[1]{%
2216   \gls@ifnotmeasuring
2217   {%
2218     \glsdoifexists{#1}%
2219     {%
2220       \expandafter\global\csname glo@\glsdetoklabel{#1}@flagfalse\endcsname
2221     }%
2222   }%
2223 }

```

`\glslocalreset` As above, but with only a local effect:

```

2224 \newcommand*{\glslocalreset}[1]{%
2225   \gls@ifnotmeasuring
2226   {%
2227     \glsdoifexists{#1}%
2228     {%
2229       \expandafter\let\csname ifglo@\glsdetoklabel{#1}@flag\endcsname\iffalse
2230     }%
2231   }%
2232 }

```

`\glsunset` The command `\glsunset{<label>}` can be used to set the entry flag to indicate that it has been used. The required argument is the entry label.

```

2233 \newcommand*{\glsunset}[1]{%
2234   \gls@ifnotmeasuring
2235   {%
2236     \glsdoifexists{#1}%
2237     {%
2238       \expandafter\global\csname glo@\glsdetoklabel{#1}@flagtrue\endcsname
2239     }%
2240   }%
2241 }

```

`\glslocalunset` As above, but with only a local effect:

```

2242 \newcommand*{\glslocalunset}[1]{%
2243   \gls@ifnotmeasuring
2244   {%
2245     \glsdoifexists{#1}%
2246     {%
2247       \expandafter\let\csname ifglo@\glsdetoklabel{#1}@flag\endcsname\iftrue
2248     }%
2249   }%
2250 }

```

```
2248      }%
2249  }%
2250 }
```

Reset all entries for the named glossaries (supplied in a comma-separated list).
Syntax: \glsresetall[<glossary-list>]

```
\glsresetall
2251 \newcommand*{\glsresetall}[1][\@glo@types]{%
2252   \forallglsentries[#1]{\@glsentry}%
2253   {%
2254     \glsreset{\@glsentry}%
2255   }%
2256 }
```

As above, but with only a local effect:

```
\glslocalresetall
2257 \newcommand*{\glslocalresetall}[1][\@glo@types]{%
2258   \forallglsentries[#1]{\@glsentry}%
2259   {%
2260     \glslocalreset{\@glsentry}%
2261   }%
2262 }
```

Unset all entries for the named glossaries (supplied in a comma-separated list).
Syntax: \glsunsetall[<glossary-list>]

```
\glsunsetall
2263 \newcommand*{\glsunsetall}[1][\@glo@types]{%
2264   \forallglsentries[#1]{\@glsentry}%
2265   {%
2266     \glsunset{\@glsentry}%
2267   }%
2268 }
```

As above, but with only a local effect:

```
\glslocalunsetall
2269 \newcommand*{\glslocalunsetall}[1][\@glo@types]{%
2270   \forallglsentries[#1]{\@glsentry}%
2271   {%
2272     \glslocalunset{\@glsentry}%
2273   }%
2274 }
```

1.9 Loading files containing glossary entries

Glossary entries can be defined in an external file. These external files can contain \newglossaryentry and \newacronym commands.¹

¹and any other valid L^AT_EX code that can be used in the preamble.

```
\loadglsentries[<type>]{<filename>}
```

This command will input the file using `\input`. The optional argument specifies to which glossary the entries should be assigned if they haven't used the `type` key. If the optional argument is not specified, the default glossary is used. Only those entries used in the document (via `\glslink`, `\gls`, `\glspl` and uppercase variants or `\glsadd` and `\glsaddall` will appear in the glossary). The mandatory argument is the filename (with or without .tex extension).

```
\loadglsentries  
2275 \newcommand*{\loadglsentries}[2][\@gls@default]{%  
2276   \let\@gls@default\glsdefaulttype  
2277   \def\glsdefaulttype[#1]\input{#2}%  
2278   \let\glsdefaulttype\@gls@default  
2279 }
```

`\loadglsentries` can only be used in the preamble:

```
2280 \onlypreamble{\loadglsentries}
```

1.10 Using glossary entries in the text

Any term that has been defined using `\newglossaryentry` (or `\newacronym`) can be displayed in the text (i.e. outside of the glossary) using one of the commands defined in this section. Unless you use `\glslink`, the way the term appears in the text is determined by `\glsdisplayfirst` (if it is the first time the term has been used) or `\glsdisplay` (for subsequent use). Any formatting commands (such as `\textbf` is governed by `\glstextformat`. By default this just displays the link text "as is".

```
\glstextformat  
2281 \newcommand*{\glstextformat}[1]{#1}
```

`\glsentryfmt` As from version 3.11a, the way in which an entry is displayed is now governed by `\glsentryfmt`. This doesn't take any arguments. The required information is set by commands like `\gls`. To ensure backward compatibility, the default use the old `\glsdisplay` and `\glsdisplayfirst` style of commands

```
2282 \newcommand*{\glsentryfmt}{%  
2283   \@@gls@default@entryfmt\glsdisplayfirst\glsdisplay  
2284 }
```

Format that provides backwards compatibility:

```
2285 \newcommand*{\@@gls@default@entryfmt}[2]{%  
2286   \ifdefempty\glscustomtext  
2287   {  
2288     \glsifplural  
2289   }%
```

Plural form

```
2290      \glscapscase
2291      {%
```

Don't adjust case

```
2292      \ifglsused\glslabel
2293      {%
```

Subsequent use

```
2294      #2{\glsentryplural{\glslabel}}%
2295      {\glsentrydescplural{\glslabel}}%
2296      {\glsentrysymbolplural{\glslabel}}{\glsinsert}%
2297      }%
2298      {%
```

First use

```
2299      #1{\glsentryfirstplural{\glslabel}}%
2300      {\glsentrydescplural{\glslabel}}%
2301      {\glsentrysymbolplural{\glslabel}}{\glsinsert}%
2302      }%
2303      }%
2304      {%
```

Make first letter upper case

```
2305      \ifglsused\glslabel
2306      {%
```

Subsequent use. (Expansion was used in version 3.07 and below in case the name wasn't the first thing to be displayed, but now the user can sort out the upper casing in \defglsentryfmt, which avoids the issues caused by fragile commands.)

```
2307      \ifbool{glscompatible-3.07}{%
2308      {%
2309      \protected@edef@glo@etext{%
2310      #2{\glsentryplural{\glslabel}}%
2311      {\glsentrydescplural{\glslabel}}%
2312      {\glsentrysymbolplural{\glslabel}}{\glsinsert}}%
2313      \xmakefirstuc@glo@etext
2314      }%
2315      {%
2316      #2{\Glsentryplural{\glslabel}}%
2317      {\glsentrydescplural{\glslabel}}%
2318      {\glsentrysymbolplural{\glslabel}}{\glsinsert}}%
2319      }%
2320      }%
2321      {%
```

First use

```
2322      \ifbool{glscompatible-3.07}{%
2323      {%
2324      \protected@edef@glo@etext{%
```

```

2325      #1{\glsentryfirstplural{\glslabel}}%
2326          {\glsentrydescplural{\glslabel}}%
2327          {\glsentrysymbolplural{\glslabel}}{\glsinsert}}%
2328          \xmakefirststuc\@glo@etext
2329      }%
2330      {%
2331          #1{\Glsentryfirstplural{\glslabel}}%
2332              {\glsentrydescplural{\glslabel}}%
2333              {\glsentrysymbolplural{\glslabel}}{\glsinsert}}%
2334      }%
2335      }%
2336      }%
2337      {%

```

Make all upper case

```

2338      \ifglsused\glslabel
2339      {%

```

Subsequent use

```

2340      \mfirststucMakeUppercase{#2{\glsentryplural{\glslabel}}%
2341          {\glsentrydescplural{\glslabel}}%
2342          {\glsentrysymbolplural{\glslabel}}{\glsinsert}}%
2343      }%
2344      {%

```

First use

```

2345      \mfirststucMakeUppercase{#1{\glsentryfirstplural{\glslabel}}%
2346          {\glsentrydescplural{\glslabel}}%
2347          {\glsentrysymbolplural{\glslabel}}{\glsinsert}}%
2348      }%
2349      }%
2350      }%
2351      {%

```

Singular form

```

2352      \glscapscase
2353      {%

```

Don't adjust case

```

2354      \ifglsused\glslabel
2355      {%

```

Subsequent use

```

2356      #2{\glsentrytext{\glslabel}}%
2357          {\glsentrydesc{\glslabel}}%
2358          {\glsentrysymbol{\glslabel}}{\glsinsert}}%
2359      }%
2360      {%

```

First use

```

2361      #1{\glsentryfirst{\glslabel}}%
2362          {\glsentrydesc{\glslabel}}%

```

```

2363           {\glsentrysymbol{\glslabel}}{\glsinsert}%
2364       }%
2365   }%
2366   {%

```

Make first letter upper case

```

2367           \ifglsused\glslabel
2368           {%

```

Subsequent use

```

2369           \ifbool{glscompatible-3.07}%
2370           {%
2371               \protected@edef@glo@etext{%
2372                   #2{\glsentrytext{\glslabel}}%
2373                   {\glsentrydesc{\glslabel}}%
2374                   {\glsentrysymbol{\glslabel}}{\glsinsert}}%
2375               \xmakefirstuc@glo@etext
2376           }%
2377           {%
2378               #2{\Glsentrytext{\glslabel}}%
2379               {\glsentrydesc{\glslabel}}%
2380               {\glsentrysymbol{\glslabel}}{\glsinsert}%
2381           }%
2382           }%
2383           {%

```

First use

```

2384           \ifbool{glscompatible-3.07}%
2385           {%
2386               \protected@edef@glo@etext{%
2387                   #1{\glsentryfirst{\glslabel}}%
2388                   {\glsentrydesc{\glslabel}}%
2389                   {\glsentrysymbol{\glslabel}}{\glsinsert}}%
2390               \xmakefirstuc@glo@etext
2391           }%
2392           {%
2393               #1{\Glsentryfirst{\glslabel}}%
2394               {\glsentrydesc{\glslabel}}%
2395               {\glsentrysymbol{\glslabel}}{\glsinsert}%
2396           }%
2397           }%
2398           {%
2399           {%

```

Make all upper case

```

2400           \ifglsused\glslabel
2401           {%

```

Subsequent use

```

2402           \mfirstucMakeUppercase{#2{\glsentrytext{\glslabel}}%
2403                           {\glsentrydesc{\glslabel}}%}

```

```

2404           {\glsentrysymbol{\glslabel}}{\glsinsert}}}%
2405       }%
2406   {%
2407     First use
2408     \mfirstucMakeUppercase{#1{\glsentryfirst{\glslabel}}}%
2409         {\glsentrydesc{\glslabel}}%
2410         {\glsentrysymbol{\glslabel}}{\glsinsert}}}%
2411     }%
2412     }%
2413     }%
2414   {%
2415     Custom text provided in \glsdisp
2416     \ifglsused{\glslabel}%
2417     {%
2418       Subsequent use
2419       #2{\glscustomtext}%
2420         {\glsentrydesc{\glslabel}}%
2421         {\glsentrysymbol{\glslabel}}{}%
2422     }%
2423     {%
2424       First use
2425       #1{\glscustomtext}%
2426         {\glsentrydesc{\glslabel}}%
2427         {\glsentrysymbol{\glslabel}}{}%
2428     }%
2429   }%
2430 }
```

`\glsgenentryfmt` Define a generic format that just uses the first, text, plural or first plural keys (or the custom text) with the insert text appended.

```

2428 \newcommand*{\glsgenentryfmt}{%
2429   \ifdefempty\glscustomtext
2430   {%
2431     \glsifplural
2432   }%
2433   Plural form
2434   \glscapscase
2435   {%
2436     Don't adjust case
2437     \ifglsused\glslabel
2438     {%
2439       Subsequent use
2440       \glsentryplural{\glslabel}\glsinsert
2441     }%
2442   }%
2443 }
```

First use

```
2440      \glsentryfirstplural{\glslabel}\glsinsert  
2441      }%  
2442      }%  
2443      {%
```

Make first letter upper case

```
2444      \ifglsused\glslabel  
2445      {%
```

Subsequent use.

```
2446      \Glsentryplural{\glslabel}\glsinsert  
2447      }%  
2448      {%
```

First use

```
2449      \Glsentryfirstplural{\glslabel}\glsinsert  
2450      }%  
2451      }%  
2452      {%
```

Make all upper case

```
2453      \ifglsused\glslabel  
2454      {%
```

Subsequent use

```
2455      \mfirstucMakeUppercase  
2456      {\glsentryplural{\glslabel}\glsinsert} %  
2457      }%  
2458      {%
```

First use

```
2459      \mfirstucMakeUppercase  
2460      {\glsentryfirstplural{\glslabel}\glsinsert} %  
2461      }%  
2462      }%  
2463      }%  
2464      {%
```

Singular form

```
2465      \glscapscase  
2466      {%
```

Don't adjust case

```
2467      \ifglsused\glslabel  
2468      {%
```

Subsequent use

```
2469      \glsentrytext{\glslabel}\glsinsert  
2470      }%  
2471      {%
```

First use

```
2472      \glsentryfirst{\glslabel}\glsinsert  
2473      }%  
2474      }%  
2475      {%
```

Make first letter upper case

```
2476      \ifglsused\glslabel  
2477      {%
```

Subsequent use

```
2478      \Glsentrytext{\glslabel}\glsinsert  
2479      }%  
2480      {%
```

First use

```
2481      \Glsentryfirst{\glslabel}\glsinsert  
2482      }%  
2483      }%  
2484      {%
```

Make all upper case

```
2485      \ifglsused\glslabel  
2486      {%
```

Subsequent use

```
2487      \mfirstucMakeUppercase{\glsentrytext{\glslabel}\glsinsert} %  
2488      }%  
2489      {%
```

First use

```
2490      \mfirstucMakeUppercase{\glsentryfirst{\glslabel}\glsinsert} %  
2491      }%  
2492      }%  
2493      }%  
2494      }%  
2495      {%
```

Custom text provided in \glsdisp. (The insert is most likely to be empty at this point.)

```
2496      \glscustomtext\glsinsert  
2497      }%  
2498 }
```

\glsgenacfmt Define a generic acronym format that uses the long and short keys (or their plurals) and \acrfullformat, \firstacronymfont and \acronymfont.

```
2499 \newcommand*{\glsgenacfmt}{%  
2500   \ifdefempty\glscustomtext  
2501   {  
2502     \ifglsused\glslabel  
2503     {%
```

Subsequent use:

```
2504      \glsifplural  
2505      {%
```

Subsequent plural form:

```
2506      \glscapscase  
2507      {%
```

Subsequent plural form, don't adjust case:

```
2508      \acronymfont{\glsentryshortpl{\glslabel}}\glsinsert  
2509      }%  
2510      {%
```

Subsequent plural form, make first letter upper case:

```
2511      \acronymfont{\Glsentryshortpl{\glslabel}}\glsinsert  
2512      }%  
2513      {%
```

Subsequent plural form, all caps:

```
2514      \mfirstrucMakeUppercase  
2515      {\acronymfont{\glsentryshortpl{\glslabel}}\glsinsert} %  
2516      }%  
2517      }%  
2518      {%
```

Subsequent singular form

```
2519      \glscapscase  
2520      {%
```

Subsequent singular form, don't adjust case:

```
2521      \acronymfont{\glsentryshort{\glslabel}}\glsinsert  
2522      }%  
2523      {%
```

Subsequent singular form, make first letter upper case:

```
2524      \acronymfont{\Glsentryshort{\glslabel}}\glsinsert  
2525      }%  
2526      {%
```

Subsequent singular form, all caps:

```
2527      \mfirstrucMakeUppercase  
2528      {\acronymfont{\glsentryshort{\glslabel}}\glsinsert} %  
2529      }%  
2530      }%  
2531      }%  
2532      {%
```

First use:

```
2533      \glsifplural  
2534      {%
```

First use plural form:

```
2535      \glscapscase  
2536      {%
```

First use plural form, don't adjust case:

```
2537     \genplacrfullformat{\glslabel}{\glsinsert}%
2538     }%
2539     {%
```

First use plural form, make first letter upper case:

```
2540     \Genplacrfullformat{\glslabel}{\glsinsert}%
2541     }%
2542     {%
```

First use plural form, all caps:

```
2543     \mfirstucMakeUppercase
2544     {\genplacrfullformat{\glslabel}{\glsinsert}}%
2545     }%
2546     }%
2547     {%
```

First use singular form

```
2548     \glscapscase
2549     {%
```

First use singular form, don't adjust case:

```
2550     \genacrfullformat{\glslabel}{\glsinsert}%
2551     }%
2552     {%
```

First use singular form, make first letter upper case:

```
2553     \Genacrfullformat{\glslabel}{\glsinsert}%
2554     }%
2555     {%
```

First use singular form, all caps:

```
2556     \mfirstucMakeUppercase
2557     {\genacrfullformat{\glslabel}{\glsinsert}}%
2558     }%
2559     }%
2560     }%
2561     }%
2562     {%
```

User supplied text.

```
2563     \glscustomtext
2564     }%
2565 }
```

```
\genacrfullformat \genacrfullformat{<label>}{<insert>}
```

The full format used by \glsgenacfmt (singular).

```
2566 \newcommand*{\genacrfullformat}[2]{%
2567   \glsentrylong{#1}\#2\space
```

```
2568   (\protect\firstacronymfont{\glsentryshort{#1}})%  
2569 }
```

```
\Genacrfullformat \Genacrfullformat{\label}{\insert}
```

As above but makes the first letter upper case.

```
2570 \newcommand*{\Genacrfullformat}[2]{%  
2571   \protected@edef\gls@text{\genacrfullformat{#1}{#2}}%  
2572   \xmakefirstuc\gls@text  
2573 }
```

```
\genplacrfullformat \genplacrfullformat{\label}{\insert}
```

The full format used by \glsgenacfmt (plural).

```
2574 \newcommand*{\genplacrfullformat}[2]{%  
2575   \glsentrylongpl{#1}#2\space  
2576   (\protect\firstacronymfont{\glsentryshortpl{#1}}))%  
2577 }
```

```
\Genplacrfullformat \Genplacrfullformat{\label}{\insert}
```

As above but makes the first letter upper case.

```
2578 \newcommand*{\Genplacrfullformat}[2]{%  
2579   \protected@edef\gls@text{\genplacrfullformat{#1}{#2}}%  
2580   \xmakefirstuc\gls@text  
2581 }
```

\glsdisplayfirst Deprecated. Kept for backward compatibility.

```
2582 \newcommand*{\glsdisplayfirst}[4]{#1#4}
```

\glsdisplay Deprecated. Kept for backward compatibility.

```
2583 \newcommand*{\glsdisplay}[4]{#1#4}
```

\defglsdisplay Deprecated. Kept for backward compatibility.

```
2584 \newcommand*{\defglsdisplay}[2][\glsdefaulttype]{%  
2585   \GlossariesWarning{\string\defglsdisplay\space is now obsolete.^~^J  
2586   Use \string\defglsentryfmt\space instead}%  
2587   \expandafter\def\csname gls@#1@display\endcsname##1##2##3##4{#2}%  
2588   \edef\@gls@doentrydef{%
```

```
2589     \noexpand\defglsentryfmt[#1]{%  
2590       \noexpand\ifcsdef{gls@#1@displayfirst}{%
```

```
2591       {%
```

```
2592         \noexpand\@@gls@default@entryfmt
```

```
2593         {\noexpand\csuse{gls@#1@displayfirst}}%
```

```

2594     {\noexpand\csuse{gls@#1@display}}%
2595   }%
2596   {%
2597     \noexpand\@@gls@default@entryfmt
2598     {\noexpand\glsdisplayfirst}%
2599     {\noexpand\csuse{gls@#1@display}}%
2600   }%
2601 }%
2602 }%
2603 \@gls@doentrydef
2604 }

\defglsdisplayfirst Deprecated. Kept for backward compatibility.
2605 \newcommand*{\defglsdisplayfirst}[2][\glsdefaulttype]{%
2606   \GlossariesWarning{\string\defglsdisplayfirst\space is now obsolete.^^J
2607   Use \string\defglsentryfmt\space instead}%
2608   \expandafter\def\csname gls@#1@displayfirst\endcsname##1##2##3##4{#2}%
2609   \edef\@gls@doentrydef{%
2610     \noexpand\defglsentryfmt[#1]{%
2611       \noexpand\ifcsdef{gls@#1@display}%
2612     }%
2613     \noexpand\@@gls@default@entryfmt
2614     {\noexpand\csuse{gls@#1@displayfirst}}%
2615     {\noexpand\csuse{gls@#1@display}}%
2616   }%
2617 }%
2618   \noexpand\@@gls@default@entryfmt
2619   {\noexpand\csuse{gls@#1@displayfirst}}%
2620   {\noexpand\glsdisplay}%
2621 }%
2622 }%
2623 }%
2624 \@gls@doentrydef
2625 }

```

1.10.1 Links to glossary entries

The links to glossary entries all have a first optional argument that can be used to change the format and counter of the associated entry number. Except for `\glslink` and `\glsdisp`, the commands like `\gls` have a final optional argument that can be used to insert additional text in the link (this will usually be appended, but can be redefined using `\defentryfmt`). It goes against the L^AT_EX norm to have an optional argument after the mandatory arguments, but it makes more sense to write, say, `\gls{label}['s]` rather than, say, `\gls[append='s]{label}`. Since these control sequences are defined to include the final square bracket, spaces will be ignored after them. This is likely

to lead to confusion as most users would not expect, say, `\gls{<label>}` to ignore following spaces, so `\new@ifnextchar` from the package is required.

The following keys can be used in the first optional argument. The counter key checks that the value is the name of a valid counter.

```
2626 \define@key{glslink}{counter}{%
2627   \ifcsundef{c@#1}%
2628   {%
2629     \PackageError{glossaries}%
2630     {There is no counter called ‘#1’}%
2631     {%
2632       The counter key should have the name of a valid counter
2633       as its value%
2634     }%
2635   }%
2636   {%
2637     \def\@gls@counter{#1}%
2638   }%
2639 }
```

The value of the format key should be the name of a command (without the initial backslash) that has a single mandatory argument which can be used to format the associated entry number.

```
2640 \define@key{glslink}{format}{%
2641   \def\@glsnumberformat{#1}}
```

The hyper key is a boolean key, it can either have the value true or false, and indicates whether or not to make a hyperlink to the relevant glossary entry. If hyper is false, an entry will still be made in the glossary, but the given text won't be a hyperlink.

```
2642 \define@boolkey{glslink}{hyper}[true]{}
```

Initialise hyper key.

```
2643 \ifdef{\hyperlink}{\KV@glslink@hypertrue}{\KV@glslink@hyperfalse}
```

The local key is a boolean key. If true this indicates that commands such as `\gls` should only do a local reset rather than a global one.

```
2644 \define@boolkey{glslink}{local}[true]{}
```

The original `\glsifhyper` command isn't particularly useful as it makes more sense to check the actual hyperlink setting rather than testing whether the starred or unstarred version has been used. Therefore, as from version 4.08, `\glsifhyper` is deprecated in favour of `\glsifhyperon`. In case there is a particular need to know whether the starred or unstarred version was used, provide a new command that determines whether the *-version, +-version or unmodified version was used.

```
\glslinkvar{<unmodified case>}{<star case>}{<plus case>}
```

```
\glslinkvar Initialise to unmodified case.  
2645 \newcommand*{\glslinkvar}[3]{#1}
```

```
\glsifhyper Now deprecated.  
2646 \newcommand*{\glsifhyper}[2]{%  
2647  \glslinkvar{#1}{#2}{#1} %  
2648  \GlossariesWarning{\string\glsifhyper\space is deprecated. Did  
2649  you mean \string\glsifhyperon\space or \string\glslinkvar?} %  
2650 }
```

\@gls@hyp@opt Used by the commands such as \glslink to determine whether to modify the hyper option.

```
2651 \newcommand*{\@gls@hyp@opt}[1]{%  
2652  \let\glslinkvar\@firstofthree  
2653  \let\@gls@hyp@opt@cs\relax  
2654  \@ifstar{\s@gls@hyp@opt}{%  
2655  {\@ifnextchar+{\@firstoftwo{\p@gls@hyp@opt}}{#1}}%  
2656 }
```

\s@gls@hyp@opt Starred version

```
2657 \newcommand*{\s@gls@hyp@opt}[1][]{%  
2658  \let\glslinkvar\@secondofthree  
2659  \@gls@hyp@opt@cs[hyper=false,#1]}
```

\p@gls@hyp@opt Plus version

```
2660 \newcommand*{\p@gls@hyp@opt}[1][]{%  
2661  \let\glslinkvar\@thirdofthree  
2662  \@gls@hyp@opt@cs[hyper=true,#1]}
```

Syntax:

```
\glslink[<options>]{<label>}{<text>}
```

Display *<text>* in the document, and add the entry information for *<label>* into the relevant glossary. The optional argument should be a key value list using the *glslink* keys defined above.

There is also a starred version:

```
\glslink*{<options>}{<label>}{<text>}
```

which is equivalent to \glslink[hyper=false,<options>]{<label>}{<text>}

First determine which version is being used:

```
\glslink  
2663 \newrobustcmd*{\glslink}{%  
2664  \@gls@hyp@opt\@gls@@link  
2665 }
```

\@gls@link The main part of the business is in \@gls@link which shouldn't check if the term is defined as it's called by \gls etc which also perform that check.

```
2666 \newcommand*{\@gls@link}[3] []{%
2667   \ifglsentryexists{#2}%
2668   {%
2669     \let\do@gls@link@checkfirsthyper\relax
2670     \@gls@link[#1]{#2}{#3}%
2671   }{%
2672     \PackageError{glossaries}{Glossary entry ‘#2’ has not been
2673     defined}{You need to define a glossary entry before you
2674     can use it.}%
2675   \glstextformat{#3}%
2676 }%
2677 }
```

Display the specified text. (The entry doesn't exist so there's nothing to link it to.)

```
2675   \glstextformat{#3}%
2676 }%
2677 }
```

ink@checkfirsthyper Check for first use and switch off hyper key if hyperlink not wanted. (Should be off if first use and hyper=false is on or if first use and both the entry is in an acronym list and the acrfootnote setting is on.) This assumes the glossary type is stored in \glstype and the label is stored in \glslabel.

```
2678 \newcommand*{\@gls@link@checkfirsthyper}{}%
2679   \ifglsused{\glslabel}%
2680   {%
2681   }%
2682   {%
2683     \gls@checkisacronymlist\glstype
2684     \ifglshyperfirst
2685       \ifglsisacronymlist
2686         \ifglsacrfootnote
2687           \KV@glslink@hyperfalse
2688         \fi
2689       \fi
2690     \else
2691       \KV@glslink@hyperfalse
2692     \fi
2693   }%
```

Allow user to hook into this

```
2694   \glslinkcheckfirsthyperhook
2695 }
```

checkfirsthyperhook Allow used to hook into the \gls@link@checkfirsthyper macro

```
2696 \newcommand*{\glslinkcheckfirsthyperhook}{}%
```

\@gls@link

```
2697 \def\@gls@link[#1]{#2}{#3}{%
```

Inserting \leavevmode suggested by Donald Arseneau (avoids problem with tabularx).

```
2698     \leavevmode
2699     \edef\glslabel{\glsdetoklabel{#2}}%
Save options in \@gls@link@opts and label in \@gls@link@label
2700     \def\@gls@link@opts{\#1}%
2701     \let\@gls@link@label\glslabel
2702     \def\@glsnumberformat{\glsnumberformat}%
2703     \edef\@gls@counter{\csname glo@\glslabel @counter\endcsname}%
```

If this is in one of the “nohypertypes” glossaries, suppress the hyperlink by default

```
2704     \edef\glstype{\csname glo@\glslabel @type\endcsname}%
```

Save original setting

```
2705     \let\org@ifKV@glslink@hyper\ifKV@glslink@hyper
```

Switch off hyper setting if the glossary type has been identified in nohyperlist.

```
2706     \expandafter\DTLifinlist\expandafter
2707         {\glstype}{\@gls@nohyperlist}%
2708     {%
2709         \KV@glslink@hyperfalse
2710     }%
2711     {%
2712     }%
```

Macros must set this before calling \@gls@link. The commands that check the first use flag should set this to \@gls@link@checkfirsthyper otherwise it should be set to \relax.

```
2713     \do@gls@link@checkfirsthyper
2714     \setkeys{glslink}{#1}%
```

Define \glsifhyperon

```
2715     \ifKV@glslink@hyper
2716         \let\glsifhyperon\@firstoftwo
2717     \else
2718         \let\glsifhyperon\@secondoftwo
2719     \fi
```

Store the entry's counter in \theglsentrycounter

```
2720     \@gls@saveentrycounter
```

Define sort key if necessary:

```
2721     \@gls@setsort{\glslabel}%
```

(De-tok'ing done by @@do@wrglossary)

```
2722     @@do@wrglossary{#2}%
2723     \ifKV@glslink@hyper
2724         \@glslink{\glolinkprefix\glslabel}{\glstextformat{#3}}%
2725     \else
```

```

2726     \glstextformat{#3}%
2727     \fi
    Restore original setting
2728     \let\ifKV@glslink@hyper\org@ifKV@glslink@hyper
2729 }

\gloprefix
2730 \newcommand*{\gloprefix}{glo:}

\glsentrycounter Set default value of entry counter
2731 \def\glsentrycounter{\glscounter}%

\gls@saveentrycounter Need to check if using equation counter in align environment:
2732 \newcommand*{\@gls@saveentrycounter}{%
2733   \def\@gls@Hcounter{}%
    Are we using equation counter?
2734   \ifthenelse{\equal{\@gls@counter}{equation}}{%
2735     {
      If we're in align environment, \xatlevel@ will be defined. (Can't test for
      \@currenvir as may be inside an inner environment.)
2736     \ifcsundef{xatlevel@}%
2737       {%
2738         \edef\the\glsentrycounter{\expandafter\noexpand
2739           \csname the\@gls@counter\endcsname}%
2740       }%
2741       {%
2742         \ifx\xatlevel@\empty
2743           \edef\the\glsentrycounter{\expandafter\noexpand
2744             \csname the\@gls@counter\endcsname}%
2745         \else
2746           \savecounters@
2747           \advance\c@equation by 1\relax
2748           \edef\the\glsentrycounter{\csname the\@gls@counter\endcsname}%
    Check if hyperref version of this counter
2749   \ifcsundef{theH\@gls@counter}%
2750     {%
2751       \def\@gls@Hcounter{\the\glsentrycounter}%
2752     }%
2753     {%
2754       \def\@gls@Hcounter{\csname theH\@gls@counter\endcsname}%
2755     }%
2756     \protected@edef\theH\glsentrycounter{\@gls@Hcounter}%
2757     \restorecounters@
2758   \fi
2759 }%
2760 }%
2761 {%

```

Not using equation counter so no special measures:

```
2762     \edef\theglsentrycounter{\expandafter\noexpand
2763         \csname the\@gls@counter\endcsname}%
2764 }
```

Check if hyperref version of this counter

```
2765 \ifx\@gls@Hcounter\@empty
2766   \ifcsundef{theH\@gls@counter}%
2767   {%
2768     \def\theHglsentrycounter{\theglsentrycounter}%
2769   }%
2770   {%
2771     \protected@edef\theHglsentrycounter{\expandafter\noexpand
2772       \csname theH\@gls@counter\endcsname}%
2773   }%
2774 \fi
2775 }
```

\@set@glo@numformat Set the formatting information in the format required by `makeindex`. The first argument is the format specified by the user (via the `format` key), the second argument is the name of the counter used to indicate the location, the third argument is a control sequence which stores the required format and the fourth argument (new to v3.0) is the hyper-prefix.

```
2776 \def\@set@glo@numformat#1#2#3#4{%
2777   \expandafter\@glo@check@mkidxrangechar#3\@nil
2778   \protected@edef#1{%
2779     \@glo@prefix setentrycounter[#4]{#2}%
2780     \expandafter\string\csname\@glo@suffix\endcsname
2781   }%
2782   \@gls@checkmkidxchars#1%
2783 }
```

Check to see if the given string starts with a (or). If it does set `\@glo@prefix` to the starting character, and `\@glo@suffix` to the rest (or `glsnumberformat` if there is nothing else), otherwise set `\@glo@prefix` to nothing and `\@glo@suffix` to all of it.

```
2784 \def\@glo@check@mkidxrangechar#1#2\@nil{%
2785 \if#1(\relax
2786   \def\@glo@prefix{()}%
2787   \if\relax#2\relax
2788     \def\@glo@suffix{glsnumberformat}%
2789   \else
2790     \def\@glo@suffix{#2}%
2791   \fi
2792 \else
2793   \if#1)\relax
2794     \def\@glo@prefix{}%
2795   \if\relax#2\relax
```

```

2796      \def\@glo@suffix{glsnumberformat}%
2797      \else
2798          \def\@glo@suffix{#2}%
2799      \fi
2800  \else
2801      \def\@glo@prefix{} \def\@glo@suffix{#1#2}%
2802  \fi
2803 \fi}

```

\@gls@escbsdq Escape backslashes and double quote marks. The argument must be a control sequence.

```

2804 \newcommand*{\@gls@escbsdq}[1]{%
2805   \def\@gls@checkedmkidx{}%
2806   \let\gls@xdystring=#1\relax
2807   \onelevel@sanitize\gls@xdystring
2808   \edef\do@gls@xdycheckbackslash{%
2809     \noexpand\@gls@xdycheckbackslash\gls@xdystring\noexpand\@nil
2810     \@backslashchar\@backslashchar\noexpand\@null}%
2811   \do@gls@xdycheckbackslash
2812   \expandafter\@gls@updatechecked\@gls@checkedmkidx{\gls@xdystring}%
2813   \def\@gls@checkedmkidx{}%
2814   \expandafter\@gls@xdycheckquote\gls@xdystring\@nil""\@null
2815   \expandafter\@gls@updatechecked\@gls@checkedmkidx{\gls@xdystring}%

```

Unsanitize \gls@numberpage, \gls@alphpage, \gls@Alphpage and \glsromanpage
(thanks to David Carlise for the suggestion.)

```

2816   \for\@gls@tmp:=\gls@protected@pagefmts\do
2817   {%
2818     \edef\@gls@sanitized@tmp{\expandafter\@gobble\string\\\expandonce\@gls@tmp}%
2819     \onelevel@sanitize\@gls@sanitized@tmp
2820     \edef\gls@dosubst{%
2821       \noexpand\DTLsubstituteall\noexpand\gls@xdystring
2822       {\@gls@sanitized@tmp}{\expandonce\@gls@tmp}%
2823     }%
2824     \gls@dosubst
2825   }%

```

Assign to required control sequence

```

2826   \let#1=\gls@xdystring
2827 }

```

Catch special characters (argument must be a control sequence):

\gls@checkmkidxchars

```

2828 \newcommand{\@gls@checkmkidxchars}[1]{%
2829   \ifglsxindy
2830     \gls@escbsdq{#1}%
2831   \else
2832     \def\@gls@checkedmkidx{}%
2833     \expandafter\@gls@checkquote#1\@nil""\@null

```

```

2834 \expandafter\@gls@updatechecked\@gls@checkedmidx{#1}%
2835 \def\@gls@checkedmidx{}%
2836 \expandafter\@gls@checkescquote#1\@nil\""\null
2837 \expandafter\@gls@updatechecked\@gls@checkedmidx{#1}%
2838 \def\@gls@checkedmidx{}%
2839 \expandafter\@gls@checkescactual#1\@nil\?\?\null
2840 \expandafter\@gls@updatechecked\@gls@checkedmidx{#1}%
2841 \def\@gls@checkedmidx{}%
2842 \expandafter\@gls@checkactual#1\@nil??\null
2843 \expandafter\@gls@updatechecked\@gls@checkedmidx{#1}%
2844 \def\@gls@checkedmidx{}%
2845 \expandafter\@gls@checkbar#1\@nil||\null
2846 \expandafter\@gls@updatechecked\@gls@checkedmidx{#1}%
2847 \def\@gls@checkedmidx{}%
2848 \expandafter\@gls@checkescbar#1\@nil|||\null
2849 \expandafter\@gls@updatechecked\@gls@checkedmidx{#1}%
2850 \def\@gls@checkedmidx{}%
2851 \expandafter\@gls@checklevel#1\@nil!!\null
2852 \expandafter\@gls@updatechecked\@gls@checkedmidx{#1}%
2853 \fi
2854 }

```

Update the control sequence and strip trailing \@nil:

```
\@gls@updatechecked
2855 \def\@gls@updatechecked#1\@nil#2{\def#2{#1}}
```

\@gls@tmpb Define temporary token
2856 \newtoks\@gls@tmpb

\@gls@checkquote Replace " " with " " since " " is a makeindex special character.

```

2857 \def\@gls@checkquote#1"#2"#3\null{%
2858   \@gls@tmpb=\expandafter{\@gls@checkedmidx}%
2859   \toks@={#1}%
2860   \ifx\null#2\null
2861   \ifx\null#3\null
2862     \edef\@gls@checkedmidx{\the\@gls@tmpb\the\toks@}%
2863     \def\@@gls@checkquote{\relax}%
2864   \else
2865     \edef\@gls@checkedmidx{\the\@gls@tmpb\the\toks@%
2866       \@gls@quotechar\@gls@quotechar\@gls@quotechar\@gls@quotechar}%
2867     \def\@@gls@checkquote{\@gls@checkquote#3\null}%
2868   \fi
2869 \else
2870   \edef\@gls@checkedmidx{\the\@gls@tmpb\the\toks@%
2871     \@gls@quotechar\@gls@quotechar}%
2872   \ifx\null#3\null
2873     \def\@@gls@checkquote{\@gls@checkquote#2"\null}%
2874 \else

```

```

2875     \def\@@gls@checkquote{\@gls@checkquote#2"#3\null}%
2876     \fi
2877     \fi
2878     \@@gls@checkquote
2879 }

```

\@gls@checkescquote Do the same for \":

```

2880 \def\@gls@checkescquote#1\"#2\"#3\null{%
2881   \@gls@tmpb=\expandafter{\@gls@checkedmkidx}%
2882   \toks@={#1}%
2883   \ifx\null#2\null
2884     \ifx\null#3\null
2885       \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@}%
2886       \def\@@gls@checkescquote{\relax}%
2887     \else
2888       \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@%
2889         \@gls@quotechar\string\"@\gls@quotechar%
2890         \@gls@quotechar\string\"@\gls@quotechar}%
2891       \def\@@gls@checkescquote{\@gls@checkescquote#3\null}%
2892     \fi
2893   \else
2894     \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@%
2895       \@gls@quotechar\string\"@\gls@quotechar}%
2896     \ifx\null#3\null
2897       \def\@@gls@checkescquote{\@gls@checkescquote#2\""\null}%
2898     \else
2899       \def\@@gls@checkescquote{\@gls@checkescquote#2\"#3\null}%
2900     \fi
2901   \fi
2902 \@@gls@checkescquote
2903 }

```

@gls@checkescactual Similarly for \? (which is replaces @ as makeindex's special character):

```

2904 \def\@gls@checkescactual#1\?#2\?#3\null{%
2905   \@gls@tmpb=\expandafter{\@gls@checkedmkidx}%
2906   \toks@={#1}%
2907   \ifx\null#2\null
2908     \ifx\null#3\null
2909       \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@}%
2910       \def\@@gls@checkescactual{\relax}%
2911     \else
2912       \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@%
2913         \@gls@quotechar\string\"@\gls@actualchar%
2914         \@gls@quotechar\string\"@\gls@actualchar}%
2915       \def\@@gls@checkescactual{\@gls@checkescactual#3\null}%
2916     \fi
2917   \else
2918     \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@%
2919       \@gls@quotechar\string\"@\gls@actualchar}%

```

```

2920   \ifx\null#3\null
2921     \def\@gls@checkescactual{\@gls@checkescactual#2\?\\?\null}%
2922   \else
2923     \def\@gls@checkescactual{\@gls@checkescactual#2\?#3\null}%
2924   \fi
2925 \fi
2926 \@@gls@checkescactual
2927 }

```

\@gls@checkescbar Similarly for \!:

```

2928 \def\@gls@checkescbar#1\|#2\|#3\null{%
2929   \@gls@tmpb=\expandafter{\@gls@checkedmkidx}%
2930   \toks@={#1}%
2931   \ifx\null#2\null
2932     \ifx\null#3\null
2933       \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@}%
2934       \def\@gls@checkescbar{\relax}%
2935     \else
2936       \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@%
2937         \@gls@quotechar\string\"@\gls@encapchar%
2938         \@gls@quotechar\string\"@\gls@encapchar}%
2939       \def\@gls@checkescbar{\@gls@checkescbar#3\null}%
2940     \fi
2941   \else
2942     \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@%
2943       \@gls@quotechar\string\"@\gls@encapchar}%
2944     \ifx\null#3\null
2945       \def\@gls@checkescbar{\@gls@checkescbar#2\|\|\|\\null}%
2946     \else
2947       \def\@gls@checkescbar{\@gls@checkescbar#2\|#3\null}%
2948     \fi
2949   \fi
2950 \@@gls@checkescbar
2951 }

```

\@gls@checkesclevel Similarly for \!:

```

2952 \def\@gls@checkesclevel#1\!#2\!#3\null{%
2953   \@gls@tmpb=\expandafter{\@gls@checkedmkidx}%
2954   \toks@={#1}%
2955   \ifx\null#2\null
2956     \ifx\null#3\null
2957       \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@}%
2958       \def\@gls@checkesclevel{\relax}%
2959     \else
2960       \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@%
2961         \@gls@quotechar\string\"@\gls@levelchar%
2962         \@gls@quotechar\string\"@\gls@levelchar}%
2963       \def\@gls@checkesclevel{\@gls@checkesclevel#3\null}%
2964     \fi

```

```

2965 \else
2966   \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@%
2967     \@gls@quotechar\string\"@\gls@levelchar}%
2968   \ifx\null#3\null
2969     \def\@@gls@checkesclevel{\@gls@checkesclevel#2\!#\!\!\\null}%
2970   \else
2971     \def\@@gls@checkesclevel{\@gls@checkesclevel#2\!#3\null}%
2972   \fi
2973 \fi
2974 \@@gls@checkesclevel
2975 }

```

\@gls@checkbar and for |:

```

2976 \def\@gls@checkbar#1|#2|#3\null{%
2977   \@gls@tmpb=\expandafter{\@gls@checkedmkidx}%
2978   \toks@={#1}%
2979   \ifx\null#2\null
2980     \ifx\null#3\null
2981       \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@}%
2982       \def\@@gls@checkbar{\relax}%
2983     \else
2984       \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@%
2985         \@gls@quotechar\@gls@encapchar\@gls@quotechar\@gls@encapchar}%
2986       \def\@@gls@checkbar{\@gls@checkbar#3\null}%
2987     \fi
2988   \else
2989     \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@%
2990       \@gls@quotechar\@gls@encapchar}%
2991     \ifx\null#3\null
2992       \def\@@gls@checkbar{\@gls@checkbar#2||\null}%
2993     \else
2994       \def\@@gls@checkbar{\@gls@checkbar#2|#3\null}%
2995     \fi
2996   \fi
2997 \@@gls@checkbar
2998 }

```

\@gls@checklevel and for !:

```

2999 \def\@gls@checklevel#!#2|#3\null{%
3000   \@gls@tmpb=\expandafter{\@gls@checkedmkidx}%
3001   \toks@={#1}%
3002   \ifx\null#2\null
3003     \ifx\null#3\null
3004       \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@}%
3005       \def\@@gls@checklevel{\relax}%
3006     \else
3007       \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@%
3008         \@gls@quotechar\@gls@levelchar\@gls@quotechar\@gls@levelchar}%
3009       \def\@@gls@checklevel{\@gls@checklevel#3\null}%

```

```

3010     \fi
3011   \else
3012     \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
3013       \@gls@quotechar\@gls@levelchar}%
3014     \ifx\null#3\null
3015       \def\@gls@checklevel{\@gls@checklevel#2!!\null}%
3016     \else
3017       \def\@gls@checklevel{\@gls@checklevel#2#!#3\null}%
3018     \fi
3019   \fi
3020 \@@gls@checklevel
3021 }

```

\@gls@checkactual and for ?:

```

3022 \def\@gls@checkactual#1?#2?#3\null{%
3023   \@gls@tmpb=\expandafter{\@gls@checkedmkidx}%
3024   \toks@={#1}%
3025   \ifx\null#2\null
3026     \ifx\null#3\null
3027       \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@}%
3028       \def\@gls@checkactual{\relax}%
3029     \else
3030       \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
3031         \@gls@quotechar\@gls@actualchar\@gls@quotechar\@gls@actualchar}%
3032       \def\@gls@checkactual{\@gls@checkactual#3\null}%
3033     \fi
3034   \else
3035     \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
3036       \@gls@quotechar\@gls@actualchar}%
3037     \ifx\null#3\null
3038       \def\@gls@checkactual{\@gls@checkactual#2??\null}%
3039     \else
3040       \def\@gls@checkactual{\@gls@checkactual#2?#3\null}%
3041     \fi
3042   \fi
3043 \@@gls@checkactual
3044 }

```

\@gls@xdycheckquote As before but for use with xindy

```

3045 \def\@gls@xdycheckquote#1"#2"#3\null{%
3046   \@gls@tmpb=\expandafter{\@gls@checkedmkidx}%
3047   \toks@={#1}%
3048   \ifx\null#2\null
3049     \ifx\null#3\null
3050       \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@}%
3051       \def\@gls@xdycheckquote{\relax}%
3052     \else
3053       \edef\@gls@checkedmkidx{\the\@gls@tmpb\the\toks@
3054         \string\""\string"}%

```

```

3055     \def\@@gls@xdycheckquote{\@gls@xdycheckquote#3\null}%
3056     \fi
3057 \else
3058     \edef\@gls@checkedmidx{\the\@gls@tmpb\the\toks@
3059         \string"}%
3060     \ifx\null#3\null
3061         \def\@@gls@xdycheckquote{\@gls@xdycheckquote#2"\null}%
3062     \else
3063         \def\@@gls@xdycheckquote{\@gls@xdycheckquote#2"#3\null}%
3064     \fi
3065 \fi
3066 \@@gls@xdycheckquote
3067 }

```

s@xdycheckbackslash Need to escape all backslashes for xindy. Define command that will define
`\@gls@xdycheckbackslash`

```

3068 \edef\def@gls@xdycheckbackslash{%
3069   \noexpand\def\noexpand\@gls@xdycheckbackslash##1\@backslashchar
3070   ##2\@backslashchar##3\noexpand\null{%
3071     \noexpand\@gls@tmpb=\noexpand\expandafter
3072       {\noexpand\@gls@checkedmidx}%
3073     \noexpand\toks@={##1}%
3074     \noexpand\ifx\noexpand\null##2\noexpand\null
3075       \noexpand\ifx\noexpand\null##3\noexpand\null
3076         \noexpand\edef\noexpand\@gls@checkedmidx{%
3077           \noexpand\the\noexpand\@gls@tmpb\noexpand\the\noexpand\toks@}%
3078         \noexpand\def\noexpand\@@gls@xdycheckbackslash{\relax}%
3079     \noexpand\else
3080       \noexpand\edef\noexpand\@gls@checkedmidx{%
3081         \noexpand\the\noexpand\@gls@tmpb\noexpand\the\noexpand\toks@%
3082         \@backslashchar\@backslashchar\@backslashchar\@backslashchar}%
3083     \noexpand\def\noexpand\@@gls@xdycheckbackslash{%
3084       \noexpand\@gls@xdycheckbackslash##3\noexpand\null}%
3085     \noexpand\fi
3086   \noexpand\else
3087     \noexpand\edef\noexpand\@gls@checkedmidx{%
3088       \noexpand\the\noexpand\@gls@tmpb\noexpand\the\noexpand\toks@%
3089       \@backslashchar\@backslashchar}%
3090     \noexpand\ifx\noexpand\null##3\noexpand\null
3091       \noexpand\def\noexpand\@@gls@xdycheckbackslash{%
3092         \noexpand\@gls@xdycheckbackslash##2\@backslashchar
3093         \@backslashchar\noexpand\null}%
3094     \noexpand\else
3095       \noexpand\def\noexpand\@@gls@xdycheckbackslash{%
3096         \noexpand\@gls@xdycheckbackslash##2\@backslashchar
3097         ##3\noexpand\null}%
3098     \noexpand\fi
3099   \noexpand\fi
3100 \noexpand\@@gls@xdycheckbackslash

```

```

3101 }%
3102 }

Now go ahead and define \@gls@xdycheckbackslash
3103 \def@gls@xdycheckbackslash

\glsdohypertarget
3104 \newlength\gls@tmpplen
3105 \newcommand*\glsdohypertarget[2]{%
3106   \settoheight{\gls@tmpplen}{#2}%
3107   \raisebox{\gls@tmpplen}{\hypertarget{#1}{}}
3108 }

```

\glsdohyperlink
3109 \newcommand*\glsdohyperlink[2]{\hyperlink{#1}{#2}}

\@glslink If \hyperlink is not defined \@glslink ignores its first argument and just does the second argument, otherwise it is equivalent to \hyperlink.

```

3110 \ifcsundef{hyperlink}%
3111 {%
3112   \let\@glslink\@secondoftwo
3113 }%
3114 {%
3115   \let\@glslink\glsdohyperlink
3116 }

```

\@glstarget If \hypertarget is not defined, \@glstarget ignores its first argument and just does the second argument, otherwise it is equivalent to \hypertarget.

```

3117 \ifcsundef{hypertarget}%
3118 {%
3119   \let\@glstarget\@secondoftwo
3120 }%
3121 {%
3122   \let\@glstarget\glsdohypertarget
3123 }

```

Glossary hyperlinks can be disabled using \glsdisablehyper (effect can be localised):

```
\glsdisablehyper
3124 \newcommand{\glsdisablehyper}{%
3125   \KV@glslink@hyperfalse
3126   \let\@glslink\@secondoftwo
3127   \let\@glstarget\@secondoftwo
3128 }
```

Glossary hyperlinks can be enabled using \glsenablehyper (effect can be localised):

```
\glsenablehyper
3129 \newcommand{\glsenablehyper}{%
3130   \KV@glslink@hypertrue
3131   \let\@glslink\glsdohyperlink
3132   \let\@glstarget\glsdohypertarget
3133 }
```

Provide some convenience commands if not already defined:

```
3134 \providemode{\@firstofthree}[3]{#1}
3135 \providemode{\@secondofthree}[3]{#2}
```

Syntax:

```
\gls[<options>]{<label>} [<insert text>]
```

Link to glossary entry using singular form. The link text is taken from the value of the text or first keys used when the entry was defined.

The first optional argument is a key-value list, the same as `\glslink`, the mandatory argument is the entry label. After the mandatory argument, there is another optional argument to insert extra text in the link text (the location of the inserted text is governed by `\glsdisplay` and `\glsdisplayfirst`). As with `\glslink` there is a starred version which is the same as the unstarred version but with the `hyper` key set to `false`. (Additional options can also be specified in the first optional argument.)

First determine which version is being used:

```
\gls
3136 \newrobustcmd*{\gls}{\@gls@hyp@opt@gls}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
\@gls
3137 \newcommand*{\@gls}[2][]{%
3138   \new@ifnextchar[\{\@gls@{#1}{#2}\}{\@gls@{#1}{#2}[]}%
3139 }
```

\@gls@ Read in the final optional argument:

```
3140 \def\@gls@#1#2[#3]{%
3141   \glsdoifexists{#2}%
3142   {%
3143     \let\do@gls@link@checkfirsthyper\@gls@link@checkfirsthyper
3144     \let\glsifplural\@secondoftwo
3145     \let\glscapscase\@firstofthree
3146     \let\glscustomtext\@empty
3147     \def\glsinsert{#3}%
3148   }%
```

Determine what the link text should be (this is stored in `\@glo@text`) Note that `\@gls@link` sets `\glstype`.

```
3148 \def\@glo@text{\csname gls@\glstype @entryfmt\endcsname}%
Call \@gls@link. If footnote package option has been used and the glossary
type is \acronymtype, suppress hyperlink for first use. Likewise if the hyper-
first=false package option is used.
3149 \@gls@link[#1]{#2}{\@glo@text}%
Indicate that this entry has now been used
3150 \ifKV@glslink@local
3151   \glslocalunset{#2}%
3152 \else
3153   \glsunset{#2}%
3154 \fi
3155 }%
3156 }
```

`\Gls` behaves like `\gls`, but the first letter of the link text is converted to uppercase (note that if the first letter has an accent, the accented letter will need to be grouped when you define the entry). It is mainly intended for terms that start a sentence:

```
\Gls
3157 \newrobustcmd*\Gls{\@gls@hyp@opt\@Gls}
Defined the un-starred form. Need to determine if there is a final optional ar-
gument
3158 \newcommand*\@Gls[2][]{%
3159   \new@ifnextchar[\{@Gls@#1}{#2}{\@Gls@#1}{#2}[] }%
3160 }
```

`\@Gls@` Read in the final optional argument:

```
3161 \def\@Gls@#1#2[#3]{%
3162   \glsdoifexists{#2}%
3163   {%
3164     \let\do@gls@link@checkfirsthyper\@gls@link@checkfirsthyper
3165     \let\glsifplural\@secondoftwo
3166     \let\glscapscase\@secondofthree
3167     \let\glscustomtext\@empty
3168     \def\glsinsert{#3}%
3169 }
```

Determine what the link text should be (this is stored in `\@glo@text`) Note that `\@gls@link` sets `\glstype`.

```
3169 \def\@glo@text{\csname gls@\glstype @entryfmt\endcsname}%
Call \@gls@link If footnote package option has been used and the glossary
type is \acronymtype, suppress hyperlink for first use. Likewise if the hyper-
first=false package option is used.
3170 \@gls@link[#1]{#2}{\@glo@text}%
```

Indicate that this entry has now been used

```
3171     \ifKV@glslink@local
3172         \glslocalunset{#2}%
3173     \else
3174         \glsunset{#2}%
3175     \fi
3176 }%
3177 }
```

\GLS behaves like \gls, but the link text is converted to uppercase:

```
\GLS
3178 \newrobustcmd*\{\GLS\}{\gls@hyp@opt\GLS}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3179 \newcommand*\@\GLS[2][]{%
3180   \new@ifnextchar[\{@GLS@{#1}{#2}\}{\@GLS@{#1}{#2}[]}}%
3181 }
```

\@GLS@ Read in the final optional argument:

```
3182 \def\@GLS@#1#2[#3]{%
3183   \glsdoifexists{#2}%
3184   {%
3185     \let\do@gls@link@checkfirsthyper\gls@link@checkfirsthyper
3186     \let\glsifplural\secondoftwo
3187     \let\glscapscase\thirdofthree
3188     \let\glscustomtext\empty
3189     \def\glsinsert{#3}%
3190 }
```

Determine what the link text should be (this is stored in \@glo@text). Note that \gls@link sets \glstype.

```
3190 \def\@glo@text{\csname gls@\glstype\entryfmt\endcsname}%
```

Call \gls@link If footnote package option has been used and the glossary type is \acronymtype, suppress hyperlink for first use. Likewise if the hyper-first=false package option is used.

```
3191 \gls@link[#1]{#2}{\glo@text}%
3192 
```

Indicate that this entry has now been used

```
3193 \ifKV@glslink@local
3194     \glslocalunset{#2}%
3195 \else
3196     \glsunset{#2}%
3197 \fi
3198 }
```

\glspl behaves in the same way as \gls except it uses the plural form.

```
\glspl
3199 \newrobustcmd*{\gls@hyp@opt@glspl}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3200 \newcommand*{\glspl}[2][]{%
3201   \new@ifnextchar[{\glspl@#1}{#2}}{\glspl@#1}{#2}[] }%
3202 }
```

\glspl@ Read in the final optional argument:

```
3203 \def\glspl@#1#2[#3]{%
3204   \glsdoifexists{#2}%
3205   {%
3206     \let\do@gls@link@checkfirsthyper\gls@link@checkfirsthyper
3207     \let\glsifplural\firstoftwo
3208     \let\glscapscase\firstofthree
3209     \let\glscustomtext\empty
3210     \def\glsinsert{#3}%
3211 }
```

Determine what the link text should be (this is stored in \glo@text) Note that \gls@link sets \glstype.

```
3211 \def\glo@text{\csname gls@\glstype\entryfmt\endcsname}%
Call \gls@link. If footnote package option has been used and the glossary type is \acronymtype, suppress hyperlink for first use. Likewise if the hyperfirst=false package option is used.
```

```
3212 \gls@link[#1]{#2}{\glo@text}%

```

Indicate that this entry has now been used

```
3213 \ifKV@glslink@local
3214   \glslocalunset{#2}%
3215 \else
3216   \glsunset{#2}%
3217 \fi
3218 }%
3219 }
```

\Glspl behaves in the same way as \glspl, except that the first letter of the link text is converted to uppercase (as with \Gls, if the first letter has an accent, it will need to be grouped).

```
\Glspl
3220 \newrobustcmd*{\Glspl}{\gls@hyp@opt@Glspl}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3221 \newcommand*{\Glspl}[2][]{%
3222   \new@ifnextchar[{\Glspl@#1}{#2}}{\Glspl@#1}{#2}[] }%
3223 }
```

\@Glspl@ Read in the final optional argument:

```
3224 \def\@Glspl@#1#2[#3]{%
3225   \glsdoifexists{#2}%
3226   {%
3227     \let\do@gls@link@checkfirsthyper\@gls@link@checkfirsthyper
3228     \let\glsifplural\@firstoftwo
3229     \let\glscapscase\@secondofthree
3230     \let\glscustomtext\@empty
3231     \def\glsinsert{#3}%
3232     \def\@glo@text{\csname gls@\glstype @entryfmt\endcsname}%
3233     \gls@link[#1]{#2}{\@glo@text}%
3234     \ifKV@glslink@local
3235       \glslocalunset{#2}%
3236     \else
3237       \glsunset{#2}%
3238     \fi
3239   }%
3240 }
```

Determine what the link text should be (this is stored in \glo@text). This needs to be expanded so that the \glo@text can be passed to \xmakefirststuc.

Note that \gls@link sets \glstype.

```
3232     \def\@glo@text{\csname gls@\glstype @entryfmt\endcsname}%
```

Call \gls@link. If footnote package option has been used and the glossary type is \acronymtype, suppress hyperlink for first use. Likewise if the hyperfirst=false package option is used.

```
3233     \gls@link[#1]{#2}{\@glo@text}%
3234     \ifKV@glslink@local
3235       \glslocalunset{#2}%
3236     \else
3237       \glsunset{#2}%
3238     \fi
3239   }%
3240 }
```

\GLSpl behaves like \glspl except that all the link text is converted to uppercase.

\GLSpl

```
3241 \newrobustcmd*\{\GLSpl\}{\gls@hyp@opt\@GLSpl}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3242 \newcommand*\{@GLSpl}[2][]{%
3243   \new@ifnextchar[{\@GLSpl@#1}{#2}}{\@GLSpl@#1}{#2}[] }%
3244 }
```

\@GLSpl Read in the final optional argument:

```
3245 \def\@GLSpl@#1#2[#3]{%
3246   \glsdoifexists{#2}%
3247   {%
3248     \let\do@gls@link@checkfirsthyper\@gls@link@checkfirsthyper
```

```

3249     \let\glsifplural \@firstoftwo
3250     \let\glscapscase \@thirdofthree
3251     \let\glscustomtext \@empty
3252     \def\glsinsert{\#3}%

```

Determine what the link text should be (this is stored in `\@glo@text`) Note that `\@gls@link` sets `\glstype`.

```
3253     \def\@glo@text{\csname gls@\glstype @entryfmt\endcsname}%
```

Call `\@gls@link`. If footnote package option has been used and the glossary type is `\acronymtype`, suppress hyperlink for first use. Likewise if the `hyper-first=false` package option is used.

```
3254     \@gls@link[\#1]{\#2}{\@glo@text}%
```

Indicate that this entry has now been used

```

3255     \ifKV@glslink@local
3256         \glslocalunset{\#2}%
3257     \else
3258         \glsunset{\#2}%
3259     \fi
3260 }%
3261 }

```

`\glsdisp` `\glsdisp[<options>]{<label>}{<text>}` This is like `\gls` except that the link text is provided. This differs from `\glslink` in that it uses `\glsdisplay` or `\glsdisplayfirst` and unsets the first use flag.

First determine if we are using the starred form:

```
3262 \newrobustcmd*\glsdisp{\@gls@hyp@opt\glsdisp}
```

Defined the un-starred form.

`\@glsdisp`

```

3263 \newcommand*\glsdisp[3][]{%
3264     \glsdoifexists{\#2}{%
3265         \let\do@gls@link@checkfirsthyper\gls@link@checkfirsthyper
3266         \let\glsifplural \@secondoftwo
3267         \let\glscapscase \@firstofthree
3268         \def\glscustomtext{\#3}%
3269         \def\glsinsert{}%
}

```

Determine what the link text should be (this is stored in `\@glo@text`) Note that `\@gls@link` sets `\glstype`.

```
3270     \def\@glo@text{\csname gls@\glstype @entryfmt\endcsname}%
```

Call `\@gls@link`. If footnote package option has been used and the glossary type is `\acronymtype`, suppress hyperlink for first use. Likewise if the `hyper-first=false` package option is used.

```
3271     \@gls@link[\#1]{\#2}{\@glo@text}%
```

Indicate that this entry has now been used

```
3272     \ifKV@glslink@local
3273         \glslocalunset{#2}%
3274     \else
3275         \glsunset{#2}%
3276     \fi
3277 }%
3278 }

\@gls@field@link
3279 \newcommand{\@gls@field@link}[3]{%
3280   \glsdoifexists{#2}%
3281 {%
3282   \let\do@gls@link@checkfirsthyper\relax
3283   \@gls@link[#1]{#2}{#3}%
3284 }%
3285 }
```

\glstext behaves like \gls except it always uses the value given by the text key and it doesn't mark the entry as used.

```
\glstext
3286 \newrobustcmd*\{\glstext\}{\gls@hyp@opt\glstext}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3287 \newcommand*\{@glstext}[2][]{%
3288   \new@ifnextchar[{\@glstext@{#1}{#2}}{\@glstext@{#1}{#2}[]}}
```

Read in the final optional argument:

```
3289 \def\@glstext@#1#2[#3]{%
3290   \gls@field@link{#1}{#2}{\glsentrytext{#2}{#3}}%
3291 }
```

\GLStext behaves like \glstext except the text is converted to uppercase.

```
\GLStext
3292 \newrobustcmd*\{\GLStext\}{\gls@hyp@opt\GLStext}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3293 \newcommand*\{@GLStext}[2][]{%
3294   \new@ifnextchar[{\@GLStext@{#1}{#2}}{\@GLStext@{#1}{#2}[]}}
```

Read in the final optional argument:

```
3295 \def\@GLStext@#1#2[#3]{%
3296   \gls@field@link{#1}{#2}{\mfirstucMakeUppercase{\glsentrytext{#2}{#3}}%}
3297 }
```

\Glstext behaves like \glstext except that the first letter of the text is converted to uppercase.

```
\Gls{text
3298 \newrobustcmd*{\Gls{text}}{\@gls@hyp@opt\Gls{text}}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3299 \newcommand*{\@Gls{text}}[2][]{%
3300   \new@ifnextchar[{\@Gls{text}{#1}{#2}}{\@Gls{text}{#1}{#2}[]}}}
```

Read in the final optional argument:

```
3301 \def\@Gls{text}{#1}{#2}{%
3302   \@gls@field@link{#1}{#2}{\Glsentrytext{#2}{#3}}%
3303 }
```

\glsfirst behaves like \gls except it always uses the value given by the first key and it doesn't mark the entry as used.

```
\glsfirst
3304 \newrobustcmd*{\glsfirst}{\@gls@hyp@opt\glsfirst}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3305 \newcommand*{\@glsfirst}{[2][]{%
3306   \new@ifnextchar[{\@glsfirst}{#1}{#2}}{\@glsfirst}{#1}{#2}[]}}}
```

Read in the final optional argument:

```
3307 \def\@glsfirst{\#1}{#2}{%
3308   \@gls@field@link{#1}{#2}{\glsentryfirst{#2}{#3}}%
3309 }
```

\Glsfirst behaves like \glsfirst except it displays the first letter in uppercase.

```
\Glsfirst
3310 \newrobustcmd*{\Glsfirst}{\@gls@hyp@opt\Glsfirst}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3311 \newcommand*{\@Glsfirst}{[2][]{%
3312   \new@ifnextchar[{\@Glsfirst}{#1}{#2}}{\@Glsfirst}{#1}{#2}[]}}}
```

Read in the final optional argument:

```
3313 \def\@Glsfirst{\#1}{#2}{%
3314   \@gls@field@link{#1}{#2}{\Glsentryfirst{#2}{#3}}%
3315 }
```

\GLSfirst behaves like \Glsfirst except it displays the text in uppercase.

```
\GLSfirst
3316 \newrobustcmd*{\GLSfirst}{\@gls@hyp@opt\GLSfirst}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3317 \newcommand*{\@GLSfirst}[2] []{%
3318   \new@ifnextchar[{\@GLSfirst@{\#1}{\#2}}{\@GLSfirst@{\#1}{\#2}[]}}%
```

Read in the final optional argument:

```
3319 \def \@GLSfirst@#1#2[#3]{%
3320   \gls@field@link{\#1}{\#2}{\mfirstucMakeUppercase{\glsentryfirst{\#2}\#3}}%
3321 }
```

\glsplural behaves like \gls except it always uses the value given by the plural key and it doesn't mark the entry as used.

\glsplural

```
3322 \newrobustcmd*{\glsplural}{\gls@hyp@opt@glsplural}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3323 \newcommand*{\@glsplural}[2] []{%
3324   \new@ifnextchar[{\@glsplural@{\#1}{\#2}}{\@glsplural@{\#1}{\#2}[]}}%
```

Read in the final optional argument:

```
3325 \def \@glsplural@#1#2[#3]{%
3326   \gls@field@link{\#1}{\#2}{\glsentryplural{\#2}\#3}}%
3327 }
```

\Glsplural behaves like \glsplural except that the first letter is converted to uppercase.

\Glsplural

```
3328 \newrobustcmd*{\Glsplural}{\gls@hyp@opt@Glsplural}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3329 \newcommand*{\@Glsplural}[2] []{%
3330   \new@ifnextchar[{\@Glsplural@{\#1}{\#2}}{\@Glsplural@{\#1}{\#2}[]}}%
```

Read in the final optional argument:

```
3331 \def \@Glsplural@#1#2[#3]{%
3332   \gls@field@link{\#1}{\#2}{\Glsentryplural{\#2}\#3}}%
3333 }
```

\GLSplural behaves like \glsplural except that the text is converted to uppercase.

\GLSplural

```
3334 \newrobustcmd*{\GLSplural}{\gls@hyp@opt@GLSplural}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3335 \newcommand*{\@GLSplural}[2] []{%
3336   \new@ifnextchar[{\@GLSplural@{\#1}{\#2}}{\@GLSplural@{\#1}{\#2}[]}}%
```

Read in the final optional argument:

```
3337 \def\@GLSplural@#1#2[#3]{%
3338   \gls@field@link{#1}{#2}{\mfirstucMakeUppercase{\glsentryplural{#2}{#3}}}
3339 }
```

\glsfirstplural behaves like \gls except it always uses the value given by the firstplural key and it doesn't mark the entry as used.

\glsfirstplural

```
3340 \newrobustcmd*\{\glsfirstplural\}{\gls@hyp@opt\glsfirstplural}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3341 \newcommand*\{@glsfirstplural}[2][]{%
3342   \new@ifnextchar[{\@glsfirstplural@{#1}{#2}}{\@glsfirstplural@{#1}{#2}[]}}
```

Read in the final optional argument:

```
3343 \def\@glsfirstplural@#1#2[#3]{%
3344   \gls@field@link{#1}{#2}{\glsentryfirstplural{#2}{#3}}}
3345 }
```

\Glsfirstplural behaves like \glsfirstplural except that the first letter is converted to uppercase.

\Glsfirstplural

```
3346 \newrobustcmd*\{\Glsfirstplural\}{\gls@hyp@opt\Glsfirstplural}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3347 \newcommand*\{@Glsfirstplural}[2][]{%
3348   \new@ifnextchar[{\@Glsfirstplural@{#1}{#2}}{\@Glsfirstplural@{#1}{#2}[]}}
```

Read in the final optional argument:

```
3349 \def\@Glsfirstplural@#1#2[#3]{%
3350   \gls@field@link{#1}{#2}{\Glsentryfirstplural{#2}{#3}}}
3351 }
```

\GLSfirstplural behaves like \glsfirstplural except that the link text is converted to uppercase.

\GLSfirstplural

```
3352 \newrobustcmd*\{\GLSfirstplural\}{\gls@hyp@opt\GLSfirstplural}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3353 \newcommand*\{@GLSfirstplural}[2][]{%
3354   \new@ifnextchar[{\@GLSfirstplural@{#1}{#2}}{\@GLSfirstplural@{#1}{#2}[]}}
```

Read in the final optional argument:

```
3355 \def\@GLSfirstplural@#1#2[#3]{%
3356   \gls@field@link{#1}{#2}{\mfirstucMakeUppercase{\glsentryfirstplural{#2}{#3}}}}
3357 }
```

\glsname behaves like \gls except it always uses the value given by the name key and it doesn't mark the entry as used.

```
\glsname  
3358 \newrobustcmd*{\glsname}{\gls@hyp@opt\glsname}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3359 \newcommand*{\glsname}[2][]{%  
3360   \new@ifnextchar[{\glsname@{#1}{#2}}{\glsname@{#1}{#2}[]}}
```

Read in the final optional argument:

```
3361 \def\glsname@#1#2[#3]{%  
3362   \gls@field@link{#1}{#2}{\glsentryname{#2}#3}%  
3363 }
```

\Glsname behaves like \glsname except that the first letter is converted to uppercase.

```
\Glsname  
3364 \newrobustcmd*{\Glsname}{\gls@hyp@opt\Glsname}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3365 \newcommand*{\Glsname}[2][]{%  
3366   \new@ifnextchar[{\Glsname@{#1}{#2}}{\Glsname@{#1}{#2}[]}}
```

Read in the final optional argument:

```
3367 \def\Glsname@#1#2[#3]{%  
3368   \gls@field@link{#1}{#2}{\Glsentryname{#2}#3}%  
3369 }
```

\GLSname behaves like \glsname except that the link text is converted to uppercase.

```
\GLSname  
3370 \newrobustcmd*{\GLSname}{\gls@hyp@opt\GLSname}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3371 \newcommand*{\GLSname}[2][]{%  
3372   \new@ifnextchar[{\GLSname@{#1}{#2}}{\GLSname@{#1}{#2}[]}}
```

Read in the final optional argument:

```
3373 \def\GLSname@#1#2[#3]{%  
3374   \gls@field@link{#1}{#2}{\mfirstucMakeUppercase{\glsentryname{#2}#3}}%  
3375 }
```

\glsdesc behaves like \gls except it always uses the value given by the description key and it doesn't mark the entry as used.

```
\glsdesc  
3376 \newrobustcmd*{\glsdesc}{\gls@hyp@opt\glsdesc}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3377 \newcommand*{\@glsdesc}[2] [] {%
3378   \new@ifnextchar[{\@glsdesc@{\#1}{\#2}}{\@glsdesc@{\#1}{\#2}[]}}}
```

Read in the final optional argument:

```
3379 \def \@glsdesc@#1#2[#3] {%
3380   \gls@field@link{\#1}{\#2}{\glsentrydesc{\#2}{#3}}%
3381 }
```

\Glsdesc behaves like \glsdesc except that the first letter is converted to uppercase.

\Glsdesc

```
3382 \newrobustcmd*{\Glsdesc}{\gls@hyp@opt\@Glsdesc}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3383 \newcommand*{\@Glsdesc}[2] [] {%
3384   \new@ifnextchar[{\@Glsdesc@{\#1}{\#2}}{\@Glsdesc@{\#1}{\#2}[]}}}
```

Read in the final optional argument:

```
3385 \def \@Glsdesc@#1#2[#3] {%
3386   \gls@field@link{\#1}{\#2}{\Glsentrydesc{\#2}{#3}}%
3387 }
```

\GLSdesc behaves like \glsdesc except that the link text is converted to uppercase.

\GLSdesc

```
3388 \newrobustcmd*{\GLSdesc}{\gls@hyp@opt\@GLSdesc}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3389 \newcommand*{\@GLSdesc}[2] [] {%
3390   \new@ifnextchar[{\@GLSdesc@{\#1}{\#2}}{\@GLSdesc@{\#1}{\#2}[]}}}
```

Read in the final optional argument:

```
3391 \def \@GLSdesc@#1#2[#3] {%
3392   \gls@field@link{\#1}{\#2}{\mfirstucMakeUppercase{\glsentrydesc{\#2}{#3}}}%
```

\glsdescplural behaves like \gls except it always uses the value given by the descriptionplural key and it doesn't mark the entry as used.

\glsdescplural

```
3394 \newrobustcmd*{\glsdescplural}{\gls@hyp@opt\@glsdescplural}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3395 \newcommand*{\@glsdescplural}[2] [] {%
3396   \new@ifnextchar[{\@glsdescplural@{\#1}{\#2}}{\@glsdescplural@{\#1}{\#2}[]}}}
```

Read in the final optional argument:

```
3397 \def\@glsdescplural@#1#2[#3]{%
3398   \gls@field@link{#1}{#2}{\glsentrydescplural{#2}#3}%
3399 }
```

\Glsdescplural behaves like \glsdescplural except that the first letter is converted to uppercase.

\Glsdescplural

```
3400 \newrobustcmd*\{\Glsdescplural\}{\gls@hyp@opt\Glsdescplural}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3401 \newcommand*\{@Glsdescplural}[2][]{%
3402   \new@ifnextchar[{\@Glsdescplural@#1}{\@Glsdescplural@#1}[]]{\@Glsdescplural@#1}{\@Glsdescplural@#1}[]}}
```

Read in the final optional argument:

```
3403 \def\@Glsdescplural@#1#2[#3]{%
3404   \gls@field@link{#1}{#2}{\Glsentrydescplural{#2}#3}%
3405 }
```

\GLSdescplural behaves like \glsdescplural except that the link text is converted to uppercase.

\GLSdescplural

```
3406 \newrobustcmd*\{\GLSdescplural\}{\gls@hyp@opt\GLSdescplural}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3407 \newcommand*\{@GLSdescplural}[2][]{%
3408   \new@ifnextchar[{\@GLSdescplural@#1}{\@GLSdescplural@#1}[]]{\@GLSdescplural@#1}{\@GLSdescplural@#1}[]}}
```

Read in the final optional argument:

```
3409 \def\@GLSdescplural@#1#2[#3]{%
3410   \gls@field@link{#1}{#2}{\mfirstucMakeUppercase{\glsentrydescplural{#2}#3}}%
3411 }
```

\glssymbol behaves like \gls except it always uses the value given by the symbol key and it doesn't mark the entry as used.

\glssymbol

```
3412 \newrobustcmd*\{\glssymbol\}{\gls@hyp@opt\glssymbol}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3413 \newcommand*\{@glssymbol}[2][]{%
3414   \new@ifnextchar[{\@glssymbol@#1}{\@glssymbol@#1}[]]{\@glssymbol@#1}{\@glssymbol@#1}[]}}
```

Read in the final optional argument:

```
3415 \def\@glssymbol@#1#2[#3]{%
3416   \gls@field@link{#1}{#2}{\glsentrysymbol{#2}#3}%
3417 }
```

\Glssymbol behaves like \glssymbol except that the first letter is converted to uppercase.

\Glssymbol

```
3418 \newrobustcmd*\{\Glssymbol\}{\gls@hyp@opt\Glssymbol}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3419 \newcommand*\{@Glssymbol}[2][]{%
```

```
3420   \new@ifnextchar[{\@Glssymbol@{\#1}{\#2}}{\@Glssymbol@{\#1}{\#2}[]}]
```

Read in the final optional argument:

```
3421 \def\@Glssymbol@#1#2[#3]{%
```

```
3422   \gls@field@link{\#1}{\#2}{\Glsentrysymbol{\#2}{#3}}%
```

```
3423 }
```

\GLSsymbol behaves like \glssymbol except that the link text is converted to uppercase.

\GLSsymbol

```
3424 \newrobustcmd*\{\GLSsymbol\}{\gls@hyp@opt\GLSsymbol}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3425 \newcommand*\{@GLSsymbol}[2][]{%
```

```
3426   \new@ifnextchar[{\@GLSsymbol@{\#1}{\#2}}{\@GLSsymbol@{\#1}{\#2}[]}]
```

Read in the final optional argument:

```
3427 \def\@GLSsymbol@#1#2[#3]{%
```

```
3428   \gls@field@link{\#1}{\#2}{\mfirstucMakeUppercase{\glsentrysymbol{\#2}{#3}}}%
```

```
3429 }
```

\glssymbolplural behaves like \gls except it always uses the value given by the symbolplural key and it doesn't mark the entry as used.

\glssymbolplural

```
3430 \newrobustcmd*\{\glssymbolplural\}{\gls@hyp@opt\glssymbolplural}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3431 \newcommand*\{@glssymbolplural}[2][]{%
```

```
3432   \new@ifnextchar[{\@glssymbolplural@{\#1}{\#2}}{\@glssymbolplural@{\#1}{\#2}[]}]
```

Read in the final optional argument:

```
3433 \def\@glssymbolplural@#1#2[#3]{%
```

```
3434   \gls@field@link{\#1}{\#2}{\glsentrysymbol{\#2}{#3}}%
```

```
3435 }
```

\Glssymbolplural behaves like \glssymbolplural except that the first letter is converted to uppercase.

\Glssymbolplural

```
3436 \newrobustcmd*\{\Glssymbolplural\}{\gls@hyp@opt\Glssymbolplural}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3437 \newcommand*{\@Glssymbolplural}[2] [] {%
3438   \new@ifnextchar[{\@Glssymbolplural@{\#1}{\#2}}{\@Glssymbolplural@{\#1}{\#2}[]}}%
```

Read in the final optional argument:

```
3439 \def \@Glssymbolplural@#1#2[#3] {%
3440   \gls@field@link{\#1}{\#2}{\glsentrysymbolplural{\#2}{#3}}%
3441 }
```

\GLSsymbolplural behaves like \glssymbolplural except that the link text is converted to uppercase.

\GLSsymbolplural

```
3442 \newrobustcmd*{\GLSsymbolplural}{\gls@hyp@opt\GLSsymbolplural}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3443 \newcommand*{\@GLSsymbolplural}[2] [] {%
3444   \new@ifnextchar[{\@GLSsymbolplural@{\#1}{\#2}}{\@GLSsymbolplural@{\#1}{\#2}[]}}%
```

Read in the final optional argument:

```
3445 \def \@GLSsymbolplural@#1#2[#3] {%
3446   \gls@field@link{\#1}{\#2}{\mfirstucMakeUppercase{\glsentrysymbolplural{\#2}{#3}}}}%
3447 }
```

\glsuseri behaves like \gls except it always uses the value given by the user1 key and it doesn't mark the entry as used.

\glsuseri

```
3448 \newrobustcmd*{\glsuseri}{\gls@hyp@opt@glsuseri}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3449 \newcommand*{\@glsuseri}[2] [] {%
3450   \new@ifnextchar[{\@glsuseri@{\#1}{\#2}}{\@glsuseri@{\#1}{\#2}[]}}%
```

Read in the final optional argument:

```
3451 \def \@glsuseri@#1#2[#3] {%
3452   \gls@field@link{\#1}{\#2}{\glsentryuseri{\#2}{#3}}%
3453 }
```

\Glsuseri behaves like \glsuseri except that the first letter is converted to uppercase.

\Glsuseri

```
3454 \newrobustcmd*{\Glsuseri}{\gls@hyp@opt@Glsuseri}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3455 \newcommand*{\@Glsuseri}[2] [] {%
3456   \new@ifnextchar[{\@Glsuseri@{\#1}{\#2}}{\@Glsuseri@{\#1}{\#2}[]}}%
```

Read in the final optional argument:

```
3457 \def\@Glsuseri@#1#2[#3]{%
3458   \gls@field@link{#1}{#2}{\Glsentryuseri{#2}#3}%
3459 }
```

\GLSuseri behaves like \glsuseri except that the link text is converted to uppercase.

\GLSuseri

```
3460 \newrobustcmd*\{\GLSuseri\}{\gls@hyp@opt\@GLSuseri}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3461 \newcommand*\{@GLSuseri}[2][]{%
3462   \new@ifnextchar[{\@GLSuseri@#1}{\@GLSuseri@#1}{#2}[]}{}
```

Read in the final optional argument:

```
3463 \def\@GLSuseri@#1#2[#3]{%
3464   \gls@field@link{#1}{#2}{\mfirstucMakeUppercase{\glsentryuseri{#2}#3}}%
3465 }
```

\glsuserii behaves like \gls except it always uses the value given by the user2 key and it doesn't mark the entry as used.

\glsuserii

```
3466 \newrobustcmd*\{\glsuserii\}{\gls@hyp@opt\@glsuserii}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3467 \newcommand*\{@glsuserii}[2][]{%
3468   \new@ifnextchar[{\@glsuserii@#1}{\@glsuserii@#1}{#2}[]}{}
```

Read in the final optional argument:

```
3469 \def\@glsuserii@#1#2[#3]{%
3470   \gls@field@link{#1}{#2}{\glsentryuserii{#2}#3}%
3471 }
```

\Glsuserii behaves like \glsuserii except that the first letter is converted to uppercase.

\Glsuserii

```
3472 \newrobustcmd*\{\Glsuserii\}{\gls@hyp@opt\@Glsuserii}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3473 \newcommand*\{@Glsuserii}[2][]{%
3474   \new@ifnextchar[{\@Glsuserii@#1}{\@Glsuserii@#1}{#2}[]}{}
```

Read in the final optional argument:

```
3475 \def\@Glsuserii@#1#2[#3]{%
3476   \gls@field@link{#1}{#2}{\Glsentryuserii{#2}#3}%
3477 }
```

\GLSuserii behaves like \glsuserii except that the link text is converted to uppercase.

```
\GLSuserii  
3478 \newrobustcmd*\{\GLSuserii\}{\gls@hyp@opt\GLSuserii}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3479 \newcommand*{\GLSuserii}[2][]{%  
3480   \new@ifnextchar[{\GLSuserii@{#1}{#2}}{\GLSuserii@{#1}{#2}[]}}
```

Read in the final optional argument:

```
3481 \def\GLSuserii@#1#2[#3]{%  
3482   \gls@field@link{#1}{#2}{\mfirstucMakeUppercase{\glsentryuserii{#2}#3}}%  
3483 }
```

\glsuseriii behaves like \gls except it always uses the value given by the user3 key and it doesn't mark the entry as used.

```
\glsuseriii  
3484 \newrobustcmd*\{\glsuseriii\}{\gls@hyp@opt\glsuseriii}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3485 \newcommand*{\glsuseriii}[2][]{%  
3486   \new@ifnextchar[{\glsuseriii@{#1}{#2}}{\glsuseriii@{#1}{#2}[]}}
```

Read in the final optional argument:

```
3487 \def\glsuseriii@#1#2[#3]{%  
3488   \gls@field@link{#1}{#2}{\glsentryuseriii{#2}#3}}%  
3489 }
```

\Glsuseriii behaves like \glsuseriii except that the first letter is converted to uppercase.

```
\Glsuseriii  
3490 \newrobustcmd*\{\Glsuseriii\}{\gls@hyp@opt\Glsuseriii}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3491 \newcommand*{\Glsuseriii}[2][]{%  
3492   \new@ifnextchar[{\Glsuseriii@{#1}{#2}}{\Glsuseriii@{#1}{#2}[]}}
```

Read in the final optional argument:

```
3493 \def\Glsuseriii@#1#2[#3]{%  
3494   \gls@field@link{#1}{#2}{\Glsentryuseriii{#2}#3}}%  
3495 }
```

\GLSuseriii behaves like \glsuseriii except that the link text is converted to uppercase.

```
\GLSuseriii  
3496 \newrobustcmd*\{\GLSuseriii\}{\gls@hyp@opt\GLSuseriii}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3497 \newcommand*{\@GLSuseriii}[2] [] {%
3498   \new@ifnextchar[{\@GLSuseriii@{\#1}{\#2}}{\@GLSuseriii@{\#1}{\#2}[]}}%
```

Read in the final optional argument:

```
3499 \def \@GLSuseriii@#1#2[#3]{%
3500   \gls@field@link{\#1}{\#2}{\mfirstucMakeUppercase{\glsentryuseriii{\#2}{#3}}}}
3501 }
```

\glsuseriv behaves like \gls except it always uses the value given by the user4 key and it doesn't mark the entry as used.

\glsuseriv

```
3502 \newrobustcmd*{\glsuseriv}{\gls@hyp@opt\glsuseriv}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3503 \newcommand*{\@glsuseriv}[2] [] {%
3504   \new@ifnextchar[{\@glsuseriv@{\#1}{\#2}}{\@glsuseriv@{\#1}{\#2}[]}}%
```

Read in the final optional argument:

```
3505 \def \@glsuseriv@#1#2[#3]{%
3506   \gls@field@link{\#1}{\#2}{\glsentryuseriv{\#2}{#3}}}
3507 }
```

\Glsuseriv behaves like \glsuseriv except that the first letter is converted to uppercase.

\Glsuseriv

```
3508 \newrobustcmd*{\Glsuseriv}{\gls@hyp@opt\Glsuseriv}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3509 \newcommand*{\@Glsuseriv}[2] [] {%
3510   \new@ifnextchar[{\@Glsuseriv@{\#1}{\#2}}{\@Glsuseriv@{\#1}{\#2}[]}}%
```

Read in the final optional argument:

```
3511 \def \@Glsuseriv@#1#2[#3]{%
3512   \gls@field@link{\#1}{\#2}{\Glsentryuseriv{\#2}{#3}}}
3513 }
```

\GLSuseriv behaves like \glsuseriv except that the link text is converted to uppercase.

\GLSuseriv

```
3514 \newrobustcmd*{\GLSuseriv}{\gls@hyp@opt\GLSuseriv}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3515 \newcommand*{\@GLSuseriv}[2] [] {%
3516   \new@ifnextchar[{\@GLSuseriv@{\#1}{\#2}}{\@GLSuseriv@{\#1}{\#2}[]}}%
```

Read in the final optional argument:

```
3517 \def\@GLSuseriv@#1#2[#3]{%
3518   \gls@field@link{#1}{#2}{\mfirstucMakeUppercase{\glsentryuseriv{#2}#3}}%
3519 }
```

\glsuserv behaves like \gls except it always uses the value given by the user5 key and it doesn't mark the entry as used.

\glsuserv

```
3520 \newrobustcmd*\glsuserv{\gls@hyp@opt\glsuserv}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3521 \newcommand*\glsuserv[2][]{%
3522   \new@ifnextchar[\glsuserv@#1]{\glsuserv@#1[]}{}}
```

Read in the final optional argument:

```
3523 \def\@glsuserv@#1#2[#3]{%
3524   \gls@field@link{#1}{#2}{\glsentryuserv{#2}#3}}%
3525 }
```

\Glsuserv behaves like \glsuserv except that the first letter is converted to uppercase.

\Glsuserv

```
3526 \newrobustcmd*\Glsuserv{\gls@hyp@opt\Glsuserv}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3527 \newcommand*\Glsuserv[2][]{%
3528 \new@ifnextchar[\Glsuserv@#1]{\Glsuserv@#1[]}{}}
```

Read in the final optional argument:

```
3529 \def\@Glsuserv@#1#2[#3]{%
3530   \gls@field@link{#1}{#2}{\Glsentryuserv{#2}#3}}%
3531 }
```

\GLSuserv behaves like \glsuserv except that the link text is converted to uppercase.

\GLSuserv

```
3532 \newrobustcmd*\GLSuserv{\gls@hyp@opt\GLSuserv}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3533 \newcommand*\GLSuserv[2][]{%
3534 \new@ifnextchar[\GLSuserv@#1]{\GLSuserv@#1[]}{}}
```

Read in the final optional argument:

```
3535 \def\@GLSuserv@#1#2[#3]{%
3536   \gls@field@link{#1}{#2}{\mfirstucMakeUppercase{\glsentryuserv{#2}#3}}%}
3537 }
```

\glsuservi behaves like \gls except it always uses the value given by the user6 key and it doesn't mark the entry as used.

```
\glsuservi
3538 \newrobustcmd*{\glsuservi}{\gls@hyp@opt@glsuservi}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3539 \newcommand*{\glsuservi}[2][]{%
3540   \new@ifnextchar[{\glsuservi@{#1}{#2}}{\glsuservi@{#1}{#2}[]}}
```

Read in the final optional argument:

```
3541 \def\glsuservi@#1#2[#3]{%
3542   \gls@field@link{#1}{#2}{\glsentryuservi{#2}#3}%
3543 }
```

\Glsuservi behaves like \glsuservi except that the first letter is converted to uppercase.

```
\Glsuservi
3544 \newrobustcmd*{\Glsuservi}{\gls@hyp@opt@Glsuservi}
```

Defined the un-starred form. Need to determine if there is a final optional argument

```
3545 \newcommand*{\Glsuservi}[2][]{%
3546   \new@ifnextchar[{\Glsuservi@{#1}{#2}}{\Glsuservi@{#1}{#2}[]}}
```

Read in the final optional argument:

```
3547 \def\Glsuservi@#1#2[#3]{%
3548   \gls@field@link{#1}{#2}{\Glsentryuservi{#2}#3}%
3549 }
```

\GLSuservi behaves like \glsuservi except that the link text is converted to uppercase.

```
\GLSuservi
3550 \newrobustcmd*{\GLSuservi}{\gls@hyp@opt@GLSuservi}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3551 \newcommand*{\GLSuservi}[2][]{%
3552   \new@ifnextchar[{\GLSuservi@{#1}{#2}}{\GLSuservi@{#1}{#2}[]}}
```

Read in the final optional argument:

```
3553 \def\GLSuservi@#1#2[#3]{%
3554   \gls@field@link{#1}{#2}{\mfirstucMakeUppercase{\glsentryuservi{#2}#3}}%
3555 }
```

Now deal with acronym related keys. First the short form:

```
\acrshort
3556 \newrobustcmd*{\acrshort}{\gls@hyp@opt@ns@acrshort}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3557 \newcommand*{\ns@acrshort}[2] []{%
3558   \new@ifnextchar[{\@\acrshort[#1]{#2}}{\@acrshort[#1]{#2}[] }%
3559 }
```

Read in the final optional argument:

```
3560 \def\@acrshort#1#2[#3]{%
3561   \glsdoifexists{#2}%
3562   {%
3563     \let\do@gls@link@checkfirsthyper\relax
3564     \let\glsifplural\@secondoftwo
3565     \let\glscapscase\@firstofthree
3566     \let\glsinsert\@empty
3567     \def\glscustomtext{%
3568       \acronymfont{\glsentryshort[#2]}#3%
3569     }%
```

Call \gls@link Note that \gls@link sets \glstype.

```
3570   \gls@link[#1]{#2}{\csname gls@\glstype @entryfmt\endcsname}%
3571 }%
3572 }
```

\Acrshort

```
3573 \newrobustcmd*{\Acrshort}{\gls@hyp@opt\ns@Acrshort}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3574 \newcommand*{\ns@Acrshort}[2] []{%
3575   \new@ifnextchar[{\@\Acrshort[#1]{#2}}{\@Acrshort[#1]{#2}[] }%
3576 }
```

Read in the final optional argument:

```
3577 \def\@Acrshort#1#2[#3]{%
3578   \glsdoifexists{#2}%
3579   {%
3580     \let\do@gls@link@checkfirsthyper\relax
3581     \def\glslabel{#2}%
3582     \let\glsifplural\@secondoftwo
3583     \let\glscapscase\@secondofthree
3584     \let\glsinsert\@empty
3585     \def\glscustomtext{%
3586       \acronymfont{\Glsentryshort[#2]}#3%
3587     }%
```

Call \gls@link Note that \gls@link sets \glstype.

```
3588   \gls@link[#1]{#2}{\csname gls@\glstype @entryfmt\endcsname}%
3589 }%
3590 }
```

\ACRshort

```
3591 \newrobustcmd*{\ACRshort}{\gls@hyp@opt\ns@ACRshort}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3592 \newcommand*{\ns@ACRshort}[2][]{%
3593   \new@ifnextchar[{\@\ACRshort{#1}{#2}}{\@\ACRshort{#1}{#2}[]}%
3594 }
```

Read in the final optional argument:

```
3595 \def\@ACRshort#1#2[#3]{%
3596   \glsdoifexists{#2}%
3597   {%
3598     \let\do@gls@link@checkfirsthyper\relax
3599     \def\glslabel{#2}%
3600     \let\glsifplural@\secondoftwo
3601     \let\glscapscase@\thirdofthree
3602     \let\glsinsert@\empty
3603     \def\glscustomtext{%
3604       \mfirstucMakeUppercase{\acronymfont{\glsentryshort{#2}}#3}%
3605     }%
3606   }%
```

Call \gls@link Note that \gls@link sets \glstype.

```
3606   \gls@link[#1]{#2}{\csname gls@\glstype @entryfmt\endcsname}%
3607 }%
3608 }
```

Short plural:

\acrshortpl

```
3609 \newrobustcmd*{\acrshortpl}{\gls@hyp@opt\ns@acrshortpl}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3610 \newcommand*{\ns@acrshortpl}[2][]{%
3611   \new@ifnextchar[{\@\acrshortpl{#1}{#2}}{\@\acrshortpl{#1}{#2}[]}%
3612 }
```

Read in the final optional argument:

```
3613 \def\@acrshortpl#1#2[#3]{%
3614   \glsdoifexists{#2}%
3615   {%
3616     \let\do@gls@link@checkfirsthyper\relax
3617     \def\glslabel{#2}%
3618     \let\glsifplural@\firstoftwo
3619     \let\glscapscase@\firstofthree
3620     \let\glsinsert@\empty
3621     \def\glscustomtext{%
3622       \acronymfont{\glsentryshortpl{#2}}#3}%
3623     }%
```

```
Call \@gls@link Note that \@gls@link sets \glstype.  
3624     \@gls@link[#1]{#2}{\csname gls@\glstype @entryfmt\endcsname} %  
3625 }%  
3626 }
```

```
\Acrshortpl  
3627 \newrobustcmd*\{\Acrshortpl\}{\gls@hyp@opt\ns@Acrshortpl}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3628 \newcommand*\{\ns@Acrshortpl\}[2] [] { %  
3629   \new@ifnextchar[{\@Acrshortpl{#1}{#2}}{\@Acrshortpl{#1}{#2}[]}%  
3630 }
```

Read in the final optional argument:

```
3631 \def\@Acrshortpl#1#2[#3]{ %  
3632   \glsdoifexists{#2}{ %  
3633     \let\do@gls@link@checkfirsthyper\relax  
3634     \def\glslabel{#2}{ %  
3635       \let\glsifplural@\firstoftwo  
3636       \let\glscapscase@\secondofthree  
3637       \let\glsinsert@\empty  
3638       \def\glscustomtext{ %  
3639         \acronymfont{\Glsentryshortpl{#2}}#3 %  
3640       } %  
3641     } %
```

Call \@gls@link Note that \@gls@link sets \glstype.

```
3642     \@gls@link[#1]{#2}{\csname gls@\glstype @entryfmt\endcsname} %  
3643   }%  
3644 }
```

```
\ACRshortpl  
3645 \newrobustcmd*\{\ACRshortpl\}{\gls@hyp@opt\ns@ACRshortpl}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3646 \newcommand*\{\ns@ACRshortpl\}[2] [] { %  
3647   \new@ifnextchar[{\@ACRshortpl{#1}{#2}}{\@ACRshortpl{#1}{#2}[]}%  
3648 }
```

Read in the final optional argument:

```
3649 \def\@ACRshortpl#1#2[#3]{ %  
3650   \glsdoifexists{#2}{ %  
3651     \let\do@gls@link@checkfirsthyper\relax
```

```

3653 \def\glslabel{#2}%
3654 \let\glsifplural@\firstoftwo
3655 \let\glscapscase@\thirdofthree
3656 \let\glsinsert@\empty
3657 \def\glscustomtext{%
3658   \mfirstucMakeUppercase{\acronymfont{\glsentryshortpl{#2}}#3}%
3659 }%

```

Call \gls@link Note that \gls@link sets \glstype.

```

3660   \gls@link[#1]{#2}{\csname gls@\glstype \entryfmt\endcsname}%
3661 }%
3662 }

```

\acrlong

```
3663 \newrobustcmd*\acrlong{\gls@hyp@opt\ns@acrlong}
```

Define the un-starred form. Need to determine if there is a final optional argument

```

3664 \newcommand*\ns@acrlong[2][]{%
3665   \new@ifnextchar{`}{\ns@acrlong{#1}{#2}}{\ns@acrlong{#1}{#2}[]}%
3666 }

```

Read in the final optional argument:

```

3667 \def\acrlong#1#2[#3]{%
3668   \glsdoifexists{#2}%
3669   {%
3670     \let\do@gls@link@checkfirsthyper\relax
3671     \def\glslabel{#2}%
3672     \let\glsifplural@\secondoftwo
3673     \let\glscapscase@\firstofthree
3674     \let\glsinsert@\empty

```

Bug fix v4.02 removed \acronymfont from \glscustomtext (\acronymfont only designed for short form).

```

3675   \def\glscustomtext{%
3676     \glsentrylong{#2}#3}%
3677   }%

```

Call \gls@link Note that \gls@link sets \glstype.

```

3678   \gls@link[#1]{#2}{\csname gls@\glstype \entryfmt\endcsname}%
3679 }%
3680 }

```

\Acrlong

```
3681 \newrobustcmd*\Acrlong{\gls@hyp@opt\ns@Acrlong}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3682 \newcommand*\ns@Acrlong[2][]{%
```

```
3683 \new@ifnextchar[{\@Acrlong{#1}{#2}}{\@Acrlong{#1}{#2}[]}]%
3684 }
```

Read in the final optional argument:

```
3685 \def\@Acrlong#1#2[#3]{%
3686   \glsdoifexists{#2}%
3687   {%
3688     \let\do@gls@link@checkfirsthyper\relax
3689     \def\glslabel{#2}%
3690     \let\glsifplural\@secondoftwo
3691     \let\glscapscase\@secondofthree
3692     \let\glsinsert\@empty
```

Bug fix v4.02 removed \acronymfont from \glscustomtext (\acronymfont only designed for short form).

```
3693 \def\glscustomtext{%
3694   \Glsentrylong{#2}#3%
3695 }
```

Call \gls@link. Note that \gls@link sets \glstype.

```
3696 \gls@link[#1]{#2}{\csname gls@\glstype \entryfmt\endcsname}%
3697 }%
3698 }
```

\ACRlong

```
3699 \newrobustcmd*\ACRlong{\gls@hyp@opt\ns@ACRlong}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3700 \newcommand*\ns@ACRlong[2][]{%
3701   \new@ifnextchar[{\@ACRlong{#1}{#2}}{\@ACRlong{#1}{#2}[]}]%
3702 }
```

Read in the final optional argument:

```
3703 \def\@ACRlong#1#2[#3]{%
3704   \glsdoifexists{#2}%
3705   {%
3706     \let\do@gls@link@checkfirsthyper\relax
3707     \def\glslabel{#2}%
3708     \let\glsifplural\@secondoftwo
3709     \let\glscapscase\@thirdofthree
3710     \let\glsinsert\@empty
```

Bug fix v4.02 removed \acronymfont from \glscustomtext (\acronymfont only designed for short form).

```
3711 \def\glscustomtext{%
3712   \mfirstucMakeUppercase{\Glsentrylong{#2}#3}%
3713 }
```

Call \gls@link. Note that \gls@link sets \glstype.

```
3714     \gls@link[#1]{#2}{\csname gls@\glstype @entryfmt\endcsname}%
3715   }%
3716 }
```

Short plural:

```
\acrlongpl
```

```
3717 \newrobustcmd*\acrlongpl{\gls@hyp@opt\ns@acrlongpl}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3718 \newcommand*\ns@acrlongpl[2][]{%
3719   \new@ifnextchar{@\acrlongpl[#1]{#2}}{\acrlongpl[#1]{#2}[]}%
3720 }
```

Read in the final optional argument:

```
3721 \def\acrlongpl#1#2[#3]{%
3722   \glsdoifexists{#2}%
3723   {%
3724     \let\do@gls@link@checkfirsthyper\relax
3725     \def\glslabel{#2}%
3726     \let\glsifplural@\firstoftwo
3727     \let\glscaps@\firstofthree
3728     \let\glsinsert@\empty
```

Bug fix v4.02 removed \acronymfont from \glscustomtext (\acronymfont only designed for short form).

```
3729   \def\glscustomtext{%
3730     \glsentrylongpl{#2}#3%
3731   }%
```

Call \gls@link. Note that \gls@link sets \glstype.

```
3732   \gls@link[#1]{#2}{\csname gls@\glstype @entryfmt\endcsname}%
3733 }%
3734 }
```

```
\Acrlongpl
```

```
3735 \newrobustcmd*\Acrlongpl{\gls@hyp@opt\ns@Acrlongpl}
```

Define the un-starred form. Need to determine if there is a final optional argument

```
3736 \newcommand*\ns@Acrlongpl[2][]{%
3737   \new@ifnextchar{@\Acrlongpl[#1]{#2}}{\Acrlongpl[#1]{#2}[]}%
3738 }
```

Read in the final optional argument:

```
3739 \def\Acrlongpl#1#2[#3]{%
3740   \glsdoifexists{#2}%
3741   {%
3742     \let\do@gls@link@checkfirsthyper\relax
```

```

3743 \def\glslabel{#2}%
3744 \let\glsifplural@\firstoftwo
3745 \let\glscapscase@\secondofthree
3746 \let\glsinsert@\empty

```

Bug fix v4.02 removed \acronymfont from \glscustomtext (\acronymfont only designed for short form).

```

3747 \def\glscustomtext{%
3748   \Glsentrylongpl{#2}#3%
3749 }%

```

Call \@gls@link. Note that \@gls@link sets \glstype.

```

3750   \@gls@link[#1]{#2}{\csname gls@\@glo@type \entryfmt\endcsname}%
3751 }%
3752 }

```

\ACRlongpl

```
3753 \newrobustcmd*\ACRlongpl{\@gls@hyp@opt\ns@ACRlongpl}
```

Define the un-starred form. Need to determine if there is a final optional argument

```

3754 \newcommand*\ns@ACRlongpl[2][]{%
3755   \new@ifnextchar[\{@ACRlongpl{#1}{#2}\}{\@ACRlongpl{#1}{#2}[] }%
3756 }

```

Read in the final optional argument:

```

3757 \def\@ACRlongpl#1#2[#3]{%
3758   \glsdoifexists{#2}%
3759   {%
3760     \let\do@gls@link@checkfirsthyper\relax
3761     \def\glslabel{#2}%
3762     \let\glsifplural@\firstoftwo
3763     \let\glscapscase@\thirdofthree
3764     \let\glsinsert@\empty

```

Bug fix v4.02 removed \acronymfont from \glscustomtext (\acronymfont only designed for short form).

```

3765 \def\glscustomtext{%
3766   \mfirstucMakeUppercase{\Glsentrylongpl{#2}#3}%
3767 }%

```

Call \@gls@link. Note that \@gls@link sets \glstype.

```

3768   \@gls@link[#1]{#2}{\csname gls@\glstype \entryfmt\endcsname}%
3769 }%
3770 }

```

1.10.2 Displaying entry details without adding information to the glossary

These commands merely display entry information without adding entries in the associated file or having hyperlinks.

\@gls@entry@field Generic version.

```
\@gls@entry@field{\<label>}{\<field>}
```

```
3771 \newcommand*{\@gls@entry@field}[2]{%
3772   \csname glo@\glsdetoklabel{#1}@#2\endcsname
3773 }
```

\glsletentryfield \glsletentryfield{\<cs>}{\<label>}{\<field>}

```
3774 \newcommand*{\glsletentryfield}[3]{%
3775   \letcs{#1}{glo@\glsdetoklabel{#2}@#3}%
3776 }
```

\@Gls@entry@field Generic first letter uppercase version.

```
\@Gls@entry@field{\<label>}{\<field>}
```

```
3777 \newcommand*{\@Gls@entry@field}[2]{%
3778   \letcs@glo@text{glo@\glsdetoklabel{#1}@#2}%
3779   \ifdef@glo@text
3780   {%
3781     \xmakefirstuc{\@glo@text}%
3782   }%
3783   {%
3784     \PackageError{glossaries}{Either glossary entry
3785       '\glsdetoklabel{#1}' doesn't exist or the field '#2'
3786       doesn't exist}{Check you have correctly spelt the entry
3787       label and the field name}%
3788   }%
3789 }
```

Get the entry name (as specified by the name key when the entry was defined). The argument is the label associated with the entry. Note that unless you used name=false in the sanitize package option you may get unexpected results if the name key contains any commands.

\glsentryname

```
3790 \newcommand*{\glsentryname}[1]{\@gls@entry@field{#1}{name}}
```

```

\Glsentryname
3791 \newrobustcmd*{\Glsentryname}[1]{%
3792   \Gls@entryname{#1}%
3793 }

```

\Gls@entryname This is a workaround in the event that the user defies the warning in the manual about not using \Glsname or \Glsentryname with acronyms. First the default behaviour:

```

3794 \newcommand*{\Gls@entryname}[1]{%
3795   \Gls@entry@field{#1}{name}%
3796 }

```

\Gls@acronymname Now the behaviour when \setacronymstyle is used:

```

3797 \newcommand*{\Gls@acronymname}[1]{%
3798   \ifglshaslong{#1}%
3799   {%
3800     \letcs{\glo@text}{\glsdetoklabel{#1}{name}}%
3801     \expandafter{\gls@getbody{\glo@text{}}}\nil
3802     \expandafter{\ifx{\gls@body}{\glsentrylong}\relax
3803       \expandafter{\Glsentrylong@\gls@rest
3804     \else
3805       \expandafter{\ifx{\gls@body}{\glsentryshort}\relax
3806         \expandafter{\Glsentryshort@\gls@rest
3807       \else
3808         \expandafter{\ifx{\gls@body}{\acronymfont}\relax

```

Temporarily make \glsentryshort behave like \Glsentryshort. (This is on the assumption that the argument of \acronymfont is \glsentryshort{\label}, as that's the behaviour of the predefined acronym styles.) This is scoped to localise the effect of the assignment.

```

3809   {%
3810     \let{\glsentryshort}{\Glsentryshort
3811     \glo@text
3812   }%
3813   \else
3814     \xmakefirstuc{\glo@text}%
3815   \fi
3816   \fi
3817   \fi
3818 }%
3819 {%

```

Not an acronym

```

3820   \Gls@entry@field{#1}{name}%
3821 }%
3822 }

```

Get the entry description (as specified by the description when the entry was defined). The argument is the label associated with the entry. Note that un-

less you used `description=false` in the `sanitize` package option you may get unexpected results if the `description` key contained any commands.

```
\glsentrydesc
3823 \newcommand*{\glsentrydesc}[1]{\@gls@entry@field{#1}{desc}}
\Glsentrydesc
3824 \newrobustcmd*{\Glsentrydesc}[1]{%
3825   \@Gls@entry@field{#1}{desc}%
3826 }
```

Plural form:

```
\glsentrydescplural
3827 \newcommand*{\glsentrydescplural}[1]{%
3828   \@gls@entry@field{#1}{descplural}%
3829 }
\Glsentrydescplural
3830 \newrobustcmd*{\Glsentrydescplural}[1]{%
3831   \@Gls@entry@field{#1}{descplural}%
3832 }
```

Get the entry text, as specified by the `text` key when the entry was defined.
The argument is the label associated with the entry:

```
\glsentrytext
3833 \newcommand*{\glsentrytext}[1]{\@gls@entry@field{#1}{text}}
\Glsentrytext
3834 \newrobustcmd*{\Glsentrytext}[1]{%
3835   \@Gls@entry@field{#1}{text}%
3836 }
```

Get the plural form:

```
\glsentryplural
3837 \newcommand*{\glsentryplural}[1]{%
3838   \@gls@entry@field{#1}{plural}%
3839 }
\Glsentryplural
3840 \newrobustcmd*{\Glsentryplural}[1]{%
3841   \@Gls@entry@field{#1}{plural}%
3842 }
```

Get the symbol associated with this entry. The argument is the label associated with the entry.

```
\glsentrysymbol
3843 \newcommand*{\glsentrysymbol}[1]{%
3844   \gls@entry@field{#1}{symbol}%
3845 }
```

```
\Glsentrysymbol
3846 \newrobustcmd*{\Glsentrysymbol}[1]{%
3847   \gls@entry@field{#1}{symbol}%
3848 }
```

Plural form:

```
\lsentrysymbolplural
3849 \newcommand*{\lsentrysymbolplural}[1]{%
3850   \gls@entry@field{#1}{symbolplural}%
3851 }
```

```
\lsentrysymbolplural
3852 \newrobustcmd*{\Glsentrysymbolplural}[1]{%
3853   \gls@entry@field{#1}{symbolplural}%
3854 }
```

Get the entry text to be used when the entry is first used in the document (as specified by the `first` key when the entry was defined).

```
\glsentryfirst
3855 \newcommand*{\glsentryfirst}[1]{%
3856   \gls@entry@field{#1}{first}%
3857 }
```

```
\Glsentryfirst
3858 \newrobustcmd*{\Glsentryfirst}[1]{%
3859   \gls@entry@field{#1}{first}%
3860 }
```

Get the plural form (as specified by the `firstplural` key when the entry was defined).

```
\glsentryfirstplural
3861 \newcommand*{\glsentryfirstplural}[1]{%
3862   \gls@entry@field{#1}{firstpl}%
3863 }
```

```
\Glsentryfirstplural
3864 \newrobustcmd*{\Glsentryfirstplural}[1]{%
3865   \gls@entry@field{#1}{firstpl}%
3866 }
```

Display the glossary type with which this entry is associated (as specified by the type key used when the entry was defined)

\glsentrytype

```
3867 \newcommand*{\glsentrytype}[1]{\@gls@entry@field{#1}{type}}
```

Display the sort text used for this entry. Note that the sort key is sanitized, so unexpected results may occur if the sort key contained commands.

\glsentrysort

```
3868 \newcommand*{\glsentrysort}[1]{%
3869   \@gls@entry@field{#1}{sort}%
3870 }
```

\glsentryuseri Get the first user key (as specified by the user1 when the entry was defined).

The argument is the label associated with the entry.

```
3871 \newcommand*{\glsentryuseri}[1]{%
3872   \@gls@entry@field{#1}{useri}%
3873 }
```

\Glsentryuseri

```
3874 \newrobustcmd*{\Glsentryuseri}[1]{%
3875   \@Gls@entry@field{#1}{useri}%
3876 }
```

\glsentryuserii Get the second user key (as specified by the user2 when the entry was defined).

The argument is the label associated with the entry.

```
3877 \newcommand*{\glsentryuserii}[1]{%
3878   \@gls@entry@field{#1}{userii}%
3879 }
```

\Glsentryuserii

```
3880 \newrobustcmd*{\Glsentryuserii}[1]{%
3881   \@Gls@entry@field{#1}{userii}%
3882 }
```

\glsentryuseriii Get the third user key (as specified by the user3 when the entry was defined).

The argument is the label associated with the entry.

```
3883 \newcommand*{\glsentryuseriii}[1]{%
3884   \@gls@entry@field{#1}{useriii}%
3885 }
```

\Glsentryuseriii

```
3886 \newrobustcmd*{\Glsentryuseriii}[1]{%
3887   \@Gls@entry@field{#1}{useriii}%
3888 }
```

```

\glsentryuseriv  Get the fourth user key (as specified by the user4 when the entry was defined).
                  The argument is the label associated with the entry.
3889 \newcommand*{\glsentryuseriv}[1]{%
3890   \gls@entry@field{#1}{useriv}%
3891 }

\Glsentryuseriv
3892 \newrobustcmd*{\Glsentryuseriv}[1]{%
3893   \gls@entry@field{#1}{useriv}%
3894 }

\glsentryuserv  Get the fifth user key (as specified by the user5 when the entry was defined).
                  The argument is the label associated with the entry.
3895 \newcommand*{\glsentryuserv}[1]{%
3896   \gls@entry@field{#1}{userv}%
3897 }

\Glsentryuserv
3898 \newrobustcmd*{\Glsentryuserv}[1]{%
3899   \gls@entry@field{#1}{userv}%
3900 }

\glsentryuservi Get the sixth user key (as specified by the user6 when the entry was defined).
                  The argument is the label associated with the entry.
3901 \newcommand*{\glsentryuservi}[1]{%
3902   \gls@entry@field{#1}{uservi}%
3903 }

\Glsentryuservi
3904 \newrobustcmd*{\Glsentryuservi}[1]{%
3905   \gls@entry@field{#1}{uservi}%
3906 }

\glsentryshort  Get the short key (as specified by the short the entry was defined). The argu-
                  ment is the label associated with the entry.
3907 \newcommand*{\glsentryshort}[1]{\gls@entry@field{#1}{short} }

\Glsentryshort
3908 \newrobustcmd*{\Glsentryshort}[1]{%
3909   \gls@entry@field{#1}{short}%
3910 }

\glsentryshortpl Get the short plural key (as specified by the shortplural the entry was defined).
                  The argument is the label associated with the entry.
3911 \newcommand*{\glsentryshortpl}[1]{\gls@entry@field{#1}{shortpl} }

```

```

\Glsentryshortpl
3912 \newrobustcmd*{\Glsentryshortpl}[1]{%
3913   \Gls@entry@field{#1}{shortpl}%
3914 }

\glsentrylong Get the long key (as specified by the long the entry was defined). The argument
is the label associated with the entry.
3915 \newcommand*{\glsentrylong}[1]{\Gls@entry@field{#1}{long}}


\Glsentrylong
3916 \newrobustcmd*{\Glsentrylong}[1]{%
3917   \Gls@entry@field{#1}{long}%
3918 }

\glsentrylongpl Get the long plural key (as specified by the longplural the entry was defined).
The argument is the label associated with the entry.
3919 \newcommand*{\glsentrylongpl}[1]{\Gls@entry@field{#1}{longpl}}


\Glsentrylongpl
3920 \newrobustcmd*{\Glsentrylongpl}[1]{%
3921   \Gls@entry@field{#1}{longpl}%
3922 }

Short cut macros to access full form:

\glsentryfull
3923 \newcommand*{\glsentryfull}[1]{%
3924   \acrfullformat{\glsentrylong{#1}}{\acronymfont{\glsentryshort{#1}}}%
3925 }

\Glsentryfull
3926 \newrobustcmd*{\Glsentryfull}[1]{%
3927   \acrfullformat{\glsentrylong{#1}}{\acronymfont{\glsentryshort{#1}}}%
3928 }

\glsentryfullpl
3929 \newcommand*{\glsentryfullpl}[1]{%
3930   \acrfullformat{\glsentrylongpl{#1}}{\acronymfont{\glsentryshortpl{#1}}}%
3931 }

\Glsentryfullpl
3932 \newrobustcmd*{\Glsentryfullpl}[1]{%
3933   \acrfullformat{\glsentrylongpl{#1}}{\acronymfont{\glsentryshortpl{#1}}}%
3934 }

```

\glsentrynumberlist Displays the number list as is.

```
3935 \newcommand*{\glsentrynumberlist}[1]{%
3936   \glsdoifexists{#1}%
3937   {%
3938     \gls@entry@field{#1}{numberlist}%
3939   }%
3940 }
```

\lsdisplaynumberlist Formats the number list for the given entry label. Doesn't work with hyperref.

```
3941 \@ifpackageloaded{hyperref} {%
3942   \newcommand*{\lsdisplaynumberlist}[1]{%
3943     \GlossariesWarning
3944     {%
3945       \string\lsdisplaynumberlist\space
3946       doesn't work with hyperref.^^JUsing
3947       \string\glsentrynumberlist\space instead%
3948     }%
3949     \glsentrynumberlist{#1}%
3950   }%
3951 }%
3952 {%
3953   \newcommand*{\lsdisplaynumberlist}[1]{%
3954     \glsdoifexists{#1}%
3955     {%
3956       \bgroup
3957         \edef\@glo@label{\glsdetoklabel{#1}}%
3958         \let\@org@glsnumberformat\glsnumberformat
3959         \def\glsnumberformat##1{##1}%
3960         \protected@edef\the@numberlist{%
3961           \csname glo@\@glo@label @numberlist\endcsname}%
3962         \def\@gls@numlist@sep{}%
3963         \def\@gls@numlist@nextsep{}%
3964         \def\@gls@numlist@lastsep{}%
3965         \def\@gls@thislist{}%
3966         \def\@gls@donext@def{}%
3967         \renewcommand\do[1]{%
3968           \protected@edef\@gls@thislist{%
3969             \@gls@thislist
3970             \noexpand\@gls@numlist@sep
3971             ##1%
3972           }%
3973           \let\@gls@numlist@sep\@gls@numlist@nextsep
3974           \def\@gls@numlist@nextsep{\glsnumlistsep}%
3975           \gls@donext@def
3976           \def\@gls@donext@def{%
3977             \def\@gls@numlist@lastsep{\glsnumlistlastsep}%
3978           }%
3979         }%
3980     }%
```

```

3980      \expandafter \glsnumlistparser \expandafter{\the@numberlist}%
3981      \let\@gls@numlist@sep\@gls@numlist@lastsep
3982      \@gls@thislist
3983      \egroup
3984  }%
3985 }
3986 }

\glsnumlistsep
3987 \newcommand*\glsnumlistsep}{, }


```

```

\glsnumlistlastsep
3988 \newcommand*\glsnumlistlastsep}{ \& }


```

\glshyperlink Provide a hyperlink to a glossary entry without adding information to the glossary file. The entry needs to be added using a command like `\glslink` or `\glsadd` to ensure that the target is defined. The first (optional) argument specifies the link text. The entry name is used by default. The second argument is the entry label.

```

3989 \newcommand*\glshyperlink}[2][\glsentrytext{@glo@label}]{%
3990 \def@glo@label{#2}%
3991 \glslink{\glolinkprefix\glsdetoklabel{#2}}{#1}


```

1.11 Adding an entry to the glossary without generating text

The following keys are provided for `\glsadd` and `\glsaddall`:

```

3992 \define@key{glossadd}{counter}{\def@gls@counter{#1}}
3993 \define@key{glossadd}{format}{\def@glsnumberformat{#1}}

```

This key is only used by `\glsaddall`:

```

3994 \define@key{glossadd}{types}{\def@glo@type{#1}}

```

`\glsadd[options]{label}`

Add a term to the glossary without generating any link text. The optional argument indicates which counter to use, and how to format it (using a key-value list) the second argument is the entry label. Note that *options* only has two keys: counter and format (the types key will be ignored).

```

\glsadd
3995 \newrobustcmd*\glsadd}[2][]{}%
3996 \glsdoifexists{#2}%
3997 {}%
3998 \def@glsnumberformat{glsnumberformat}%
3999 \edef@gls@counter{\csname glo@\glsdetoklabel{#2}@counter\endcsname}%
4000 \setkeys{glossadd}{#1}%

```

Store the entry's counter in \the\glsentrycounter

```
4001     \@gls@saveentrycounter
4002     \@do@wrgglossary{#2}%
4003 }%
4004 }
```

\glsaddall[*<option list>*]

Add all terms defined for the listed glossaries (without displaying any text). If types key is omitted, apply to all glossary types.

\glsaddall

```
4005 \newrobustcmd*\glsaddall}[1] []{%
4006   \edef\@glo@type{\@glo@types}%
4007   \setkeys{glossadd}{#1}%
4008   \forallglsentries[\@glo@type]{\@glo@entry}{%
4009     \glsadd[#1]{\@glo@entry}%
4010   }%
4011 }
```

\glsaddallunused

\glsaddallunused[*<glossary type>*]

Add all used terms defined for the listed glossaries (without displaying any text). If optional argument is omitted, apply to all glossary types. This should typically go at the end of the document.

```
4012 \newrobustcmd*\glsaddallunused}[1][\@glo@types]{%
4013   \forallglsentries[#1]{\@glo@entry}%
4014   {%
4015     \ifglsused{\@glo@entry}{}{\glsadd[format=@gobble]{\@glo@entry}}%
4016   }%
4017 }
```

1.12 Creating associated files

The \writeist command creates the associated customized .ist makeindex style file. While defining this command, some characters have their catcodes temporarily changed to ensure they get written to the .ist file correctly. The makeindex actual character (usually @) is redefined to be a ?, to allow internal commands to be written to the glossary file output file.

The special characters are stored in \@gls@actualchar, \@gls@encapchar, \@gls@levelchar and \@gls@quotechar to make them easier to use later, but don't change these values, because the characters are encoded in the command definitions that are used to escape the special characters (which means that the user no longer needs to worry about makeindex special characters).

The symbols and numbers label for group headings are hardwired into the .ist file as `glssymbols` and `glsnumbers`, the group titles can be translated (so that `\glssymbols{groupname}` replaces `glssymbols` and `\glsnumbers{groupname}` replaces `glsnumbers`) using the command `\glsgetgroupname` which is defined in . This is done to prevent any problem characters in `\glssymbols{groupname}` and `\glsnumbers{groupname}` from breaking hyperlinks.

`\glsopenbrace` Define `\glsopenbrace` to make it easier to write an opening brace to a file.

```
4018 \edef\glsopenbrace{\expandafter\@gobble\string\{}
```

`\glsclosebrace` Define `\glsclosebrace` to make it easier to write an opening brace to a file.

```
4019 \edef\glsclosebrace{\expandafter\@gobble\string\}}
```

`\glsbackslash` Define `\glsbackslash` to make it easier to write a backslash to a file.

```
4020 \edef\glsbackslash{\expandafter\@gobble\string\\}
```

`\glsquote` Define command that makes it easier to write quote marks to a file in the event that the double quote character has been made active.

```
4021 \edef\glsquote#1{\string"##1\string"}
```

`\glspercentchar` Define `\glspercentchar` to make it easier to write a percent character to a file.

```
4022 \edef\glspercentchar{\expandafter\@gobble\string\%}
```

`\glstildechar` Define `\glstildechar` to make it easier to write a tilde character to a file.

```
4023 \edef\glstildechar{\string~}
```

`\@glsfirstletter` Define the first letter to come after the digits 0,...,9. Only required for xindy.

```
4024 \ifglsxindy
```

```
4025   \newcommand*{\@glsfirstletter}{A}
```

```
4026 \fi
```

`\stLetterAfterDigits` Sets the first letter to come after the digits 0,...,9.

```
4027 \ifglsxindy
```

```
4028   \newcommand*{\GlsSetXdyFirstLetterAfterDigits}[1]{%
```

```
4029     \renewcommand*{\@glsfirstletter}{#1}}
```

```
4030 \else
```

```
4031   \newcommand*{\GlsSetXdyFirstLetterAfterDigits}[1]{%
```

```
4032     \glsnoxindywarning{\GlsSetXdyFirstLetterAfterDigits}
```

```
4033 \fi
```

`\@glsminrange` Define the minimum number of successive location references to merge into a range.

```
4034 \newcommand*{\@glsminrange}{2}
```

`\setXdyMinRangeLength` Set the minimum range length. The value must either be none or a positive integer. The `glossaries` package doesn't check if the argument is valid, that is left to `xindy`.

```

4035 \ifglsxindy
4036   \newcommand*{\GlsSetXdyMinRangeLength}[1]{%
4037     \renewcommand*{\@glsminrange}{#1}}
4038 \else
4039   \newcommand*{\GlsSetXdyMinRangeLength}[1]{%
4040     \glsnoxindywarning\GlsSetXdyMinRangeLength}
4041 \fi

```

`\writeist`

```

4042 \ifglsxindy
  Code to use if xindy is required.
4043 \def\writeist{%
  Define write register if not already defined
4044   \ifundefined{\glswrite}{\newwrite\glswrite}{}%
  Update attributes list
4045   \gls@addpredefinedattributes
  Open the file.
4046   \openout\glswrite=\istfilename
  Write header comment at the start of the file
4047   \write\glswrite{;; xindy style file created by the glossaries
4048     package}%
4049   \write\glswrite{;; for document '\jobname' on
4050     \the\year-\the\month-\the\day}%
  Specify the required styles
4051   \write\glswrite{^^J; required styles^^J}
4052   \for@\xdystyle:=\xdyrequiredstyles\do{%
4053     \ifx@\xdystyle\empty
4054     \else
4055       \protected@write\glswrite{}{(require
4056         \string"\xdystyle.xdy\string")}%
4057     \fi
4058   }%
  List the allowed attributes (possible values used by the format key)
4059   \write\glswrite{^^J%
4060     ; list of allowed attributes (number formats)^^J}%
4061   \write\glswrite{(define-attributes ((\xdyattributes)))}%
  Define any additional alphabets
4062   \write\glswrite{^^J; user defined alphabets^^J}%
4063   \write\glswrite{\xdyuseralphabets}%
  Define location classes.
4064   \write\glswrite{^^J; location class definitions^^J}%

```

As from version 3.0, locations are now specified as `{<Hprefix>}{<number>}`, so need to add all possible combinations of location types.

```
4065     \@for\@gls@classI:=\@gls@xdy@locationlist\do{%
```

Case were `<Hprefix>` is empty:

```
4066     \protected@write\glswrite{}{(define-location-class
4067         \string"\@gls@classI\string"^^J\space\space\space
4068         (
4069             :sep "{}"
4070             \csname @gls@xdy@Lclass@\@gls@classI\endcsname\space
4071             :sep "}"
4072         )
4073         ^^J\space\space\space
4074         :min-range-length \@glsminrange^^J%
4075     )
4076 }%
```

Nested iteration over all classes:

```
4077     {%
4078         \@for\@gls@classII:=\@gls@xdy@locationlist\do{%
4079             \protected@write\glswrite{}{(define-location-class
4080                 \string"\@gls@classII-\@gls@classI\string"
4081                 ^^J\space\space\space
4082                 (
4083                     :sep "{}"
4084                     \csname @gls@xdy@Lclass@\@gls@classII\endcsname\space
4085                     :sep "}"
4086                     \csname @gls@xdy@Lclass@\@gls@classI\endcsname\space
4087                     :sep "}"
4088                 )
4089                 ^^J\space\space\space
4090                 :min-range-length \@glsminrange^^J%
4091             )
4092         }%
4093     }%
4094 }%
4095 }%
```

User defined location classes (needs checking for new location format).

```
4096     \write\glswrite{^^J; user defined location classes}%
4097     \write\glswrite{\@xdyuserlocationdefs}%
```

Cross-reference class. (The unverified option is used as the cross-references are supplied using the list of labels along with the optional argument for `\glsseeformat` which xindy won't recognise.)

```
4098     \write\glswrite{^^J; define cross-reference class^^J}%
4099     \write\glswrite{(define-crossref-class \string"see\string"
4100         :unverified )}%
```

Define how cross-references should be displayed. This adds an empty set of braces after the cross-referencing information allowing for the final argument

of \glsseeformat which gets ignored. (When using makeindex this final argument contains the location information which is not required.)

```
4101  \write\glswrite{ (markup-crossref-list
4102    :class \string"see\string"^^J\space\space\space
4103    :open \string"\string\glsseeformat\string"
4104    :close \string"{} \string")}%
```

List the order to sort the classes.

```
4105  \write\glswrite{^^J; define the order of the location classes}%
4106  \write\glswrite{ (define-location-class-order
4107    (@xdylocationclassorder))}%
```

Specify what to write to the start and end of the glossary file.

```
4108  \write\glswrite{^^J; define the glossary markup^^J}%
4109  \write\glswrite{ (markup-index^^J\space\space\space\space
4110    :open \string"\string
4111    \glossarysection[\string\glossarytoctitle]{\string
4112    \glossarytitle}\string\glossarypreamble} %
```

Add all the xindy-only macro definitions (needed to prevent errors in the event that the user changes from xindy to makeindex)

```
4113  \@for\@this@ctr:=\xdycounters\do{%
4114    {%
4115      \@for\@this@attr:=\xdyattributelist\do{%
4116        \protected@write\glswrite{}{\string\providecommand*%
4117          \expandafter\string
4118          \csname glsX@\this@ctr X@\this@attr\endcsname[2]%
4119        {%
4120          \string\setentrycounter
4121            [\expandafter\@gobble\string\#1]{\@this@ctr}%
4122            \expandafter\string
4123            \csname\@this@attr\endcsname
4124              \expandafter\@gobble\string\#2}%
4125        }%
4126      }%
4127    }%
4128  }%
4129 }%
```

Add the end part of the open tag and the rest of the markup-index information:

```
4130  \write\glswrite{%
4131    \string\begin
4132    {theGLOSSARY}\string\glossaryheader\glstildechar n\string" ^^J\space
4133    \space\space:close \string"\glspercentchar\glstildechar n\string"
4134    \end{theGLOSSARY}\string\glossarypostamble
4135    \glstildechar n\string" ^^J\space\space\space
4136    :tree)}%
```

Specify what to put between letter groups

```
4137  \write\glswrite{ (markup-letter-group-list
4138    :sep \string"\string\glsgroupskip\glstildechar n\string")}%
```

Specify what to put between entries

```
4139      \write\glswrite{(markup-indexentry
4140          :open \string"\string\relax \string\glsresetentrylist
4141          \glstildechar n\string")}%
```

Specify how to format entries

```
4142      \write\glswrite{(markup-locclass-list :open
4143          \string"\glsopenbrace\string\glossaryentrynumbers
4144          \glsopenbrace\string\relax\space \string"^^J\space\space\space
4145          :sep \string", \string"
4146          :close \string"\glsclosebrace\glsclosebrace\string")}%
```

Specify how to separate location numbers

```
4147      \write\glswrite{(markup-locref-list
4148          :sep \string"\string\delimN\space\string")}%
```

Specify how to indicate location ranges

```
4149      \write\glswrite{(markup-range
4150          :sep \string"\string\delimR\space\string")}%
```

Specify 2-page and 3-page suffixes, if defined. First, the values must be sanitized to write them explicitly.

```
4151      \@onellevel@sanitize\gls@suffixF
4152      \@onellevel@sanitize\gls@suffixFF
4153      \ifx\gls@suffixF\@empty
4154      \else
4155          \write\glswrite{(markup-range
4156              :close "\gls@suffixF" :length 1 :ignore-end)}%
4157      \fi
4158      \ifx\gls@suffixFF\@empty
4159      \else
4160          \write\glswrite{(markup-range
4161              :close "\gls@suffixFF" :length 2 :ignore-end)}%
4162      \fi
```

Specify how to format locations.

```
4163      \write\glswrite{^^J; define format to use for locations^^J}%
4164      \write\glswrite{\@xdylocref}%
```

Specify how to separate letter groups.

```
4165      \write\glswrite{^^J; define letter group list format^^J}%
4166      \write\glswrite{(markup-letter-group-list
4167          :sep \string"\string\glsgroupskip\glstildechar n\string")}%
```

Define letter group headings.

```
4168      \write\glswrite{^^J; letter group headings^^J}%
4169      \write\glswrite{(markup-letter-group
4170          :open-head \string"\string\glsgroupheading
4171          \glsopenbrace\string"^^J\space\space\space
4172          :close-head \string"\glsclosebrace\string")}%
```

Define additional letter groups.

```
4173 \write\glswrite{^^J; additional letter groups^^J}%
4174 \write\glswrite{@xdylettergroups}%
```

Define additional sort rules

```
4175 \write\glswrite{^^J; additional sort rules^^J}%
4176 \write\glswrite{@xdysortrules}%
```

Close the style file

```
4177 \closeout\glswrite
```

Suppress any further calls.

```
4178 \let\writeist\relax
4179 }
4180 \else
```

Code to use if `makeindex` is required.

```
4181 \edef@\gls@actualchar{\string?}
4182 \edef@\gls@encapchar{\string!}
4183 \edef@\gls@levelchar{\string!}
4184 \edef@\gls@quotechar{\string"}
4185 \def\writeist{\relax
4186 \ifundef{\glswrite}{\newwrite\glswrite}{}\relax
4187 \openout\glswrite=!\istfilename
4188 \write\glswrite{\glspercentchar\space makeindex style file
4189   created by the glossaries package}
4190 \write\glswrite{\glspercentchar\space for document
4191   '\jobname' on \the\year-\the\month-\the\day}
4192 \write\glswrite{actual '@gls@actualchar'}
4193 \write\glswrite{encap '@gls@encapchar'}
4194 \write\glswrite{level '@gls@levelchar'}
4195 \write\glswrite{quote '@gls@quotechar'}
4196 \write\glswrite{keyword \string"\string\"glossaryentry\string"}
4197 \write\glswrite{preamble \string"\string\"glossarysection[\string
4198   \glossarytoctitle]{\string\"glossarytitle}\string"
4199   \glossarypreamble\string\n\string\"begin{theglossary}\string"
4200   \glossaryheader\string\n\string"}
4201 \write\glswrite{postamble \string"\string\"% \string\n\string"
4202   \end{theglossary}\string\"glossarypostamble\string\n
4203   \string"}
4204 \write\glswrite{group_skip \string"\string\"glsgroupskip\string\n
4205   \string"}
4206 \write\glswrite{item_0 \string"\string\"% \string\n\string"}
4207 \write\glswrite{item_1 \string"\string\"% \string\n\string"}
4208 \write\glswrite{item_2 \string"\string\"% \string\n\string"}
4209 \write\glswrite{item_01 \string"\string\"% \string\n\string"}
4210 \write\glswrite{item_x1
4211   \string"\string\"relax \string\"glsresetentrylist\string\n
4212   \string"}
4213 \write\glswrite{item_12 \string"\string\"% \string\n\string"}
4214 \write\glswrite{item_x2
```

```

4215      \string"\string\"\relax \string\"\\glsresetentrylist\string\n
4216      \string"
4217      \write\glswrite{delim_0 \string"\string"\{\string"
4218          \\\glossaryentrynumbers\string\{\string\"\\relax \string"\}
4219      \write\glswrite{delim_1 \string"\string"\{\string"
4220          \\\glossaryentrynumbers\string\{\string\"\\relax \string"\}
4221      \write\glswrite{delim_2 \string"\string"\{\string"
4222          \\\glossaryentrynumbers\string\{\string\"\\relax \string"\}
4223      \write\glswrite{delim_t \string"\string"\{\string"}\string"\}\string"\}
4224      \write\glswrite{delim_n \string"\string"\{\string"}\string"\delimN \string"\}
4225      \write\glswrite{delim_r \string"\string"\{\string"}\string"\delimR \string"\}
4226      \write\glswrite{headings_flag 1}
4227      \write\glswrite{heading_prefix
4228          \string"\string"\{\string"}\glsgroupheading\string"\{\string"}
4229      \write\glswrite{heading_suffix
4230          \string"\string"\{\string"}\string"\relax
4231          \string"\string"\glsresetentrylist \string"\}
4232      \write\glswrite{symhead_positive \string"\string"\glossysymbols\string"\}
4233      \write\glswrite{numhead_positive \string"\string"\glossynumbers\string"\}
4234      \write\glswrite{page_compositor \string"\string"\glosscompositor\string"\}
4235      \@gls@escbsdq\gls@suffixF
4236      \@gls@escbsdq\gls@suffixFF
4237      \ifx\gls@suffixF\@empty
4238      \else
4239          \write\glswrite{suffix_2p \string"\string"\gls@suffixF\string"\}
4240      \fi
4241      \ifx\gls@suffixFF\@empty
4242      \else
4243          \write\glswrite{suffix_3p \string"\string"\gls@suffixFF\string"\}
4244      \fi
4245      \closeout\glswrite
4246      \let\writeist\relax
4247  }
4248 \fi

```

The command `\noist` will suppress the creation of the `.ist` file. Obviously you need to use this command before `\writeist` to have any effect.

```

\noist
4249 \newcommand{\noist}{%
    Update attributes list
4250     \@gls@addpredefinedattributes
4251     \let\writeist\relax
4252 }

```

`\@makeglossary` is an internal command that takes an argument indicating the glossary type. This command will create the glossary file required by `makeindex` for the given glossary type, using the extension supplied by

the *<out-ext>* parameter used in \newglossary (and it will also activate the \glossary command, and create the customized .ist makeindex style file).

Note that you can't use \makeglossary for only some of the defined glossaries. You either need to have a \makeglossary for all glossaries or none (otherwise you will end up with a situation where TeX is trying to write to a non-existent file). The relevant glossary must be defined prior to using \makeglossary.

\@makeglossary

```
4253 \newcommand*{\@makeglossary}[1]{%
4254   \ifglossaryexists{#1}%
4255   {%
```

Only create a new write if savewrites=false otherwise create a token to collect the information.

```
4256   \ifglossavewrites
4257     \expandafter\newtoks\csname glo@#1@filetok\endcsname
4258   \else
4259     \expandafter\newwrite\csname glo@#1@file\endcsname
4260     \expandafter\@glsopenfile\csname glo@#1@file\endcsname{#1}%
4261   \fi
4262   \@gls@renewglossary
4263   \writeisit
4264 }%
4265 {%
4266   \PackageError{glossaries}%
4267   {Glossary type ‘#1’ not defined}%
4268   {New glossaries must be defined before using \string\makeglossary}%
4269 }%
4270 }
```

\@glsopenfile Open write file associated with the given glossary.

```
4271 \newcommand*{\@glsopenfile}[2]{%
4272   \immediate\openout#1=\jobname.\csname @glotype@#2@out\endcsname
4273   \PackageInfo{glossaries}{Writing glossary file
4274     \jobname.\csname @glotype@#2@out\endcsname}%
4275 }
```

\@closegls

```
4276 \newcommand*{\@closegls}[1]{%
4277   \closeout\csname glo@#1@file\endcsname
4278 }
4279 %   \end{macrocode}
4280 %\end{macro}
4281 %
4282 %\begin{macro}{\@gls@automake}
4283 %\changes{4.08}{2014-07-30}{new}
4284 %   \begin{macrocode}
4285 \ifglsxindy
```

```

4286 \newcommand*{\@gls@automake}[1]{%
4287   \ifglossaryexists{#1}
4288   {%
4289     \closegls{#1}%
4290     \ifdefstring{\glsorder}{letter}%
4291       {\def\@gls@order{-M ord/letorder }}%
4292       {\let\@gls@order\empty}%
4293     \ifcsundef{@xdy@#1@language}%
4294       {\let\@gls@langmod\@xdy@main@language}%
4295       {\let\@gls@langmod{\@xdy@#1@language}}%
4296     \edef\@gls@dothiswrite{\noexpand\write18{xindy
4297       -I xindy
4298       \gls@order
4299       -L \@gls@langmod\space
4300       -M \gls@istfilebase\space
4301       -C \gls@codepage\space
4302       -t \jobname.\csuse{@glotype@#1@log}%
4303       -o \jobname.\csuse{@glotype@#1@in}%
4304       \jobname.\csuse{@glotype@#1@out}}}%
4305   }%
4306   \@gls@dothiswrite
4307 }%
4308 {%
4309   \GlossariesWarning{Can't make glossary '#1', it doesn't exist}%
4310 }%
4311 }
4312 \else
4313 \newcommand*{\@gls@automake}[1]{%
4314   \ifglossaryexists{#1}
4315   {%
4316     \closegls{#1}%
4317     \ifdefstring{\glsorder}{letter}%
4318       {\def\@gls@order{-l }}%
4319       {\let\@gls@order\empty}%
4320     \edef\@gls@dothiswrite{\noexpand\write18{makeindex \gls@order
4321       -s \istfilename\space
4322       -t \jobname.\csuse{@glotype@#1@log}%
4323       -o \jobname.\csuse{@glotype@#1@in}%
4324       \jobname.\csuse{@glotype@#1@out}}}%
4325   }%
4326   \@gls@dothiswrite
4327 }%
4328 {%
4329   \GlossariesWarning{Can't make glossary '#1', it doesn't exist}%
4330 }%
4331 }
4332 \fi

```

rn@nomakeglossaries Issue warning that \makeglossaries hasn't been used.

```
4333 \newcommand*{\@warn@nomakeglossaries}{}  
Only use this if warning if \printglossary has been used without \makeglossaries  
4334 \newcommand*{\warn@nomakeglossaries}{\@warn@nomakeglossaries}
```

\makeglossaries will use \@makeglossary for each glossary type that has been defined. New glossaries need to be defined before using \makeglossary, so have \makeglossaries redefine \newglossary to prevent it being used afterwards.

\makeglossaries

```
4335 \newcommand*{\makeglossaries}{}%
```

Define the write used for style file also used for all other output files if savewrites=true.

```
4336 \ifundef{\glswrite}{\newwrite\glswrite}{}%
```

If the user removes the glossary package from their document, ensure the next run doesn't throw a load of undefined control sequence errors when the aux file is parsed.

```
4337 \protected@write\auxout{}{\string\providecommand\string@glsorder[1]{}}  
4338 \protected@write\auxout{}{\string\providecommand\string@istfilename[1]{}}
```

Write the name of the style file to the aux file (needed by makeglossaries)

```
4339 \protected@write\auxout{}{\string\@istfilename{\istfilename}}%  
4340 \protected@write\auxout{}{\string\@glsorder{\glsorder}}
```

Iterate through each glossary type and activate it.

```
4341 \for@\glo@type:=\glo@types\do{  
4342   \ifthenelse{\equal{\glo@type}{} }{}{}%  
4343   \makeglossary{\glo@type}{}%  
4344 }%
```

New glossaries must be created before \makeglossaries so disable \newglossary.

```
4345 \renewcommand*\newglossary[4] [] {}%  
4346 \PackageError{glossaries}{New glossaries  
4347 must be created before \string\makeglossaries}{You need  
4348 to move \string\makeglossaries\space after all your  
4349 \string\newglossary\space commands}}%
```

Any subsequence instances of this command should have no effect

```
4350 \let\makeglossary\relax  
4351 \let\makeglossary\relax  
4352 \let\makeglossaries\relax
```

Disable all commands that have no effect after \makeglossaries

```
4353 \disabled@onlypremakeg
```

Allow see key:

```
4354 \let\gls@checkseeallowed\relax
```

SUPPRESS warning about no \makeglossaries

```
4355 \let\warn@nomakeglossaries\relax
```

Activate warning about missing \printglossary

```
4356 \def\warn@noprintglossary{%
4357   \GlossariesWarningNoLine{No \string\printglossary\space
4358   or \string\printglossaries\space
4359   found.^^J(Remove \string\makeglossaries\space if you don't want
4360   any glossaries.)^^JThis document will not have a glossary}%
4361 }%
```

Declare list parser for \glsdisplaynumberlist

```
4362 \ifglssavenuumberlist
4363   \edef\@gls@dodeflistparser{\noexpand\DeclareListParser
4364     {\noexpand\glsnumlistparser}{\delimN}}%
4365   \@gls@dodeflistparser
4366 \fi
```

Prevent user from also using \makenoidxglossaries

```
4367 \let\makenoidxglossaries\@no@makeglossaries
```

Prohibit sort key in printgloss family:

```
4368 \renewcommand*\@printgloss@setsort}{%
4369   \let\@glo@assign@sortkey\@glo@no@assign@sortkey
4370 }%
```

Check the automake setting:

```
4371 \ifglsautomake
4372   \renewcommand*\@gls@doautomake}{%
4373   \@for\@gls@type:=\@glo@types\do{%
4374     \ifdefempty{\@gls@type}{}
4375     {\@gls@automake{\@gls@type}}%
4376   }%
4377 }%
4378 \fi
4379 }
```

Must occur in the preamble:

```
4380 \onlypreamble{\makeglossaries}
```

\glswrite The definition of \glswrite has now been moved to \makeglossaries so that it's only defined if needed.

The \makeglossary command is redefined to be identical to \makeglossaries. (This is done to reinforce the message that you must either use \makeglossary for all the glossaries or for none of them.)

\makeglossary

```
4381 \let\makeglossary\makeglossaries
```

If \makeglossaries hasn't been used, issue a warning. Also issue a warning if neither \printglossaries nor \printglossary have been used.

```
4382 \AtEndDocument{%
4383   \warn@nomakeglossaries
```

```

4384 \warn@noprintglossary
4385 }

makenoidxglossaries Analogous to \makeglossaries this activates the commands needed for \printnoidxglossary
4386 \newcommand*{\makenoidxglossaries}{%
    Redefine empty glossary warning:
4387 \renewcommand{\@gls@noref@warn}[1]{%
4388     \GlossariesWarning{Empty glossary for
4389     \string\printnoidxglossary[type={##1}]. .
4390     Rerun may be required (or you may have forgotten to use
4391     commands like \string\gls).}%
4392 }%

    Don't escape makeindex/xindy characters
4393 \let\@gls@checkmkidxchars\@gobble

    Write glossary information to aux instead of glossary files
4394 \let\@do@wrglossary\gls@noidxglossary

    Switch on group headings that use the character code:
4395 \let\@gls@getgrouptitle\@gls@noidx@getgroupitle

    Allow see key:
4396 \let\gls@checkseeallowed\relax

    Redefine cross-referencing macro:
4397 \renewcommand{\@do@seeglossary}[2]{%
4398     \edef\@gls@label{\glsdetoklabel{##1}}%
4399     \protected@write\auxout{}{%
4400         \string\@gls@reference
4401         {\csname glo@\@gls@label \type\endcsname}%
4402         {\@gls@label}%
4403         {%
4404             \string\glsseeformat##2{}%
4405         }%
4406     }%
4407 }%

```

If user removes the glossaries package from their document, ensure the next run doesn't throw a load of undefined control sequence errors when the aux file is parsed.

```

4408 \AtBeginDocument
4409 {%
4410     \write\auxout{\string\providecommand\string\gls@reference[3]{}}
4411 }%

```

Change warning about no glossaries

```

4412 \def\warn@noprintglossary{%
4413     \GlossariesWarningNoLine{No \string\printnoidxglossary\space
4414     or \string\printnoidxglossaries ^^J
4415     found. (Remove \string\makenoidxglossaries\space if you

```

```

4416      don't want any glossaries.)^^JThis document will not have a glossary}%
4417  }%
    Suppress warning about no \makeglossaries
4418  \let\warn@nomakeglossaries\relax
    Prevent user from also using \makeglossaries
4419  \let\makeglossaries\@no@makeglossaries
    Allow sort key in printgloss family:
4420  \renewcommand*{\@printgloss@setsort}{%
4421      \let\@glo@assign@sortkey\@glo@assign@sortkey
    Initialise default sort order:
4422  \def\@glo@sorttype{\@glo@default@sorttype}%
4423  }%
    All entries must be defined in the preamble:
4424  \renewcommand*\new@glossaryentry[2]{%
4425      \PackageError{glossaries}{Glossary entries must be
4426      defined in the preamble}^^Jwhen you use
4427      \string\maketitleglossaries}%
4428  {Either move your definitions to the preamble or use
4429      \string\makeglossaries}%
4430  }%
    Redefine \glsentrynumberlist
4431  \renewcommand*{\glsentrynumberlist}[1]{%
4432      \letcs{\@gls@loclist}{\glsdetoklabel{##1}@loclist}%
4433      \ifdef{\gls@loclist}
4434  {}%
4435      \glsnoidxloclist{\@gls@loclist}%
4436  {}%
4437  {}%
4438      \ifglsentryexists{##1}%
4439  {}%
4440      \GlossariesWarning{Missing location list for '##1'. Either
4441          a rerun is required or you haven't referenced the entry.}%
4442  {}%
4443  {}%
4444      \PackageError{glossaries}{Glossary entry '##1' has not been
4445          defined.}{}%
4446  {}%
4447  {}%
4448  }%
    Redefine \glsdisplaynumberlist
4449  \renewcommand*{\glsdisplaynumberlist}[1]{%
4450      \letcs{\@gls@loclist}{\glsdetoklabel{##1}@loclist}%
4451      \ifdef{\gls@loclist}
4452  {}%
4453      \def\@gls@noidxloclist@sep{%

```

```

4454     \def\@gls@noidxloclist@sep{%
4455         \def\@gls@noidxloclist@sep{%
4456             \glsnumlistsep
4457         }%
4458         \def\@gls@noidxloclist@finalsep{\glsnumlistlastsep}%
4459     }%
4460   }%
4461   \def\@gls@noidxloclist@finalsep{}%
4462   \def\@gls@noidxloclist@prev{}%
4463   \forlistloop{\glsnoidxdisplayloclisthandler}{\@gls@loclist}%
4464   \@gls@noidxloclist@finalsep
4465   \@gls@noidxloclist@prev
4466 }%
4467 {%
4468   ??\ifglsentryexists{##1}%
4469   {%
4470     \GlossariesWarning{Missing location list for ‘##1’. Either
4471       a rerun is required or you haven’t referenced the entry.}%
4472   }%
4473   {%
4474     \PackageError{glossaries}{Glossary entry ‘##1’ has not been
4475       defined.}{}%
4476   }%
4477 }%
4478 }%

```

Provide a generic way of iterating through the number list:

```

4479 \renewcommand*\glsnumberlistloop}[3]{%
4480   \letcs{\@gls@loclist}{\glsdetoklabel{##1}@loclist}%
4481   \let\@gls@org@glsnoidxdisplayloc\glsnoidxdisplayloc
4482   \let\@gls@org@glsseeformat\glsseeformat
4483   \let\glsnoidxdisplayloc##2\relax
4484   \let\glsseeformat##3\relax
4485   \ifdef{\@gls@loclist}
4486   {%
4487     \forlistloop{\glsnoidxnumberlistloophandler}{\@gls@loclist}%
4488   }%
4489   {%
4490     \ifglsentryexists{##1}%
4491     {%
4492       \GlossariesWarning{Missing location list for ‘##1’. Either
4493         a rerun is required or you haven’t referenced the entry.}%
4494     }%
4495     {%
4496       \PackageError{glossaries}{Glossary entry ‘##1’ has not been
4497         defined.}{}%
4498     }%
4499   }%
4500   \let\glsnoidxdisplayloc\@gls@org@glsnoidxdisplayloc
4501   \let\glsseeformat\@gls@org@glsseeformat

```

```

4502  }%
    Modify sanitize sort function
4503  \let\@@gls@sanitizesort\@gls@noidx@sanitizesort
4504  \let\@@gls@nosanitizesort\@gls@noidx@nosanitizesort
4505  \@gls@noidx@setsanitizesort
4506 }

Preamble-only command:
4507 \onlypreamble{\makenoidxglossaries}

```

\glsnumberlistloop \glsnumberlistloop{*label*}{*handler*}

```

4508 \newcommand*\glsnumberlistloop[2]{%
4509   \PackageError{glossaries}{\string\glsnumberlistloop\space
4510   only works with \string\makenoidxglossaries}{}
4511 }

```

\glsnumberlistloophandler Handler macro for \glsnumberlistloop. (The argument should be in the form \glsnoidxdisplayloc{*prefix*}{*counter*}{*format*}{*n*})

```

4512 \newcommand*\glsnoidxnumberlistloophandler[1]{%
4513   #1%
4514 }

```

\@no@makeglossaries Can't use both \makeglossaries and \makenoidxglossaries

```

4515 \newcommand*\@no@makeglossaries{%
4516   \PackageError{glossaries}{You can't use both
4517   \string\makeglossaries\space and \string\makenoidxglossaries}{%
4518   {Either use one or other (or none) of those commands but not both
4519   together.}}
4520 }

```

\@gls@noref@warn Warning when no instances of \@gls@reference found.

```

4521 \newcommand{\@gls@noref@warn}[1]{%
4522   \GlossariesWarning{\string\makenoidxglossaries\space
4523   is required to make \string\printnoidxglossary[type={#1}] work}%
4524 }

```

\gls@noidxglossary Write the glossary information to the aux file:

```

4525 \newcommand*\gls@noidxglossary{%
4526   \protected@write\@auxout{}{%
4527     \string\@gls@reference
4528     {\csname glo@\@gls@label @type\endcsname}%
4529     {\@gls@label}%
4530     {\string\glsnoidxdisplayloc
4531       {\@glo@counterprefix}%
4532       {\@gls@counter}%
4533       {\@glsnumberformat}}%

```

```

4534      {\@glslocref}%
4535    }%
4536  }%
4537 }

```

1.13 Writing information to associated files

\istfile Deprecated.

```
4538 \def\istfile{\glswrite}
```

At the end of the document, the files should be created if savewrites=true.

```

4539 \AtEndDocument{%
4540   \glswritefiles
4541 }

```

\@glswritefiles Only write the files if savewrites=true

```
4542 \newcommand*{\@glswritefiles}{%
```

Iterate through all the glossaries

```
4543 \forallglossaries{\@glo@type}{%
```

Check for empty glossaries (patch provided by Patrick Häcker)

```

4544 \ifcsundef{\glo@\@glo@type \@filetok}{%
4545   {%
4546     \def\gls@tmp{}%
4547   }%
4548   {%
4549     \edef\gls@tmp{\expandafter\the
4550       \csname glo@\@glo@type \@filetok\endcsname}%
4551   }%
4552   \ifx\gls@tmp\empty
4553     \ifx\@glo@type\glsdefaulttype
4554       \GlossariesWarningNoLine{Glossary '\@glo@type' has no
4555         entries.^^JRemember to use package option 'nomain' if
4556 you
4557         don't want to^^Juse the main glossary}%
4558     \else
4559       \GlossariesWarningNoLine{Glossary '\@glo@type' has no
4560         entries}%
4561     \fi
4562   \else
4563     \@glsopenfile{\glswrite}{\@glo@type}%
4564     \immediate\write\glswrite{%
4565       \expandafter\the
4566         \csname glo@\@glo@type \@filetok\endcsname}%
4567       \immediate\closeout\glswrite
4568     \fi
4569   }%
4570 }

```

As from v4.10, the `\glossary` command is used by the `glossaries` package. Since the user isn't expected to use this command (as `glossaries` takes care of the particular format required for `makeindex/xindy`) there's no need for a user level command. Using a custom internal command prevents any conflict with other packages (and with the `\mark` mechanism).

In v4.10, the redefinition of `\glossary` was removed since it wasn't intended as a user level command, however it seems there are packages that have hacked the internal macros used by `glossaries` and no longer work with this redefinition removed, so it's been restored in v4.11 but is not used at all by `glossaries`. (This may be removed or moved to a compatibility mode in future.)

```
\glossary
4571 \if@gls@docloaded
4572 \else
4573   \renewcommand*{\glossary}[1][main]{\gls@glossary{#1}}
4574 \fi
```

The associated number should be stored in `\the\glstentrycounter` before using `\gls@glossary`.

```
\gls@glossary
4575 \newcommand*{\gls@glossary}[1]{%
4576   @_gls@glossary{#1}%
4577 }
```

`\@gls@glossary` (In v4.10, `\@glossary` was redefined to `\@gls@glossary` to avoid conflict with other packages.) Define internal `\@gls@glossary` to ignore its argument. This gets redefined in `\@makeglossary`. This is defined to just `\index` as `memoir` changes the definition of `\index`. (Thanks to Dan Luecking for pointing this out.) The argument #1 is the glossary type.

```
4578 \newcommand*{\@gls@glossary}[1]{\index}
```

This is a convenience command to set `\@gls@glossary`. It's used by `\@makeglossary` and then redefined to do nothing, as it only needs to be done once.

```
\@gls@renewglossary
4579 \newcommand{\@gls@renewglossary}{%
4580   \gdef\@gls@glossary##1{\@bsphack\begingroup\gls@wrglossary{##1}}%
4581   \let\@gls@renewglossary\empty
4582 }
```

The `\gls@wrglossary` command is defined to have two arguments. The first argument is the glossary type, the second argument is the glossary entry (the format of which is set in `\glslink`).

```
\gls@wrglossary
4583 \newcommand*{\gls@wrglossary}[2]{%
4584   \ifglssavewrites
```

```

4585   \protected@edef{\gls@tmp{\the\csname glo@#1@filetok\endcsname#2}%
4586     \expandafter\global\expandafter\csname glo@#1@filetok\endcsname
4587       \expandafter{\gls@tmp^{^J}}%
4588   \else
4589     \ifcsdef{glo@#1@file}%
4590     {%
4591       \expandafter\protected@write\csname glo@#1@file\endcsname{%
4592         \gls@disablepagerefexpansion}{#2}%
4593     }%
4594     {%
4595       \ifignoredglossary{#1}{}%
4596     }%
4597       \GlossariesWarning{No file defined for glossary '#1'}%
4598     }%
4599   }%
4600 \fi
4601 \endgroup\@esphack
4602 }

```

\@do@wrglossary

```

4603 \newcommand*{\@do@wrglossary}[1]{%
4604   \ifglsindexonlyfirst
4605     \ifglsused{#1}{}{\@do@wrglossary{#1}}%
4606   \else
4607     \@@do@wrglossary{#1}%
4608   \fi
4609 }

```

@protected@pagefmts List of page formats to be protected against expansion.

```

4610 \newcommand{\gls@protected@pagefmts}{%
4611   \gls@numberpage,\gls@alphpage,\gls@Alphpage,\gls@romanpage,\gls@Romanpage%
4612 }

```

\@lepagerefexpansion

```

4613 \newcommand*{\gls@disablepagerefexpansion}{%
4614   \cfor{\gls@this}{\gls@protected@pagefmts}{\do
4615     {%
4616       \expandafter\let\gls@this\relax
4617     }%
4618 }

```

\gls@alphpage

```
4619 \newcommand*{\gls@alphpage}{\@alph\c@page}
```

\gls@Alphpage

```
4620 \newcommand*{\gls@Alphpage}{\@Alph\c@page}
```

```

\gls@numberpage
4621 \newcommand*{\gls@numberpage}{\number\c@page}

\gls@romanpage
4622 \newcommand*{\gls@romanpage}{\romannumeral\c@page}

\gls@Romanpage
4623 \newcommand*{\gls@Romanpage}{\@Roman\c@page}

```

`\glsaddprotectedpagefmt {\glsaddprotectedpagefmt{<cs name>}}`

Added a page format to the list of protected page formats. The argument should be the name (without a backslash) of the command that takes a TeX register as the argument (`\<csname>\c@page` must be valid).

```

4624 \newcommand*{\glsaddprotectedpagefmt}[1]{%
4625   \eappto{\gls@protected@pagefmts}{\expandonce{\csname gls#1page\endcsname}}%
4626   \csedef{\gls#1page}{\expandonce{\csname#1\endcsname}\noexpand\c@page}%
4627   \eappto{\@wrglossarynumberhook}{%
4628     \noexpand\let\expandonce{\csname org@gls#1\endcsname}%
4629       \expandonce{\csname#1\endcsname}%
4630     \noexpand\def\expandonce{\csname#1\endcsname}{%
4631       \noexpand\@wrglossary@pageformat
4632         \expandonce{\csname gls#1page\endcsname}%
4633         \expandonce{\csname org@gls#1\endcsname}%
4634     }%
4635   }%
4636 }

```

`\@do@wrglossary` Hook used by `\@do@wrglossary`

```
4637 \newcommand*{\@wrglossarynumberhook}{}%
```

`\glossary@pageformat`

```
4638 \newcommand{\@wrglossary@pageformat}[3]{%
4639   \ifx#3\c@page #1\else #2#3\fi
4640 }
```

`\@do@wrglossary` Write the glossary entry in the appropriate format. (Need to set `\@glsnumberformat` and `\@gls@counter` prior to use.) The argument is the entry's label.

```
4641 \newcommand*{\@do@wrglossary}[1]{%
4642   \begingroup
```

First a bit of hackery to prevent premature expansion of `\c@page`. Store original definitions:

```
4643   \let\orgthe\the
4644   \let\orgnumber\number
4645   \let\orgromannumeral\romannumeral
```

```

4646 \let\orgalph\@alph
4647 \let\orgAlph\@Alph
4648 \let\orgRoman\@Roman

```

Redefine:

```

4649 \def\the##1{%
4650   \ifx##1\c@page \gls@numberpage\else\orgthe##1\fi}%
4651 \def\number##1{%
4652   \ifx##1\c@page \gls@numberpage\else\orgnumber##1\fi}%
4653 \def\romannumeral##1{%
4654   \ifx##1\c@page \gls@romanpage\else\orgromannumeral##1\fi}%
4655 \def\@Roman##1{%
4656   \ifx##1\c@page \gls@Romanpage\else\orgRoman##1\fi}%
4657 \def\@alph##1{%
4658   \ifx##1\c@page \gls@alphpage\else\orgalph##1\fi}%
4659 \def\@Alph##1{%
4660   \ifx##1\c@page \gls@Alphpage\else\orgAlph##1\fi}%

```

Add hook to allow for other number formats:

```
4661 \wrglossarynumberhook
```

Prevent expansion:

```
4662 \gls@disablepagerefexpansion
```

Now store location in \glslocref:

```

4663 \protected\xdef\glslocref{\theglsentrycounter}%
4664 \endgroup

```

Escape any special characters

```
4665 \gls@checkmkidxchars\glslocref
```

Check if the hyper-location is the same as the location and set the hyper prefix.

```

4666 \expandafter\ifx\theHglsentrycounter\theglsentrycounter\relax
4667   \def\@glo@counterprefix{}%
4668 \else
4669   \protected\edef\glsHlocref{\theHglsentrycounter}%
4670   \gls@checkmkidxchars\glsHlocref
4671   \edef\@do@gls@getcounterprefix{\noexpand\gls@getcounterprefix
4672     {\glslocref}{\glsHlocref}}%
4673   }%
4674   \@do@gls@getcounterprefix
4675 \fi

```

De-tok label if required

```
4676 \edef\gls@label{\glsdetoklabel{\#1}}%
```

Write the information to file:

```

4677 \@@do@@wrglossary
4678 }

```

\@@do@@wrglossary

```
4679 \newcommand*\@@do@@wrglossary{%
```

Determine whether to use xindy or makeindex syntax

```
4680 \ifglsxindy
```

Need to determine if the formatting information starts with a (or) indicating a range.

```
4681 \expandafter\@glo@check@mkidxrangechar\@glsnumberformat\@nil
4682 \def\@glo@range{}%
4683 \expandafter\if\@glo@prefix(\relax
4684     \def\@glo@range{:open-range}%
4685 \else
4686     \expandafter\if\@glo@prefix)\relax
4687         \def\@glo@range{:close-range}%
4688     \fi
4689 \fi
```

Write to the glossary file using xindy syntax.

```
4690 \gls@glossary{\csname glo@\gls@label @type\endcsname}{%
4691   (indexentry :tkey (\csname glo@\gls@label @index\endcsname)
4692     :locref \string"\@glo@counterprefix}\@glslocref\string" %
4693     :attr \string"\@gls@counter\@glo@suffix\string"
4694     \@glo@range
4695   )
4696 }%
4697 \else
```

Convert the format information into the format required for makeindex

```
4698 \set@glo@numformat{\glo@numfmt}{\gls@counter}{\glsnumberformat}%
4699   {\glo@counterprefix}%
```

Write to the glossary file using makeindex syntax.

```
4700 \gls@glossary{\csname glo@\gls@label @type\endcsname}{%
4701   \string\glossaryentry{\csname glo@\gls@label @index\endcsname
4702     \@gls@encapchar\glo@numfmt}\@glslocref}%
4703 \fi
4704 }
```

`\gls@getcounterprefix` Get the prefix that needs to be prepended to counter in order to get the hyper counter. (For example, with the standard article class and hyperref, `\theequation` needs to be prefixed with `\section{num}`.| to get the equivalent `\theHequation`.) NB this assumes that the prefix ends with a dot, which is the standard. (Otherwise it makes the xindy location classes more complicated.)

```
4705 \newcommand*\gls@getcounterprefix[2]{%
4706   \edef\@gls@thisloc{\#1}\edef\@gls@thisHloc{\#2}%
4707   \ifx\@gls@thisloc\@gls@thisHloc
4708     \def\@glo@counterprefix{}%
4709   \else
4710     \def\@gls@get@counterprefix##1.#1##2\end@getprefix{%
4711       \def\@glo@tmp{\#2}%
4712       \ifx\@glo@tmp\empty
```

```

4713      \def\@glo@counterprefix{}%
4714      \else
4715          \def\@glo@counterprefix{##1}%
4716          \fi
4717      }%
4718  \gls@get@counterprefix#2.#1\end@getprefix

```

Warn if no prefix can be formed.

```

4719  \ifx\@glo@counterprefix\empty
4720      \GlossariesWarning{Hyper target '#2' can't be formed by
4721          prefixing^Jlocation '#1'. You need to modify the
4722          definition of \string\theH\@gls@counter^Jotherwise you
4723          will get the warning: "‘name{\@gls@counter.#1}’ has been^J
4724          referenced but does not exist"}%
4725      \fi
4726  \fi
4727 }

```

1.14 Glossary Entry Cross-References

\@do@seeglossary Write the glossary entry with a cross reference. The first argument is the entry's label, the second must be in the form [*tag*] {*list*}, where *tag* is a tag such as "see" and *list* is a list of labels.

```

4728 \newcommand{\@do@seeglossary}[2]{%
4729 \def\@gls@xref[#2]{%
4730 \onelevel@sanitize\@gls@xref
4731 \gls@checkmkidxchars\@gls@xref
4732 \ifglsxindy
4733     \gls@glossary{\csname glo@#1@type\endcsname}{%
4734         (indexentry
4735             :tkey (\csname glo@#1@index\endcsname)
4736             :xref (\string"\@gls@xref\string")
4737             :attr \string"see\string"
4738         )
4739     }%
4740 \else
4741     \gls@glossary{\csname glo@#1@type\endcsname}{%
4742         \string\glossaryentry{\csname glo@#1@index\endcsname
4743             \gls@encapchar glsseeformat\@gls@xref}{Z}}%
4744 \fi
4745 }

```

\@gls@fixbraces If no optional argument is specified, list needs to be enclosed in a set of braces.

```

4746 \def\@gls@fixbraces#1#2#3\@nil{%
4747     \ifx#2[\relax
4748         @@gls@fixbraces#1#2#3\@end@fixbraces
4749     \else
4750         \def#1{{#2#3}}%
4751     \fi

```

4752 }

\@@gls@fixbraces

4753 \def\@@gls@fixbraces#1[#2]#3\end@fixbraces{%

4754 \def#1[#2]{#3} }%

4755 }

\glssee \glssee{\label}{\crossreflist}

4756 \DeclareRobustCommand*\glssee}[3][\seename]{%

4757 \do@seeglossary{#2}{[#1]{#3}} }%

4758 \newcommand*\glssee}[3][\seename]{%

4759 \glssee[#1]{#3}{#2}}

\glsseeformat The first argument specifies what tag to use (e.g. “see”), the second argument is a comma-separated list of labels. The final argument (the location) is ignored.

4760 \DeclareRobustCommand*\glsseeformat}[3][\seename]{%

4761 \emph{#1} \glsseelist{#2}}

\glsseelist \glsseelist{\list} formats list of entry labels.

4762 \DeclareRobustCommand*\glsseelist}[1]{%

If there is only one item in the list, set the last separator to do nothing.

4763 \let\gls@dolast\relax

Don't display separator on the first iteration of the loop

4764 \let\gls@donext\relax

Iterate through the labels

4765 \for\gls@thislabel:=#1\do{%

Check if on last iteration of loop

4766 \ifx\xfor@nextelement\relax

4767 \gls@dolast

4768 \else

4769 \gls@donext

4770 \fi

Display the entry for this label. (Expanding label as it's a temporary control sequence that's used elsewhere.)

4771 \expandafter\glsseeitem\expandafter{\gls@thislabel}%

Update separators

4772 \let\gls@dolast\glsseelastsep

4773 \let\gls@donext\glsseesep

4774 }%

4775 }

\glsseelastsep Separator to use between penultimate and ultimate entries in a cross-referencing list.

4776 \newcommand*\glsseelastsep}{\space\andname\space}

\glsseesep Separator to use between entires in a cross-referencing list.

4777 \newcommand*{\glsseesep}{, }

\glsseeitem \glsseeitem{*label*} formats individual entry in a cross-referencing list.

4778 \DeclareRobustCommand*{\glsseeitem}[1]{\glshyperlink[\glsseeitemformat{#1}]{#1}}

\glsseeitemformat As from v3.0, default is to use \glsentrytext instead of \glsentryname. (To avoid problems with the name key being sanitized.)

4779 \newcommand*{\glsseeitemformat}[1]{\glsentrytext{#1}}

1.15 Displaying the glossary

An individual glossary is displayed in the text using \printglossary[*key-val list*]. If the type key is omitted, the default glossary is displayed. The optional argument can be used to specify an alternative glossary, and can also be used to set the style, title and entry in the table of contents. Available keys are defined below.

gls@save@numberlist Provide command to store number list.

```
4780 \newcommand*{\gls@save@numberlist}[1]{%
4781   \ifglsavenuumberlist
4782     \toks@{\#1}%
4783     \edef\@do@writeaux@info{%
4784       \noexpand\csgdef{glo@\glscurrententrylabel}{\numberlist}{\the\toks@}%
4785     }%
4786     \onelevel@sanitize\@do@writeaux@info
4787     \protected@write{\auxout}{}{\@do@writeaux@info}%
4788   \fi
4789 }
```

arn@noprintglossary Warn the user if they have forgotten \printglossaries or \printglossary. (Will be suppressed if there is at least one occurrence of \printglossary. There is no check to ensure that there is a \printglossary for each defined glossary.)

4790 \newcommand*{\warn@noprintglossary}{}%

\printglossary The TOC title needs to be processed in a different manner to the main title in case the translator and hyperref packages are both being used.

```
4791 \ifcsundef{printglossary}{}%
4792 {}%
```

If \printglossary is already defined, issue a warning and undefine it.

```
4793   \@gls@warnonglossdefined
4794   \undef\printglossary
4795 }
```

`\printglossary` has an optional argument. The default value is to set the glossary type to the main glossary.

```
4796 \newcommand*{\printglossary}[1][type=\glsdefaulttype]{%
4797   \g@printglossary{#1}{\g@print@glossary}%
4798 }
```

The `\printglossaries` command will do `\printglossary` for each glossary type that has been defined. It is better to use `\printglossaries` rather than individual `\printglossary` commands to ensure that you don't forget any new glossaries you may have created. It also makes it easier to chop and change the value of the acronym package option. However, if you want to list the glossaries in a different order, or if you want to set the title or table of contents entry, or if you want to use different glossary styles for each glossary, you will need to use `\printglossary` explicitly for each glossary type.

`\printglossaries`

```
4799 \newcommand*{\printglossaries}{%
4800   \forallglossaries{\glo@type}{\printglossary[type=\glo@type]}%
4801 }
```

`\printnoidxglossary` Provide an alternative to `\printglossary` that doesn't require an external indexing application. Entries won't be sorted and the location list will be empty.

```
4802 \newcommand*{\printnoidxglossary}[1][type=\glsdefaulttype]{%
4803   \g@printglossary{#1}{\printnoidxglossary[type=\glo@type]}%
4804 }
```

`\printnoidxglossaries` Analogous to `\printglossaries`

```
4805 \newcommand*{\printnoidxglossaries}{%
4806   \forallglossaries{\glo@type}{\printnoidxglossary[type=\glo@type]}%
4807 }
```

`@printgloss@setsort` Initialise to do nothing.

```
4808 \newcommand*{@printgloss@setsort}{}%
```

`\@printglossary` Sets up the glossary for either `\printglossary` or `\printnoidxglossary`. The first argument is the options list, the second argument is the handler macro that deals with the actual glossary.

```
4809 \newcommand{\@printglossary}[2]{%
  Set up defaults.
  4810   \def\glo@type{\glsdefaulttype}%
  4811   \def\glossarytitle{\csname \glo@type@title\endcsname}%
  4812   \def\glossarytoctitle{\glossarytitle}%
  4813   \let\org@glossarytitle\glossarytitle
  4814   \def@glossarystyle{}%
  4815   \def\gls@dotocstyle{\glssettoctitle{\glo@type}}%
```

Store current value of \glossaryentrynumbers. (This may be changed via the optional argument)

```
4816 \let\org@glossaryentrynumbers\glossaryentrynumbers
```

Localise the effects of the optional argument

```
4817 \bgroup
```

Activate or deactivate sort key:

```
4818 \printgloss@setsort
```

Determine settings specified in the optional argument.

```
4819 \setkeys{printgloss}{#1}%
```

If title has been set, but toctitle hasn't, make toctitle the same as given title (rather than the title used when the glossary was defined)

```
4820 \ifx\glossarytitle\org@glossarytitle
```

```
4821 \else
```

```
4822 \expandafter\let\csname @glotype@\glo@type @title\endcsname
```

```
4823 \glossarytitle
```

```
4824 \fi
```

Allow a high-level user command to indicate the current glossary

```
4825 \let\currentglossary@glo@type
```

Enable individual number lists to be suppressed.

```
4826 \let\org@glossaryentrynumbers\glossaryentrynumbers
```

```
4827 \let\glsnonextpages@glsnonextpages
```

Enable individual number list to be activated:

```
4828 \let\glsnextpages@glsnextpages
```

Enable suppression of description terminators.

```
4829 \let\nopostdesc@nopostdesc
```

Set up the entry for the TOC

```
4830 \gls@dotocitle
```

Set the glossary style

```
4831 \glossarystyle
```

Added a way to fetch the current entry label (v3.08 updated for new \glossentry and \subglossentry, but this is now only needed for backward compatibility):

```
4832 \let\gls@org@glossaryentryfield\glossentry
4833 \let\gls@org@glossarysubentryfield\subglossentry
4834 \renewcommand{\glossentry}[1]{%
4835   \xdef\glscurrententrylabel{\glsdetoklabel{##1}}%
4836   \gls@org@glossaryentryfield{##1}%
4837 }%
4838 \renewcommand{\subglossentry}[2]{%
4839   \xdef\glscurrententrylabel{\glsdetoklabel{##2}}%
4840   \gls@org@glossarysubentryfield{##1}{##2}%
4841 }%
```

Now do the handler macro that deals with the actual glossary:

```
4842      #2%
End the current scope
4843  \egroup
Reset \glossaryentrynumbers
4844  \global\let\glossaryentrynumbers\org@glossaryentrynumbers
Suppress warning about no \printglossary
4845  \global\let\warn@noprintglossary\relax
4846 }
```

\@print@glossary Internal workings of \printglossary dealing with reading the external file.

```
4847 \newcommand{\@print@glossary}{%
```

Some macros may end up being expanded into internals in the glossary, so need to make @ a letter. (Unlikely to be a problem since v3.08a but kept for backward compatibility.)

```
4848  \makeatletter
```

Input the glossary file, if it exists.

```
4849  \@input{\jobname.\csname \glotype@\glo@type \in\endcsname}%
```

If the glossary file doesn't exist, do \null. (This ensures that the page is shipped out and all write commands are done.) This might produce an empty page, but at this point the document isn't complete, so it shouldn't matter.

```
4850  \IfFileExists{\jobname.\csname \glotype@\glo@type \in\endcsname}%
4851  {}%
4852  {\null}
```

If xindy is being used, need to write the language dependent information to the .aux file for `makerglossaries`.

```
4853  \ifglsxindy
4854    \ifcsundef{\xdy@\glo@type \language}%
4855    {}%
4856    \edef\do@auxoutstuff{%
4857      \noexpand\AtEndDocument{%
```

If the user removes the glossary package from their document, ensure the next run doesn't throw a load of undefined control sequence errors when the aux file is parsed.

```
4858      \noexpand\immediate\noexpand\write\auxout{%
4859        \string\providetoggle\string\@xdylanguage[2]{}}%
4860        \noexpand\immediate\noexpand\write\auxout{%
4861          \string\@xdylanguage{\glo@type}{\xdy@main@language}}%
4862        }%
4863      }%
4864    }%
4865    {}%
4866    \edef\do@auxoutstuff{%
```

```

4867     \noexpand\AtEndDocument{%
4868         \noexpand\immediate\noexpand\write\@auxout{%
4869             \string\providecommand\string\@xdylanguage[2]{}%}
4870             \noexpand\immediate\noexpand\write\@auxout{%
4871                 \string\@xdylanguage{\@glo@type}{\csname\@xdy@\@glo@type
4872                     @language\endcsname}}%
4873             }%
4874         }%
4875     }%
4876     \do@auxoutstuff
4877     \edef\do@auxoutstuff{%
4878         \noexpand\AtEndDocument{%

```

If the user removes the glossaries package from their document, ensure the next run doesn't throw a load of undefined control sequence errors when the aux file is parsed.

```

4879         \noexpand\immediate\noexpand\write\@auxout{%
4880             \string\providecommand\string\@gls@codepage[2]{}%}
4881             \noexpand\immediate\noexpand\write\@auxout{%
4882                 \string\@gls@codepage{\@glo@type}{\gls@codepage}}%
4883             }%
4884         }%
4885     \do@auxoutstuff
4886 \fi

```

Activate warning if \makeglossaries hasn't been used.

```

4887 \renewcommand*\@warn@nomakeglossaries{%
4888     \GlossariesWarningNoLine{\string\makeglossaries\space
4889     hasn't been used, ^Jthe glossaries will not be updated}%
4890 }%
4891 }

```

The sort macros all have the syntax:

`\@glo@sortmacro@<order>{<type>}`

where *<order>* is the sort order as specified by the sort key and *<type>* is the glossary type. (The referenced entry list is stored in `\@glsref@<type>`. The actual sorting is done by `\@glo@sortentries{<handler>}@<type>`.

```

\@glo@sortentries
4892 \newcommand*\@glo@sortentries[2]{%
4893     \def\@glo@sortinglist{}%
4894     \def\@glo@sortinghandler{\#1}%
4895     \edef\@glo@type{\#2}%
4896     \forlisttcsloop{\@glo@do@sortentries}{\@glsref{\#2}}%
4897     \csdef{\@glsref{\#2}}{}%
4898     \for@this@label:=\@glo@sortinglist\do{%

```

Has this entry already been added?

```
4899     \xifinlistcs{@this@label}{@glsref@#2}%
4900     {}%
4901     {}%
4902     \listcsxadd{@glsref@#2}{@this@label}%
4903     }%
4904     \ifcsdef{@glo@sortingchildren@}{@this@label}%
4905     {}%
4906     @glo@addchildren{#2}{@this@label}%
4907     }%
4908     {}%
4909     }%
4910 }
```

```
@glo@addchildren  @glo@addchildren{<type>}{<parent>}
```

```
4911 \newcommand*{@glo@addchildren}[2]{%
```

Scope to allow nesting.

```
4912 \bgroup
4913   \letcs{@glo@childlist}{@glo@sortingchildren@#2}%
4914   @for@this@childlabel:=@glo@childlist\do
4915   {}%
```

Check this label hasn't already been added.

```
4916   \xifinlistcs{@this@childlabel}{@glsref@#1}%
4917   {}%
4918   {}%
4919   \listcsxadd{@glsref@#1}{@this@childlabel}%
4920   }%
```

Does this child have children?

```
4921   \ifcsdef{@glo@sortingchildren@}{@this@childlabel}%
4922   {}%
4923   @glo@addchildren{#1}{@this@childlabel}%
4924   }%
4925   {}%
4926   }%
4927   }%
4928 \egroup
4929 }
```

```
@glo@do@sortentries
```

```
4930 \newcommand*{@glo@do@sortentries}[1]{%
4931   \ifglshasparent{#1}%
4932   {}%
```

This entry has a parent, so add it to the child list

```
4933   \edef@glo@parent{\csuse{glo@glsdetoklabel{#1}@parent}}%
```

```

4934     \ifcsundef{@glo@sortingchildren@\glo@parent}%
4935     {%
4936         \csdef{@glo@sortingchildren@\glo@parent}{}%
4937     }%
4938     {}%
4939     \expandafter\glo@sortedinsert
4940         \csname @glo@sortingchildren@\glo@parent\endcsname{#1}%

```

Has the parent been added?

```

4941     \xifinlistcs{@glo@parent}{\glsref@\glo@type}%
4942     {%

```

Yes, it has so do nothing.

```

4943     }%
4944     {}%

```

No, it hasn't so add it now.

```

4945         \expandafter\glo@do@sortentries\expandafter{\glo@parent}%
4946     }%
4947     }%
4948     {}%
4949     \glo@sortedinsert{\glo@sortinglist}{#1}%
4950     }%
4951 }

```

`\glo@sortedinsert {\glo@sortedinsert{\langle list\rangle}{\langle entry label\rangle}}`

Insert into list.

```

4952 \newcommand*{\glo@sortedinsert}[2]{%
4953     \dtl@insertinto{#2}{#1}{\glo@sortinghandler}%
4954 }%

```

The sort handlers need to be in the form required by datatool's `\dtl@sortlist` macro. These must set the count register `\dtl@sortresult` to either `-1` (#1 less than #2), `0` (#1 = #2) or `+1` (#1 greater than #2).

`lo@sorthandler@word`

```

4955 \newcommand*{\glo@sorthandler@word}[2]{%
4956     \letcs{\gls@sort@A}{\glo@glsdetoklabel{#1}@sort}%
4957     \letcs{\gls@sort@B}{\glo@glsdetoklabel{#2}@sort}%
4958     \edef\glo@do@compare{%
4959         \noexpand\dtl@wordindexcompare{\noexpand\dtl@sortresult}%
4960         {\expandonce{\gls@sort@B}}%
4961         {\expandonce{\gls@sort@A}}%
4962     }%
4963     \glo@do@compare
4964 }

```

```

@sorthandler@letter
4965 \newcommand*{\@glo@sorthandler@letter}[2]{%
4966   \letcs@\gls@sort@A{\glo@\glsdetoklabel{#1}@sort}%
4967   \letcs@\gls@sort@B{\glo@\glsdetoklabel{#2}@sort}%
4968   \edef\glo@do@compare{%
4969     \noexpand\dtlletterindexcompare{\noexpand\dtl@sortresult}%
4970     {\expandonce\gls@sort@B}%
4971     {\expandonce\gls@sort@A}%
4972   }%
4973   \glo@do@compare
4974 }

lo@sorthandler@case Case-sensitive sort.
4975 \newcommand*{\@glo@sorthandler@case}[2]{%
4976   \letcs@\gls@sort@A{\glo@\glsdetoklabel{#1}@sort}%
4977   \letcs@\gls@sort@B{\glo@\glsdetoklabel{#2}@sort}%
4978   \edef\glo@do@compare{%
4979     \noexpand\dtlcompare{\noexpand\dtl@sortresult}%
4980     {\expandonce\gls@sort@B}%
4981     {\expandonce\gls@sort@A}%
4982   }%
4983   \glo@do@compare
4984 }

@sorthandler@nocase Case-insensitive sort.
4985 \newcommand*{\@glo@sorthandler@nocase}[2]{%
4986   \letcs@\gls@sort@A{\glo@\glsdetoklabel{#1}@sort}%
4987   \letcs@\gls@sort@B{\glo@\glsdetoklabel{#2}@sort}%
4988   \edef\glo@do@compare{%
4989     \noexpand\dtlicompare{\noexpand\dtl@sortresult}%
4990     {\expandonce\gls@sort@B}%
4991     {\expandonce\gls@sort@A}%
4992   }%
4993   \glo@do@compare
4994 }

@glo@sortmacro@word Sort macro for 'word'
4995 \newcommand*{\@glo@sortmacro@word}[1]{%
4996   \ifdefstring{\@glo@default@sorttype}{standard}%
4997   {%
4998     \@glo@sortentries{\@glo@sorthandler@word}{#1}%
4999   }%
5000   {%
5001     \PackageError{glossaries}{Conflicting sort options:^^J
5002       \string\usepackage[sort=\@glo@default@sorttype]{glossaries}^^J
5003       \string\printnoidxglossary[sort=word]}{}%
5004   }%
5005 }

```

```

lo@sortmacro@letter Sort macro for 'letter'
5006 \newcommand*{\@glo@sortmacro@letter}[1]{%
5007   \ifdefstring{\@glo@default@sorttype}{standard}{%
5008     {%
5009       \@glo@sortentries{\@glo@sorthandler@letter}{#1}%
5010     }%
5011   {%
5012     \PackageError{glossaries}{Conflicting sort options:^^J
5013       \string\usepackage[sort=\@glo@default@sorttype]{glossaries}^^J
5014       \string\printnoidxglossary[sort=letter]}{}%
5015   }%
5016 }

@sortmacro@standard Sort macro for 'standard'. (Use either 'word' or 'letter' order.)
5017 \newcommand*{\@glo@sortmacro@standard}[1]{%
5018   \ifdefstring{\@glo@default@sorttype}{standard}{%
5019     {%
5020       \ifcsdef{@glo@sorthandler@\glsorder}{%
5021         {%
5022           \@glo@sortentries{\csuse{@glo@sorthandler@\glsorder}}{#1}%
5023         }%
5024       {%
5025         \PackageError{glossaries}{Unknown sort handler '\glsorder'}{}%
5026       }%
5027     }%
5028   {%
5029     \PackageError{glossaries}{Conflicting sort options:^^J
5030       \string\usepackage[sort=\@glo@default@sorttype]{glossaries}^^J
5031       \string\printnoidxglossary[sort=standard]}{}%
5032   }%
5033 }

@glo@sortmacro@case Sort macro for 'case'
5034 \newcommand*{\@glo@sortmacro@case}[1]{%
5035   \ifdefstring{\@glo@default@sorttype}{standard}{%
5036     {%
5037       \@glo@sortentries{\@glo@sorthandler@case}{#1}%
5038     }%
5039   {%
5040     \PackageError{glossaries}{Conflicting sort options:^^J
5041       \string\usepackage[sort=\@glo@default@sorttype]{glossaries}^^J
5042       \string\printnoidxglossary[sort=case]}{}%
5043   }%
5044 }

lo@sortmacro@nocase Sort macro for 'nocase'
5045 \newcommand*{\@glo@sortmacro@nocase}[1]{%
5046   \ifdefstring{\@glo@default@sorttype}{standard}{%
5047     {%

```

```

5048     \@glo@sortentries{\@glo@sorthandler@nocase}{#1}%
5049   }%
5050   {%
5051     \PackageError{glossaries}{Conflicting sort options:^^J
5052       \string\usepackage[sort=\@glo@default@sorttype]{glossaries}^^J
5053       \string\printnoidxglossary[sort=nocase]}{}%
5054   }%
5055 }

```

\@glo@sortmacro@def Sort macro for ‘def’. The order of definition is given in \glolist@*(type)*.

```

5056 \newcommand*{\@glo@sortmacro@def}[1]{%
5057   \def@\glo@sortinglist{}%
5058   \forglsentries[#1]{\gls@thislabel}%
5059   {%
5060     \xifinlistcs{\gls@thislabel}{\glsref@#1}%
5061     {%
5062       \listead{\glo@sortinglist}{\gls@thislabel}%
5063     }%
5064   }%

```

Hasn’t been referenced.

```

5065   }%
5066 }%
5067 \cslet{\glsref@#1}{\glo@sortinglist}%
5068 }

```

\@glo@sortmacro@def@do This won’t include parent entries that haven’t been referenced.

```

5069 \newcommand*{\@glo@sortmacro@def@do}[1]{%
5070   \ifinlistcs[#1]{\glsref@\glo@type}%
5071   {}%
5072   {%
5073     \listcsadd{\glsref@\glo@type}{#1}%
5074   }%
5075   \ifcsdef{\glo@sortingchildren@#1}%
5076   {}%
5077   \glo@addchildren{\glo@type}{#1}%
5078   }%
5079 }%
5080 }

```

\@glo@sortmacro@use Sort macro for ‘use’. (No sorting is required, as the entries are already in order of use, so do nothing.)

```
5081 \newcommand*{\@glo@sortmacro@use}[1]{}
```

\printnoidx@glossary Glossary handler for \printnoidxglossary which doesn’t use an indexing application. Since \printnoidxglossary may occur at the start of the document, we can’t just check if an entry has been used. Instead, the first pass needs to write information to the aux file every time an entry is referenced. This needs

to be read in on the second run and stored in a list corresponding to the appropriate glossary.

```
5082 \newcommand*{\@print@noidx@glossary}{%
5083   \ifcsdef{@glsref@\@glo@type}{%
5084     {%
```

Sort the entries:

```
5085   \ifcsdef{@glo@sortmacro@\@glo@sorttype}{%
5086     {%
5087       \csuse{@glo@sortmacro@\@glo@sorttype}{\@glo@type}%
5088     }%
5089     {%
5090       \PackageError{glossaries}{Unknown sort handler '\@glo@sorttype'}{}%
5091     }%
```

Do the glossary heading and preamble

```
5092   \glossarysection[\glossarytoctitle]{\glossarytitle}%
5093   \glossarypreamble
5094   \begin{theglossary}%
5095     \glossaryheader
5096     \glsresetentrylist
5097     \def\@gls@currentlettergroup{}%
```

Iterate through the entries.

```
5098   \forlistcsloop{@gls@noidx@do}{@glsref@\@glo@type}%
```

Finally end the glossary and do the postamble:

```
5099   \end{theglossary}%
5100   \glossarypostamble
5101 }%
5102 {%
5103   \@gls@noref@warn{\@glo@type}%
5104 }%
5105 }
```

\glo@grabfirst

```
5106 \def\glo@grabfirst#1#2\@nil{%
5107   \def\@gls@firstrtok{#1}%
5108   \ifdefempty{\@gls@firstrtok}{%
5109     {%
5110       \def\@glo@thislettergrp{0}%
5111     }%
5112     {%
```

Sanitize it:

```
5113   \onelevel@sanitize\@gls@firstrtok
```

Fetch the first letter:

```
5114   \expandafter\glo@grabfirst\@gls@firstrtok{}{}\@nil
5115 }%
5116 }
```

```

\@glo@grabfirst
5117 \def\@glo@grabfirst#1#2\@nil{%
5118   \ifdefempty\@glo@thislettergrp
5119   {%
5120     \def\@glo@thislettergrp{glssymbols}%
5121   }%
5122   {%
5123     \count@=\uccode`#1\relax
5124     \ifnum\count@=0\relax
5125       \def\@glo@thislettergrp{glssymbols}%
5126     \else
5127       \ifdefstring\@glo@sorttype{case}%
5128       {%
5129         \count@='#1\relax
5130       }%
5131       {%
5132       }%
5133       \edef\@glo@thislettergrp{\the\count@}%
5134     \fi
5135   }%
5136 }

```

\@gls@noidx@do Handler for list iteration used by \@print@noidx@glossary. The argument is the entry label. This only allows one sublevel.

```

5137 \newcommand{\@gls@noidx@do}[1]{%
  Get this entry's location list
5138   \global\letcs{\@gls@loclist}{\glo@\glsdetoklabel{#1}@loclist}%
  Does this entry have a parent?
5139   \ifglshasparent{#1}%
5140   {%

```

Has a parent.

```

5141   \gls@level=\csuse{\glo@\glsdetoklabel{#1}@level}\relax
5142   \ifdefvoid{\@gls@loclist}
5143   {%
5144     \subglossentry{\gls@level}{#1}{}%
5145   }%
5146   {%
5147     \subglossentry{\gls@level}{#1}%
5148   }%
5149   \glossaryentrynumbers{\glsnoidxloclist{\@gls@loclist}}%
5150   }%
5151   }%
5152 }%
5153 {%

```

Doesn't have a parent Get this entry's sort key

```

5154   \letcs{\@gls@sort}{\glo@\glsdetoklabel{#1}@sort}%

```

Fetch the first letter:

```
5155     \expandafter\glo@grabfirst\@gls@sort{}{}@\nil  
5156     \ifdefequal{\@glo@thislettergrp}{\@gls@currentlettergroup} %  
5157     {}%  
5158     {}%
```

Do the group header:

```
5159     \ifdefempty{\@gls@currentlettergroup}{}{\gls@groupskip} %  
5160     \gls@groupheading{\@glo@thislettergrp} %  
5161     }%  
5162     \let\@gls@currentlettergroup\@glo@thislettergrp
```

Do this entry:

```
5163     \ifdefvoid{\@gls@loclist}  
5164     {}%  
5165     \glossentry{\#1}{}%  
5166     }%  
5167     {}%  
5168     \glossentry{\#1} %  
5169     {}%  
5170     \glossaryentrynumbers{\glsnoidxloclist{\@gls@loclist}} %  
5171     }%  
5172     {}%  
5173     {}%  
5174 }
```

\glsnoidxloclist \glsnoidxloclist{<list cs>}

Display location list.

```
5175 \newcommand*{\glsnoidxloclist}[1]{%  
5176   \def\@gls@noidxloclist@sep{}%  
5177   \def\@gls@noidxloclist@prev{}%  
5178   \forlistloop{\glsnoidxloclisthandler}{#1} %  
5179 }
```

noidxloclisthandler Handler for location list iterator.

```
5180 \newcommand*{\glsnoidxloclisthandler}[1]{%  
5181   \ifdefstring{\@gls@noidxloclist@prev}{#1} %  
5182   {}%
```

Same as previous location so skip.

```
5183   {}%  
5184   {}%  
5185   \def\@gls@noidxloclist@sep  
5186   #1%  
5187   \def\@gls@noidxloclist@sep{\delimN} %  
5188   \def\@gls@noidxloclist@prev{#1} %  
5189   {}%  
5190 }
```

```
splayloclisthandler Handler for location list iterator when used with \glsdisplaynumberlist.
```

```
5191 \newcommand*{\glsnoidxdisplayloclisthandler}[1]{%
5192   \ifdefstring{\@gls@noidxloclist@prev}{#1}%
5193   {%
5194     }%
5195   {%
5196     \@gls@noidxloclist@sep
5197     \@gls@noidxloclist@prev
5198     \def\@gls@noidxloclist@prev{#1}%
5199   }%
5200 }
```

Same as previous location so skip.

```
5194 }%
5195 {%
5196   \@gls@noidxloclist@sep
5197   \@gls@noidxloclist@prev
5198   \def\@gls@noidxloclist@prev{#1}%
5199 }%
5200 }
```

```
\glsnoidxdisplayloc \glsnoidxdisplayloc{\langle prefix\rangle}{\langle counter\rangle}{\langle format\rangle}{\langle location\rangle}
```

Display a location in the location list.

```
5201 \newcommand*\glsnoidxdisplayloc[4]{%
5202   \setentrycounter[#1]{#2}%
5203   \csuse{#3}{#4}%
5204 }
```

```
\@gls@reference \@gls@reference{\langle type\rangle}{\langle label\rangle}{\langle loc\rangle}
```

Identifies that a reference has been used (for use in the aux file). All entries must be defined in the preamble.

```
5205 \newcommand*\@gls@reference[3]{%
```

Add to label list

```
5206   \glsdoifexistsorwarn{#2}%
5207   {%
5208     \ifcsgundef{@glsref@#1}{\csgdef{@glsref@#1}{}{}}%
5209     \ifinlistcs{#2}{@glsref@#1}%
5210     {}%
5211     {\listcsgadd{@glsref@#1}{#2}}%
```

Add to location list

```
5212   \ifcsgundef{glo@\glsdetoklabel{#2}@loclist}%
5213   {\csgdef{glo@\glsdetoklabel{#2}@loclist}{}{}}
5214   {}%
5215   \listcsgadd{glo@\glsdetoklabel{#2}@loclist}{#3}%
5216   }%
5217 }
```

The keys that can be used in the optional argument to \printglossary or \printnoidxglossary are as follows: The type key sets the glossary type.

```
5218 \define@key{printgloss}{type}{\def@glo@type{#1}}
```

The title key sets the title used in the glossary section header. This overrides the title used in \newglossary.

```
5219 \define@key{printgloss}{title}{%
5220   \def\glossarytitle{\#1}%
5221   \let\gls@dotocitle\relax
5222 }
```

The toctitle sets the text used for the relevant entry in the table of contents.

```
5223 \define@key{printgloss}{toctitle}{%
5224   \def\glossarytoctitle{\#1}%
5225   \let\gls@dotocitle\relax
5226 }
```

The style key sets the glossary style (but only for the given glossary).

```
5227 \define@key{printgloss}{style}{%
5228   \ifcsundef{@glsstyle@\#1}%
5229   {%
5230     \PackageError{glossaries}%
5231     {Glossary style '#1' undefined}{}%
5232   }%
5233   {%
5234     \def\@glossarystyle{\setglossentrycompatibility
5235       \cscname @glsstyle@\#1\endcscname}%
5236   }%
5237 }
```

The numberedsection key determines if this glossary should be in a numbered section.

```
5238 \define@choicekey{printgloss}{numberedsection}[\val\nr]{%
5239 false,nolabel,autolabel,nameref}[nolabel]{%
5240   \ifcase\nr\relax
5241     \renewcommand*\@glossarysecstar{*}%
5242     \renewcommand*\@glossaryseclabel{}%
5243   \or
5244     \renewcommand*\@glossarysecstar{}%
5245     \renewcommand*\@glossaryseclabel{}%
5246   \or
5247     \renewcommand*\@glossarysecstar{}%
5248     \renewcommand*\@glossaryseclabel{\label{\glsautoprefix@glo@type}}%
5249   \or
5250     \renewcommand*\@glossarysecstar{*}%
5251     \renewcommand*\@glossaryseclabel{}%
5252     \protected@edef\@currentlabelname{\glossarytoctitle}%
5253     \label{\glsautoprefix@glo@type}}%
5254 \fi
5255 }
```

The nogroupskip key determines whether or not there should be a vertical gap between glossary groups.

```
5256 \define@choicekey{printgloss}{nogroupskip}{true,false}[true]{%
```

```
5257   \csuse{glsnogroupskip#1}%
5258 }
```

The `nopostdot` key has the same effect as the package option of the same name.

```
5259 \define@choicekey{printgloss}{nopostdot}{true,false}[true]{%
5260   \csuse{glsnopostdot#1}%
5261 }
```

The `entrycounter` key is the same as the package option but localised to the current glossary.

```
5262 \define@choicekey{printgloss}{entrycounter}{true,false}[true]{%
5263   \csuse{glseentrycounter#1}%
5264   \ifglseentrycounter
5265     \ifx\@gls@counterwithin\@empty
5266       \newcounter{glossaryentry}%
5267     \else
5268       \newcounter{glossaryentry}[\@gls@counterwithin]%
5269     \fi
5270     \def\theHglossaryentry{\currentglossary.\theglossaryentry}%
5271     \renewcommand*{\glsresetentrycounter}{%
5272       \setcounter{glossaryentry}{0}%
5273     }%
5274     \renewcommand*{\glsstepentry}[1]{%
5275       \refstepcounter{glossaryentry}%
5276       \label{glsentry-\glsdetoklabel{\#1}}%
5277     }%
5278     \renewcommand*{\glseentrycounterlabel}{\theglossaryentry.\space}%
5279     \renewcommand*{\glseentryitem}[1]{%
5280       \glsstepentry{\#1}\glseentrycounterlabel
5281     }%
5282   \else
5283     \renewcommand*{\glsresetentrycounter}{}%
5284     \renewcommand*{\glsstepentry}[1]{}%
5285     \renewcommand*{\glseentrycounterlabel}{}%
5286     \renewcommand*{\glseentryitem}[1]{\glsresetsubentrycounter}%
5287   \fi
5288 }
```

The `subentrycounter` key is the same as the package option but localised to the current glossary. Note that this doesn't affect the master/slave counter attributes, which occurs if `subentrycounter` and `entrycounter` package options are set to true.

```
5289 \define@choicekey{printgloss}{subentrycounter}{true,false}[true]{%
5290   \csuse{glssubentrycounter#1}%
5291   \ifglssubentrycounter
5292     \ifundefined\c@glossarysubentry
5293     {%
5294       \ifglseentrycounter
5295         \newcounter{glossarysubentry}[glossaryentry]%
```

```

5296     \else
5297         \newcounter{glossarysubentry}
5298     \fi
5299 }{%
5300 \renewcommand*{\glsstepsubentry}[1]{%
5301     \edef\currentglssubentry{\glsdetoklabel{##1}}%
5302     \refstepcounter{glossarysubentry}%
5303     \label{glsentry-\currentglssubentry}%
5304 }%
5305 \renewcommand*{\glsresetsubentrycounter}{%
5306     \setcounter{glossarysubentry}{0}%
5307 }%
5308 \renewcommand*{\glssubentryitem}[1]{%
5309     \glsstepsubentry{##1}\glssubentrycounterlabel
5310 }%
5311 \renewcommand*{\glssubentrycounterlabel}{\theglossarysubentry}\space}%
5312 \def\theHglossarysubentry{\currentglssubentry.\theglossarysubentry}
5313 \else
5314     \renewcommand*{\glssubentryitem}[1]{%
5315     \renewcommand*{\glsstepsubentry}[1]{%
5316     \renewcommand*{\glsresetsubentrycounter}{%
5317     \renewcommand*{\glssubentrycounterlabel}{%
5318 \fi
5319 }

```

The `nonumberlist` key determines if this glossary should have a number list.

```

5320 \define@boolkey{printgloss}{gls}{nonumberlist}[true]{%
5321 \ifglsnonumberlist
5322     \def\glossaryentrynumbers##1{}%
5323 \else
5324     \def\glossaryentrynumbers##1{##1}%
5325 \fi}

```

The `sort` key sets the glossary sort handler (`\printnoidxglossary` only).

```
5326 \define@key{printgloss}{sort}{\@glo@assign@sortkey{#1}}
```

`@no@assign@sortkey` Issue error if used with `\printglossary`

```

5327 \newcommand*{\@glo@no@assign@sortkey}[1]{%
5328     \PackageError{glossaries}{`sort' key not permitted with
5329     \string\printglossary}%
5330     {The `sort' key may only be used with \string\printnoidxglossary}%
5331 }

```

`@glo@assign@sortkey` For use with `\printnoidxglossary`

```

5332 \newcommand*{\@glo@assign@sortkey}[1]{%
5333     \def\@glo@sorttype{#1}%
5334 }

```

`\glsnonextpages` Suppresses the next number list only. Global assignments required as it may not occur in the same level of grouping as the next numberlist. (For example, if

\glsnonextpages is place in the entry's description and 3 column tabular style glossary is used.) \org@glossaryentrynumbers needs to be set at the start of each glossary, in the event that \glossaryentrynumber is redefined.

```
5335 \newcommand*{\@glsnonextpages}{%
5336   \gdef\glossaryentrynumbers##1{%
5337     \glsresetentrylist
5338   }%
5339 }
```

\@glsnextpages Activate the next number list only. Global assignments required as it may not occur in the same level of grouping as the next numberlist. (For example, if \glsnextpages is place in the entry's description and 3 column tabular style glossary is used.) \org@glossaryentrynumbers needs to be set at the start of each glossary, in the event that \glossaryentrynumber is redefined.

```
5340 \newcommand*{\@glsnextpages}{%
5341   \gdef\glossaryentrynumbers##1{%
5342     ##1\glsresetentrylist}}
```

\glsresetentrylist Resets \glossaryentrynumbers

```
5343 \newcommand*{\glsresetentrylist}{%
5344   \global\let\glossaryentrynumbers\org@glossaryentrynumbers}
```

\glsnonextpages Outside of \printglossary this does nothing.

```
5345 \newcommand*{\glsnonextpages}{}%
```

\glsnextpages Outside of \printglossary this does nothing.

```
5346 \newcommand*{\glsnextpages}{}%
```

glossaryentry If the entrycounter package option has been used, define a counter to number each level 0 entry.

```
5347 \ifglsentrycounter
5348   \ifx\@gls@counterwithin\@empty
5349     \newcounter{glossaryentry}
5350   \else
5351     \newcounter{glossaryentry}[\@gls@counterwithin]
5352   \fi
5353   \def\theHglossaryentry{\currentglossary.\theglossaryentry}
5354 \fi
```

glossarysubentry If the subentrycounter package option has been used, define a counter to number each level 1 entry.

```
5355 \ifglssubentrycounter
5356   \ifglsentrycounter
5357     \newcounter{glossarysubentry}[glossaryentry]
5358   \else
5359     \newcounter{glossarysubentry}
5360   \fi
```

```
5361 \def\theHglossarysubentry{\currentglssubentry.\theglossarysubentry}
5362 \fi
```

`\resetsubentrycounter` Resets the `glossarysubentry` counter.

```
5363 \ifglssubentrycounter
5364 \newcommand*{\glsresetsubentrycounter}{%
5365 \setcounter{glossarysubentry}{0}%
5366 }
5367 \else
5368 \newcommand*{\glsresetsubentrycounter}{}
5369 \fi
```

`\resetsubentrycounter` Resets the `glossareentry` counter.

```
5370 \ifglsentrycounter
5371 \newcommand*{\glsresetentrycounter}{%
5372 \setcounter{glossareentry}{0}%
5373 }
5374 \else
5375 \newcommand*{\glsresetentrycounter}{}
5376 \fi
```

`\glsstepentry` Advance the `glossareentry` counter if in use. The argument is the label associated with the entry.

```
5377 \ifglsentrycounter
5378 \newcommand*{\glsstepentry}[1]{%
5379 \refstepcounter{glossareentry}%
5380 \label{glsentry-\glsdetoklabel{#1}}%
5381 }
5382 \else
5383 \newcommand*{\glsstepentry}[1]{}
5384 \fi
```

`\glsstepsubentry` Advance the `glossarysubentry` counter if in use. The argument is the label associated with the subentry.

```
5385 \ifglssubentrycounter
5386 \newcommand*{\glsstepsubentry}[1]{%
5387 \edef\currentglssubentry{\glsdetoklabel{#1}}%
5388 \refstepcounter{glossarysubentry}%
5389 \label{glsentry-\currentglssubentry}%
5390 }
5391 \else
5392 \newcommand*{\glsstepsubentry}[1]{}
5393 \fi
```

`\glsrefentry` Reference the entry or sub-entry counter if in use, otherwise just do `\gls`.

```
5394 \ifglsentrycounter
5395 \newcommand*{\glsrefentry}[1]{\ref{glsentry-\glsdetoklabel{#1}}}
5396 \else
```

```

5397 \ifglssubentrycounter
5398   \newcommand*{\glsrefentry}[1]{\ref{glsentry-\glsdetoklabel{#1}}}
5399 \else
5400   \newcommand*{\glsrefentry}[1]{\gls{#1}}
5401 \fi
5402 \fi

```

`\lsentrycounterlabel` Defines how to display the glossaryentry counter.

```

5403 \ifglsentrycounter
5404   \newcommand*{\glsentrycounterlabel}{\theglossaryentry.\space}
5405 \else
5406   \newcommand*{\glsentrycounterlabel}{}%
5407 \fi

```

`\ubentrycounterlabel` Defines how to display the glossarysubentry counter.

```

5408 \ifglssubentrycounter
5409   \newcommand*{\glssubentrycounterlabel}{\theglossarysubentry)\space}
5410 \else
5411   \newcommand*{\glssubentrycounterlabel}{}%
5412 \fi

```

`\glsentryitem` Step and display glossaryentry counter, if appropriate.

```

5413 \ifglsentrycounter
5414   \newcommand*{\glsentryitem}[1]{%
5415     \glsstepentry{#1}\glsentrycounterlabel
5416   }%
5417 \else
5418   \newcommand*{\glsentryitem}[1]{\glsresetsubentrycounter}%
5419 \fi

```

`\glssubentryitem` Step and display glossarysubentry counter, if appropriate.

```

5420 \ifglssubentrycounter
5421   \newcommand*{\glssubentryitem}[1]{%
5422     \glsstepsubentry{#1}\glssubentrycounterlabel
5423   }%
5424 \else
5425   \newcommand*{\glssubentryitem}[1]{}%
5426 \fi

```

`\theglossary` If the `\theglossary` environment has already been defined, a warning will be issued. This environment should be redefined by glossary styles.

```

5427 \ifcsundef{\theglossary}%
5428 {%
5429   \newenvironment{\theglossary}{}{}%
5430 }%
5431 {%
5432   \gls@warnonthe glossdefined
5433   \renewenvironment{\theglossary}{}{}%
5434 }

```

The glossary header is given by `\glossaryheader`. This forms part of the glossary style, and must indicate what should appear immediately after the start of the `theglossary` environment. (For example, if the glossary uses a tabular-like environment, it may be used to set the header row.) Note that if you don't want a header row, the glossary style must redefine `\glossaryheader` to do nothing.

```
\glossaryheader
5435 \newcommand*{\glossaryheader}{}%
```

```
\glstarget \glstarget{\label}{\name}
```

Provide user interface to `\@glstarget` to make it easier to modify the glossary style in the document.

```
5436 \newcommand*{\glstarget}[2]{\@glstarget{\glolinkprefix#1}{#2}}
```

As from version 3.08, glossary information is now written to the external files using `\glossentry` and `\subglossentry` instead of `\glossaryentryfield` and `\glossarysubentryfield`. The default definition provides backward compatibility for glossary styles that use the old forms.

```
compatibleglossentry \glossentry{\label}{\page-list}
```

```
5437 \providecommand*{\compatibleglossentry}[2]{%
5438   \toks@{\#2}%
5439   \protected@edef\@do@glossentry{\noexpand\glossaryentryfield{\#1}%
5440     {\noexpand\glsnamefont
5441       {\expandafter\expandonce\csname glo@\#1@name\endcsname}}%
5442     {\expandafter\expandonce\csname glo@\#1@desc\endcsname}}%
5443     {\expandafter\expandonce\csname glo@\#1@symbol\endcsname}}%
5444     {\the\toks@}%
5445 }%
5446 \@do@glossentry
5447 }
```

```
\glossentryname
5448 \newcommand*{\glossentryname}[1]{%
5449   \glsdoifexistsorwarn{\#1}%
5450   {%
5451     \letcs{\glo@name}{\glsdetoklabel{\#1}@name}%
5452     \expandafter\glsnamefont\expandafter{\glo@name}%
5453   }%
5454 }
```

```
\Glossentryname
5455 \newcommand*{\Glossentryname}[1]{%
```

```

5456 \glsdoifexistsorwarn{#1}%
5457 {%
5458   \glsnamefont{\Glsentryname{#1}}%
5459 }%
5460 }

```

```

\glossentrydesc
5461 \newcommand*{\glossentrydesc}[1]{%
5462   \glsdoifexistsorwarn{#1}%
5463   {%
5464     \glsentrydesc{#1}%
5465   }%
5466 }

```

```

\Glossentrydesc
5467 \newcommand*{\Glossentrydesc}[1]{%
5468   \glsdoifexistsorwarn{#1}%
5469   {%
5470     \Glsentrydesc{#1}%
5471   }%
5472 }

```

```

\glossentrysymbol
5473 \newcommand*{\glossentrysymbol}[1]{%
5474   \glsdoifexistsorwarn{#1}%
5475   {%
5476     \glsentrysymbol{#1}%
5477   }%
5478 }

```

```

\Glossentrysymbol
5479 \newcommand*{\Glossentrysymbol}[1]{%
5480   \glsdoifexistsorwarn{#1}%
5481   {%
5482     \Glsentrysymbol{#1}%
5483   }%
5484 }

```

patible subglossentry \subglossentry{\<level>}{\<label>}{\<page-list>}

```

5485 \providecommand*{\compatiblesubglossentry}[3]{%
5486   \toks@{\#3}%
5487   \protected@edef\@do@subglossentry{\noexpand\glossarysubentryfield{\number#1}%
5488   {\#2}%
5489   {\noexpand\glsnamefont
5490     {\expandafter\expandonce\csname glo@#2@name\endcsname}}%
5491   {\expandafter\expandonce\csname glo@#2@desc\endcsname}}%

```

```

5492     {\expandafter\expandonce\csname glo@#2@symbol\endcsname}%
5493     {\the\toks@}%
5494   }%
5495   \do@subglossentry
5496 }

```

sentrycompatibility

```

5497 \newcommand*{\setglossentrycompatibility}{%
5498   \let\glossentry\compatibleglossentry
5499   \let\subglossentry\compatiblesubglossentry
5500 }
5501 \setglossentrycompatibility

```

\glossaryentryfield

```
\glossaryentryfield{\label}{\name}{\description}{\symbol}{\page-list}
```

This command formerly governed how each entry row should be formatted in the glossary. Now deprecated.

```

5502 \newcommand{\glossaryentryfield}[5]{%
5503   \GlossariesWarning
5504   {Deprecated use of \string\glossaryentryfield.^^J
5505   I recommend you change to \string\glossentry.^^J
5506   If you've just upgraded, try removing your gls auxiliary
5507   files^^J and recompile}%
5508   \noindent\textbf{\glstarget{\#1}{\#2}} #4 #3. #5\par}

```

\glossarysubentryfield

```
\glossarysubentryfield{\level}{\label}{\name}{\description}{\symbol}{\page-list}
```

This command governs how each subentry should be formatted in the glossary. Glossary styles need to redefine this command. Most of the predefined styles ignore `\symbol`. The first argument is a number indicating the level. (The level should be greater than or equal to 1.)

```

5509 \newcommand*{\glossarysubentryfield}[6]{%
5510   \GlossariesWarning
5511   {Deprecated use of \string\glossarysubentryfield.^^J
5512   I recommend you change to \string\subglossentry.^^J
5513   If you've just upgraded, try removing your gls auxiliary
5514   files^^J and recompile}%
5515   \glstarget{\#2}{\strut}\#4. #6\par}

```

Within each glossary, the entries form distinct groups which are determined by the first character of the sort key. When using `makeindex`, there will be a maximum of 28 groups: symbols, numbers, and the 26 alphabetical groups A, ..., Z. If you use `xindy` the groups will depend on whatever alphabet is

used. This is determined by the language or custom alphabets can be created in the `xindy` style file. The command `\glsgroupskip` specifies what to do between glossary groups. Glossary styles must redefine this command. (Note that `\glsgroupskip` only occurs between groups, not at the start or end of the glossary.)

```
\glsgroupskip  
5516 \newcommand*{\glsgroupskip}{}{}
```

Each of the 28 glossary groups described above is preceded by a group heading. This is formatted by the command `\glsgroupheading` which takes one argument which is the *label* assigned to that group (not the title). The corresponding labels are: `glssymbols`, `glsnumbers`, `A`, ..., `Z`. Glossary styles must redefine this command. (In between groups, `\glsgroupheading` comes immediately after `\glsgroupskip`.)

```
\glsgroupheading  
5517 \newcommand*{\glsgroupheading}[1]{}{}
```

It is possible to “trick” `makeindex` into treating entries as though they belong to the same group, even if the terms don’t start with the same letter, by modifying the sort key. For example, all entries belonging to one group could be defined so that the sort key starts with an `a`, while entries belonging to another group could be defined so that the sort key starts with a `b`, and so on. If you want each group to have a heading, you would then need to modify the translation control sequences `\glsgrouptitle` and `\glsgrouplabel` so that the label is translated into the required title (and vice-versa).

`\glsgrouptitle{\langle label \rangle}`

This command produces the title for the glossary group whose label is given by `\langle label \rangle`. By default, the group labelled `glssymbols` produces `\glssymbolsgroupname`, the group labelled `glsnumbers` produces `\glsnumbersgroupname` and all the other groups simply produce their label. As mentioned above, the group labels are: `glssymbols`, `glsnumbers`, `A`, ..., `Z`. If you want to redefine the group titles, you will need to redefine this command. Languages other than English may produce labels that are non-expandable, so we need to check for that otherwise it will create a “missing `\endcsname` inserted” error.

```
\glsgrouptitle  
5518 \newcommand*{\glsgrouptitle}[1]{%  
5519   \gls@getgrouptitle{\#1}{\gls@grptitle}}%  
5520   \gls@grptitle  
5521 }
```

`\gls@getgrouptitle` Gets the group title specified by the label (first argument) and stores in the second argument, which must be a control sequence.

```

5522 \newcommand*{\@gls@getgrouptitle}[2]{%
  Even if the argument appears to be a single letter, it won't be considered a single
  letter by \dtl@ifsingle if it's an active character.
5523   \dtl@ifsingle{#1}%
5524   {%
5525     \ifcsundef{#1groupname}{\def#2{#1}}{\letcs#2{#1groupname}}%
5526   }%
5527   {%
5528     \ifboolexpr{test{\ifstreq{#1}{glssymbols}}%
5529                 \or test{\ifstreq{#1}{glsnumbers}}}%
5530     {%
5531       \ifcsundef{#1groupname}{\def#2{#1}}{\letcs#2{#1groupname}}%
5532     }%
5533     {%
5534       \def#2{#1}%
5535     }%
5536   }%
5537 }

```

`@getothergrouptitle` Version for the no-indexing app option:

```

5538 \newcommand*{\@gls@noidx@getgrouptitle}[2]{%
5539   \DTLifint{#1}%
5540   {\edef#2{\char#1\relax}}%
5541   {%
5542     \ifcsundef{#1groupname}{\def#2{#1}}{\letcs#2{#1groupname}}%
5543   }%
5544 }

```

`\glsgetgrouplabel{\<title>}`

This command does the reverse to the previous command. The argument is the group title, and it produces the group label. Note that if you redefine `\glsgetgrouptitle`, you will also need to redefine `\glsgetgrouplabel`.

`\glsgetgrouplabel`

```

5545 \newcommand*{\glsgetgrouplabel}[1]{%
5546 \ifthenelse{\equal{#1}{\glssymbolsgroupname}}{\glssymbols}{%
5547 \ifthenelse{\equal{#1}{\glsnumbersgroupname}}{\glsnumbers}{#1}}

```

The command `\setentrycounter` sets the entry's associated counter (required by `\glshypernumber` etc.) `\glslink` and `\glsadd` encode the `\glossary` argument so that the relevant counter is set prior to the formatting command.

`\setentrycounter`

```

5548 \newcommand*{\setentrycounter}[2][]{%
5549   \def\@glo@counterprefix{#1}%
5550   \ifx\@glo@counterprefix\empty

```

```

5551     \def\@glo@counterprefix{.}%
5552 \else
5553     \def\@glo@counterprefix{.#1}%
5554 \fi
5555 \def\glsentrycounter{#2}%
5556 }

```

The current glossary style can be set using `\setglossarystyle{<style>}`.

`\setglossarystyle`

```

5557 \newcommand*{\setglossarystyle}[1]{%
5558   \ifcsundef{@glsstyle@#1}%
5559   {%
5560     \PackageError{glossaries}{Glossary style ‘#1’ undefined}{}%
5561   }%
5562   {%
5563     \csname @glsstyle@#1\endcsname
5564   }%
5565 }

```

`\glossarystyle`

```

5566 \newcommand*{\glossarystyle}[1]{%
5567   \ifcsundef{@glsstyle@#1}%
5568   {%
5569     \PackageError{glossaries}{Glossary style ‘#1’ undefined}{}%
5570   }%
5571   {%
5572     \GlossariesWarning
5573     {Deprecated command \string\glossarystyle.^^J
5574      I recommend you switch to \string\setglossarystyle\space unless
5575      you want to maintain backward compatibility}%
5576     \setglossentrycompatibility
5577     \csname @glsstyle@#1\endcsname
5578   \ifcsdef{@glscompstyle@#1}%
5579     {\setglossentrycompatibility\csuse{@glscompstyle@#1}}%
5580   {}%
5581 }%
5582 }

```

`\newglossarystyle` New glossary styles can be defined using:

```
\newglossarystyle{<name>}{<definition>}
```

The `<definition>` argument should redefine `\glossary`, `\glossaryheader`, `\glossgroupheading`, `\glossaryentryfield` and `\glossgroupskip` (see [subsection 1.18](#) for the definitions of predefined styles). Glossary styles should not redefine `\glossarypreamble` and `\glossarypostamble`, as the user should be able to switch between styles without affecting the pre- and postambles.

```

5583 \newcommand{\newglossarystyle}[2]{%
5584   \ifcsundef{glsstyle@#1}{%
5585     {%
5586       \expandafter\def\csname glsstyle@#1\endcsname{#2}{%
5587     }%
5588     {%
5589       \PackageError{glossaries}{Glossary style '#1' is already defined}{}%
5590     }%
5591   }%

```

\renewglossarystyle Code for this macro supplied by Marco Daniel.

```

5592 \newcommand{\renewglossarystyle}[2]{%
5593   \ifcsundef{glsstyle@#1}{%
5594     {%
5595       \PackageError{glossaries}{Glossary style '#1' isn't already defined}{}%
5596     }%
5597     {%
5598       \csdef{glsstyle@#1}{#2}{%
5599     }%
5600   }%

```

Glossary entries are encoded so that the second argument to \glossaryentryfield is always specified as \glsnamefont{\textit{name}}. This allows the user to change the font used to display the name term without having to redefine \glossaryentryfield. The default uses the surrounding font, so in the list type styles (which place the name in the optional argument to \item) the name will appear in bold.

\glsnamefont

```
5601 \newcommand*\glsnamefont[1]{#1}
```

Each glossary entry has an associated number list (usually page numbers) that indicate where in the document the entry has been used. The format for these number lists can be changed using the format key in commands like \glslink. The default format is given by \glshypernumber. This takes a single argument which may be a single number, a number range or a number list. The number ranges are delimited with \delimR, the number lists are delimited with \delimN.

If the document doesn't have hyperlinks, the numbers can be displayed just as they are, but if the document supports hyperlinks, the numbers should link to the relevant location. This means extracting the individual numbers from the list or ranges. The package does this with the \hyperpage command, but this is encoded for comma and dash delimiters and only for the page counter, but this code needs to be more general. So I have adapted the code used in the package.

\glshypernumber

```
5602 \ifcsundef{hyperlink}{%
```

```

5603 {%
5604   \def\glshypernumber#1{#1}%
5605 }%
5606 {%
5607   \def\glshypernumber#1{\@glshypernumber#1\nohyperpage{}\@nil}%
5608 }

```

\@glshypernumber This code was provided by Heiko Oberdiek to allow material to be attached to the location.

```

5609 \def\@glshypernumber#1\nohyperpage#2#3\@nil{%
5610   \ifx\#1\%
5611   \else
5612     \@delimR#1\delimR\delimR\%
5613   \fi
5614   \ifx\#2\%
5615   \else
5616     #2%
5617   \fi
5618   \ifx\#3\%
5619   \else
5620     \@glshypernumber#3\@nil
5621   \fi
5622 }

```

\@delimR displays a range of numbers for the counter whose name is given by \@gls@counter (which must be set prior to using \glshypernumber).

\@delimR

```

5623 \def\@delimR#1\delimR #2\delimR #3\{%
5624 \ifx\#2\%
5625   \@delimN{#1}%
5626 \else
5627   \@gls@numberlink{#1}\delimR\@gls@numberlink{#2}%
5628 \fi}

```

\@delimN displays a list of individual numbers, instead of a range:

\@delimN

```

5629 \def\@delimN#1{\@@delimN#1\delimN \delimN\}%
5630 \def\@@delimN#1\delimN #2\delimN#3\{%
5631 \ifx\#3\%
5632   \@gls@numberlink{#1}%
5633 \else
5634   \@gls@numberlink{#1}\delimN\@gls@numberlink{#2}%
5635 \fi
5636 }

```

The following code is modified from hyperref's \HyInd@pagelink where the name of the counter being used is given by \@gls@counter.

```

5637 \def\@gls@numberlink#1{%
5638 \begingroup
5639 \toks@={}%
5640 \@gls@removespaces#1 \@nil
5641 \endgroup}

5642 \def\@gls@removespaces#1 #2\@nil{%
5643 \toks@=\expandafter{\the\toks@#1}%
5644 \ifx\#2\%
5645 \edef\x{\the\toks@}%
5646 \ifx\x\empty
5647 \else

5648 \hyperlink{\glshypernumber{\glo@counterprefix\the\toks@}}%
5649 {\the\toks@}%
5650 \fi
5651 \else
5652 \@gls@ReturnAfterFi{%
5653 \@gls@removespaces#2\@nil
5654 }%
5655 \fi
5656 }
5657 \long\def\@gls@ReturnAfterFi#1\fi{\fi#1}

```

The following commands will switch to the appropriate font, and create a hyperlink, if hyperlinks are supported. If hyperlinks are not supported, they will just display their argument in the appropriate font.

```

\hyperrm
5658 \newcommand*{\hyperrm}[1]{\textrm{\glshypernumber{#1}}}

\hypersf
5659 \newcommand*{\hypersf}[1]{\textsf{\glshypernumber{#1}}}

\hypertt
5660 \newcommand*{\hypertt}[1]{\texttt{\glshypernumber{#1}}}

\hyperbf
5661 \newcommand*{\hyperbf}[1]{\textbf{\glshypernumber{#1}}}

\hypermd
5662 \newcommand*{\hypermd}[1]{\textmd{\glshypernumber{#1}}}

\hyperit
5663 \newcommand*{\hyperit}[1]{\textit{\glshypernumber{#1}}}

\hypersl
5664 \newcommand*{\hypersl}[1]{\textsl{\glshypernumber{#1}}}

```

```

\hyperup
5665 \newcommand*{\hyperup}[1]{\textup{\glshypernumber{#1}}}

\hypersc
5666 \newcommand*{\hypersc}[1]{\textsc{\glshypernumber{#1}}}

\hyperemph
5667 \newcommand*{\hyperemph}[1]{\emph{\glshypernumber{#1}}}

```

1.16 Acronyms

```
\oldacronym [⟨label⟩] {⟨abbr⟩} {⟨long⟩} {⟨key-val list⟩}
```

This emulates the way the old package defined acronyms. It is equivalent to `\newacronym[⟨key-val list⟩] {⟨label⟩} {⟨abbr⟩} {⟨long⟩}` and it additionally defines the command `\⟨label⟩` which is equivalent to `\gls{⟨label⟩}` (thus `⟨label⟩` must only contain alphabetical characters). If `⟨label⟩` is omitted, `⟨abbr⟩` is used. This only emulates the syntax of the old package. The way the acronyms appear in the list of acronyms is determined by the definition of `\newacronym` and the glossary style.

Note that `\⟨label⟩` can't have an optional argument if the package is loaded. If hasn't been loaded then you can do `\⟨label⟩[⟨insert⟩]` but you can't do `\⟨label⟩[⟨key-val list⟩]`. For example if you define the acronym `svm`, then you can do `\svm['s]` but you can't do `\svm[format=textbf]`. If the package is loaded, `\svm['s]` will appear as `svm ['s]` which is unlikely to be the desired result. In this case, you will need to use `\gls` explicitly, e.g. `\gls{svm}['s]`. Note that it is up to the user to load if desired.

```

5668 \newcommand{\oldacronym}[4]{\gls@label}{%
5669   \def\gls@label{\#2}{%
5670     \newacronym[\#4]{\#1}{\#2}{\#3}{%
5671       \ifcsundef{xspace}{%
5672         {}{%
5673           \expandafter\edef\csname#1\endcsname{%
5674             \noexpand\@ifstar{\noexpand\Gls{\#1}}{\noexpand\gls{\#1}}{%
5675           }{%
5676         }{%
5677         {}{%
5678           \expandafter\edef\csname#1\endcsname{%
5679             \noexpand\@ifstar{\noexpand\Gls{\#1}\noexpand\xspace}{%
5680               \noexpand\gls{\#1}\noexpand\xspace}{%
5681             }{%
5682           }{%
5683         }{%

```

```
\newacronym[⟨key-val list⟩] {⟨label⟩} {⟨abbrev⟩} {⟨long⟩}
```

This is a quick way of defining acronyms, using `\newglossaryentry` with the appropriate values. It sets the glossary type to `\acronymtype` which will be `\acronym` if the package option `acronym` has been used, otherwise it will be the default glossary. Since `\newacronym` merely calls `\newglossaryentry`, the acronym is treated like any other glossary entry.

If you prefer a different format, you can redefine `\newacronym` as required. The optional argument can be used to override any of the settings.

This is just a stub. It's redefined by commands like `\SetDefaultAcronymStyle`.

```
\newacronym  
5684 \newcommand{\newacronym}[4] [] {}
```

Set up some convenient short cuts. These need to be changed if `\newacronym` is changed (or if the description key is changed).

`\acrpluralsuffix` Plural suffix used by `\newacronym`. This just defaults to `\glspluralsuffix` but is changed to include `\textup` if the `smallcaps` option is used, so that the suffix doesn't appear in small caps as it doesn't look right. For example, ABCS looks as though the "s" is part of the acronym, but ABCs looks as though the "s" is a plural suffix. Since the entire text abcs is set in `\textsc`, `\textup` is needed to cancel it out.

```
5685 \newcommand*\acrpluralsuffix{\glspluralsuffix}
```

If `garamondx` has been loaded, need to use `\textulc` instead of `\textup`.

```
\glstextup  
5686 \newrobustcmd*\glstextup[1]{\ifdef\textulc{\textulc{#1}}{\textup{#1}}}
```

The following are defined for compatibility with version 2.07 and earlier.

```
\glsshortkey  
5687 \newcommand*\glsshortkey{short}
```

```
\glsshortpluralkey  
5688 \newcommand*\glsshortpluralkey{shortplural}
```

```
\glslongkey  
5689 \newcommand*\glslongkey{long}
```

```
\glslongpluralkey  
5690 \newcommand*\glslongpluralkey{longplural}
```

`\acrfull` Full form of the acronym.

```
5691 \newrobustcmd*\acrfull{\@gls@hyp@opt\ns@acrfull}  
5692 \newcommand*\ns@acrfull[2] [] {  
5693 \new@ifnextchar[\{@acrfull{#1}{#2}\}%  
5694 {\@acrfull{#1}{#2}[]}%  
5695 }
```

\@acrfull Low-level macro:

```
5696 \def\@acrfull#1#2[#3]{%
```

 Make it easier for acronym styles to change this:

```
5697 \acrfullfmt{#1}{#2}{#3}%
5698 }
```

Using \acrlinkfullformat and \acrfullformat is now deprecated as it can cause complications with the first letter upper case variants, but the package needs to provide backward compatibility support.

\acrfullfmt No case change full format.

```
5699 \newcommand*\acrfullfmt}[3]{%
5700 \acrlinkfullformat{\@acrlong}{\@acrshort}{#1}{#2}{#3}%
5701 }
```

\acrlinkfullformat Format for full links like \acrfull. Syntax: \acrlinkfullformat{\<long cs>}{\<short cs>}{\<options>}{\<label>}{\<insert>}

```
5702 \newcommand{\acrlinkfullformat}[5]{%
5703 \acrfullformat{#1{#3}{#4}{#5}}{#2{#3}{#4}{#5}}%
5704 }
```

\acrfullformat Default full form is \<long> (\<short>).

```
5705 \newcommand{\acrfullformat}[2]{#1\glsspace(#2)}
```

\glsspace Robust space to ensure it's written to the .glsdefs file.

```
5706 \newrobustcmd{\glsspace}{\space}
```

Default format for full acronym

\Acrfull

```
5707 \newrobustcmd*\Acrfull{\@gls@hyp@opt\ns@Acrfull}
5708 \newcommand*\ns@Acrfull[2][]{%
5709 \new@ifnextchar[\{\@Acrfull{#1}{#2}\}%
5710 \{\@Acrfull{#1}{#2}[]\}%
5711 }
```

Low-level macro:

```
5712 \def\@Acrfull#1#2[#3]{%
```

 Make it easier for acronym styles to change this:

```
5713 \Acrfullfmt{#1}{#2}{#3}%
5714 }
```

\Acrfullfmt First letter upper case full format.

```
5715 \newcommand*\Acrfullfmt}[3]{%
5716 \acrlinkfullformat{\@Acrlong}{\@acrshort}{#1}{#2}{#3}%
5717 }
```

```
\ACRfull
5718 \newrobustcmd*{\ACRfull}{\gls@hyp@opt\ns@ACRfull}
5719 \newcommand*{\ns@ACRfull}[2][]{%
5720   \new@ifnextchar[{\ns@ACRfull{#1}{#2}}{%
5721     {\ns@ACRfull{#1}{#2}[]}}%
5722 }
```

Low-level macro:

```
5723 \def\@ACRfull#1#2[#3]{%
```

Make it easier for acronym styles to change this:

```
5724   \ACRfullfmt{#1}{#2}{#3}%
5725 }
```

`\ACRfullfmt` All upper case full format.

```
5726 \newcommand*{\ACRfullfmt}[3]{%
5727   \acrlinkfullformat{\@ACRlong}{\@ACRshort}{#1}{#2}{#3}%
5728 }
```

Plural:

`\acrfullpl`

```
5729 \newrobustcmd*{\acrfullpl}{\gls@hyp@opt\ns@acrfullpl}
5730 \newcommand*{\ns@acrfullpl}[2][]{%
5731   \new@ifnextchar[{\ns@acrfullpl{#1}{#2}}{%
5732     {\ns@acrfullpl{#1}{#2}[]}}%
5733 }
```

Low-level macro:

```
5734 \def\@acrfullpl#1#2[#3]{%
```

Make it easier for acronym styles to change this:

```
5735   \acrfullplfmt{#1}{#2}{#3}%
5736 }
```

`\acrfullplfmt` No case change plural full format.

```
5737 \newcommand*{\acrfullplfmt}[3]{%
5738   \acrlinkfullformat{\@acrlongpl}{\@acrshortpl}{#1}{#2}{#3}%
5739 }
```

`\Acrfullpl`

```
5740 \newrobustcmd*{\Acrfullpl}{\gls@hyp@opt\ns@Acrfullpl}
5741 \newcommand*{\ns@Acrfullpl}[2][]{%
5742   \new@ifnextchar[{\ns@Acrfullpl{#1}{#2}}{%
5743     {\ns@Acrfullpl{#1}{#2}[]}}%
5744 }
```

Low-level macro:

```
5745 \def\@Acrfullpl#1#2[#3]{%
```

Make it easier for acronym styles to change this:

```
5746   \Acrfullplfmt{#1}{#2}{#3}%
5747 }
```

\Acrfullplfmt First letter upper case plural full format.

```
5748 \newcommand*\Acrfullplfmt[3]{%
5749   \acrlinkfullformat{\@Acrlongpl}{\acrshortpl}{#1}{#2}{#3}%
5750 }
```

\ACRfullpl

```
5751 \newrobustcmd*\ACRfullpl{\gls@hyp@opt\ns@ACRfullpl}
5752 \newcommand*\ns@ACRfullpl[2][]{%
5753   \new@ifnextchar[\{@ACRfullpl{#1}{#2}\}%
5754     {\@ACRfullpl{#1}{#2}[]}\}%
5755 }
```

Low-level macro:

```
5756 \def\@ACRfullpl#1#2[#3]{%
```

Make it easier for acronym styles to change this:

```
5757   \ACRfullplfmt{#1}{#2}{#3}%
5758 }
```

\ACRfullplfmt All upper case plural full format.

```
5759 \newcommand*\ACRfullplfmt[3]{%
5760   \acrlinkfullformat{\@ACRlongpl}{\@ACRshortpl}{#1}{#2}{#3}%
5761 }
```

1.17 Predefined acronym styles

\acronymfont This is only used with the additional acronym styles:

```
5762 \newcommand{\acronymfont}[1]{#1}
```

\firstacronymfont This is only used with the additional acronym styles:

```
5763 \newcommand{\firstacronymfont}[1]{\acronymfont{#1}}
```

\acrnameformat The styles that allow an additional description use \acrnameformat{<short>}{<long>} to determine what information is displayed in the name.

```
5764 \newcommand*\acrnameformat[2]{\acronymfont{#1}}
```

Define some tokens used by \newacronym:

\glskeylisttok

```
5765 \newtoks\glskeylisttok
```

```

\glslabeltok
5766 \newtoks\glslabeltok

\glsshorttok
5767 \newtoks\glsshorttok

\glslongtok
5768 \newtoks\glslongtok

\newacronymhook Provide a hook for \newacronym:
5769 \newcommand*{\newacronymhook}{}}

\SetGenericNewAcronym New improved version of setting the acronym style.
5770 \newcommand*{\SetGenericNewAcronym}{%
    Change the behaviour of \Glsentryname to workaround expansion issues that
    cause a problem for \makefirstuc
5771 \let\@Gls@entryname\@Gls@acronymname
    Change the way acronyms are defined:
5772 \renewcommand{\newacronym}[4][]{%
5773     \ifempty{\glsacronymlists}{%
5774         {%
5775             \def\@glo@type{\acronymtype}%
5776             \setkeys{glossentry}{##1}%
5777             \DeclareAcronymList{\@glo@type}%
5778         }%
5779     {%
5780         \glskeylisttok{##1}%
5781         \glslabeltok{##2}%
5782         \glsshorttok{##3}%
5783         \glslongtok{##4}%
5784         \newacronymhook
5785         \protected@edef\@do@newglossaryentry{%
5786             \noexpand\newglossaryentry{\the\glslabeltok}%
5787             {%
5788                 type=\acronymtype,%
5789                 name={\expandonce{\acronymentry{##2}}},%
5790                 sort={\acronymsort{\the\glsshorttok}{\the\glslongtok}},%
5791                 text={\the\glsshorttok},%
5792                 short={\the\glsshorttok},%
5793                 shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
5794                 long={\the\glslongtok},%
5795                 longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
5796                 GenericAcronymFields,%
5797                 \the\glskeylisttok
5798             }%
5799         }%
5800         \@do@newglossaryentry
5801     }%
}

```

Make sure that \acrfull etc reflects the new style:

```
5802 \renewcommand*{\acrfullfmt}[3]{%
5803   \glslink[##1]{##2}{\genacrfullformat{##2}{##3}}}%
5804 \renewcommand*{\Acrfullfmt}[3]{%
5805   \glslink[##1]{##2}{\Genacrfullformat{##2}{##3}}}%
5806 \renewcommand*{\ACRfullfmt}[3]{%
5807   \glslink[##1]{##2}{%
5808     \mfirstucMakeUppercase{\genacrfullformat{##2}{##3}}}}%
5809 \renewcommand*{\acrfullplfmt}[3]{%
5810   \glslink[##1]{##2}{\genplacrfullformat{##2}{##3}}}%
5811 \renewcommand*{\Acrfullplfmt}[3]{%
5812   \glslink[##1]{##2}{\Genplacrfullformat{##2}{##3}}}%
5813 \renewcommand*{\ACRfullplfmt}[3]{%
5814   \glslink[##1]{##2}{%
5815     \mfirstucMakeUppercase{\genplacrfullformat{##2}{##3}}}}%
```

Make sure that \glsentryfull etc reflects the new style:

```
5816 \renewcommand*{\glsentryfull}[1]{\genacrfullformat{##1}{}}%
5817 \renewcommand*{\Glsentryfull}[1]{\Genacrfullformat{##1}{}}%
5818 \renewcommand*{\glsentryfullpl}[1]{\genplacrfullformat{##1}{}}%
5819 \renewcommand*{\Glsentryfullpl}[1]{\Genplacrfullformat{##1}{}}%
5820 }
```

`genericAcronymFields` Fields used by \SetGenericNewAcronym that can be changed by the acronym style.

```
5821 \newcommand*{\GenericAcronymFields}{description={\the\glslongtok}}
```

`\acronymentry` `\acronymentry{\langle label \rangle}`

Display style for the name field in the list of acronyms.

```
5822 \newcommand*{\acronymentry}[1]{\acronymfont{\glsentryshort{#1}}}
```

`\acronymsort` `\acronymsort{\langle short \rangle}{\langle long \rangle}`

Default sort format for acronyms.

```
5823 \newcommand*{\acronymsort}[2]{#1}
```

`\setacronymstyle` `\setacronymstyle{\langle style name \rangle}`

```
5824 \newcommand*{\setacronymstyle}[1]{%
5825   \ifcsundef{@glsacr@disestyle@#1}%
5826   {}%
5827   \PackageError{glossaries}{Undefined acronym style '#1'}{}%
5828 }
```

```

5829  {%
5830    \ifdefempty{\@glsacronymlists}{%
5831      {%
5832        \DeclareAcronymList{\acronymtype}{%
5833      }%
5834    }%
5835    \SetGenericNewAcronym
5836    \GlsUseAcrStyleDefs{#1}{%
5837      \@for\@gls@type:=\@glsacronymlists\do{%
5838        \def\glsentryfmt[\@gls@type]{\GlsUseAcrEntryDispStyle{#1}}{%
5839      }%
5840    }%
5841  }%

```

\newacronymstyle \newacronymstyle{<style name>}{<entry format definition>}{<display definitions>}

Defines a new acronym style called <style name>.

```

5842 \newcommand*{\newacronymstyle}[3]{%
5843   \ifcsdef{@glsacr@dispstyle@#1}{%
5844     {%
5845       \PackageError{glossaries}{Acronym style '#1' already exists}{}{%
5846     }%
5847   }%
5848   \csdef{@glsacr@dispstyle@#1}{#2}{%
5849   \csdef{@glsacr@styledefs@#1}{#3}{%
5850   }%
5851 }%

```

\renewacronymstyle Redefines the given acronym style.

```

5852 \newcommand*{\renewacronymstyle}[3]{%
5853   \ifcsdef{@glsacr@dispstyle@#1}{%
5854     {%
5855       \csdef{@glsacr@dispstyle@#1}{#2}{%
5856       \csdef{@glsacr@styledefs@#1}{#3}{%
5857     }%
5858   }%
5859   \PackageError{glossaries}{Acronym style '#1' doesn't exist}{}{%
5860   }%
5861 }%

```

seAcrEntryDispStyle

```
5862 \newcommand*{\GlsUseAcrEntryDispStyle}[1]{\csuse{@glsacr@dispstyle@#1}}
```

\GlsUseAcrStyleDefs

```
5863 \newcommand*{\GlsUseAcrStyleDefs}[1]{\csuse{@glsacr@styledefs@#1}}
```

Predefined acronym styles:

`long-short <long> (<short>) acronym style.`

```
5864 \newacronymstyle{long-short}%
5865 {%
  Check for long form in case this is a mixed glossary.
5866 \ifglshaslong{\glslabel}{\glsgenacfmt}{\glsgenentryfmt}%
5867 }%
5868 {%
5869 \renewcommand*{\GenericAcronymFields}{description={\the\glslongtok}}%
5870 \renewcommand*{\genacrfullformat}[2]{%
5871   \glsentrylong{##1}##2\space
5872   (\protect\firstacronymfont{\glsentryshort{##1}})%
5873 }%
5874 \renewcommand*{\Genacrfullformat}[2]{%
5875   \Glsentrylong{##1}##2\space
5876   (\protect\firstacronymfont{\glsentryshort{##1}})%
5877 }%
5878 \renewcommand*{\genplacrfullformat}[2]{%
5879   \glsentrylongpl{##1}##2\space
5880   (\protect\firstacronymfont{\glsentryshortpl{##1}})%
5881 }%
5882 \renewcommand*{\Genplacrfullformat}[2]{%
5883   \Glsentrylongpl{##1}##2\space
5884   (\protect\firstacronymfont{\glsentryshortpl{##1}})%
5885 }%
5886 \renewcommand*{\acronymentry}[1]{\acronymfont{\glsentryshort{##1}}}
5887 \renewcommand*{\acronymsort}[2]{##1}%
5888 \renewcommand*{\acronymfont}[1]{##1}%
5889 \renewcommand*{\firstacronymfont}[1]{\acronymfont{##1}}%
5890 \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
5891 }
```

`short-long <short> (<long>) acronym style.`

```
5892 \newacronymstyle{short-long}%
5893 {%
  Check for long form in case this is a mixed glossary.
5894 \ifglshaslong{\glslabel}{\glsgenacfmt}{\glsgenentryfmt}%
5895 }%
5896 {%
5897 \renewcommand*{\GenericAcronymFields}{description={\the\glslongtok}}%
5898 \renewcommand*{\genacrfullformat}[2]{%
5899   \protect\firstacronymfont{\glsentryshort{##1}}}##2\space
5900   (\glsentrylong{##1})%
5901 }%
5902 \renewcommand*{\Genacrfullformat}[2]{%
5903   \protect\firstacronymfont{\Glsentryshort{##1}}}##2\space
5904   (\glsentrylong{##1})%
5905 }%
5906 \renewcommand*{\genplacrfullformat}[2]{%
```

```

5907   \protect\firstracronymfont{\glsentryshortpl{##1}##2\space
5908   (\glsentrylongpl{##1})%
5909 }%
5910 \renewcommand*\Genplacrfullformat[2]{%
5911   \protect\firstracronymfont{\Glsentryshortpl{##1}##2\space
5912   (\glsentrylongpl{##1})%
5913 }%
5914 \renewcommand*\acronymentry[1]{\acronymfont{\glsentryshort{##1}}}%
5915 \renewcommand*\acronymsort[2]{##1}%
5916 \renewcommand*\acronymfont[1]{##1}%
5917 \renewcommand*\firstracronymfont[1]{\acronymfont{##1}}%
5918 \renewcommand*\acrpluralsuffix{\glspluralsuffix}%
5919 }

long-sc-short  <long> (\textsc{<short>}) acronym style.
5920 \newacronymstyle{long-sc-short}%
5921 {%
5922   \GlsUseAcrEntryDispStyle{long-short}%
5923 }%
5924 {%
5925   \GlsUseAcrStyleDefs{long-short}%
5926   \renewcommand{\acronymfont}[1]{\textsc{##1}}%
5927   \renewcommand*\acrpluralsuffix{\glstextup{\glspluralsuffix}}%
5928 }

long-sm-short  <long> (\textsmaller{<short>}) acronym style.
5929 \newacronymstyle{long-sm-short}%
5930 {%
5931   \GlsUseAcrEntryDispStyle{long-short}%
5932 }%
5933 {%
5934   \GlsUseAcrStyleDefs{long-short}%
5935   \renewcommand{\acronymfont}[1]{\textsmaller{##1}}%
5936   \renewcommand*\acrpluralsuffix{\glspluralsuffix}%
5937 }

sc-short-long  <short> (\textsc{<long>}) acronym style.
5938 \newacronymstyle{sc-short-long}%
5939 {%
5940   \GlsUseAcrEntryDispStyle{short-long}%
5941 }%
5942 {%
5943   \GlsUseAcrStyleDefs{short-long}%
5944   \renewcommand{\acronymfont}[1]{\textsc{##1}}%
5945   \renewcommand*\acrpluralsuffix{\glstextup{\glspluralsuffix}}%
5946 }

sm-short-long  <short> (\textsmaller{<long>}) acronym style.

```

```

5947 \newacronymstyle{sm-short-long}%
5948 {%
5949   \GlsUseAcrEntryDispStyle{short-long}%
5950 }%
5951 {%
5952   \GlsUseAcrStyleDefs{short-long}%
5953   \renewcommand{\acronymfont}[1]{\textsmaller{##1}}%
5954   \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
5955 }

```

`long-short-desc` *<long> {<short>}* acronym style that has an accompanying description (which the user needs to supply).

```

5956 \newacronymstyle{long-short-desc}%
5957 {%
5958   \GlsUseAcrEntryDispStyle{long-short}%
5959 }%
5960 {%
5961   \GlsUseAcrStyleDefs{long-short}%
5962   \renewcommand*{\GenericAcronymFields}{}%
5963   \renewcommand*{\acronymsort}[2]{##2}%
5964   \renewcommand*{\acronymentry}[1]{%
5965     \glsentrylong{##1}\space (\acronymfont{\glsentryshort{##1}})}%
5966 }

```

`long-sc-short-desc` *<long> (\textsc{<short>})* acronym style that has an accompanying description (which the user needs to supply).

```

5967 \newacronymstyle{long-sc-short-desc}%
5968 {%
5969   \GlsUseAcrEntryDispStyle{long-sc-short}%
5970 }%
5971 {%
5972   \GlsUseAcrStyleDefs{long-sc-short}%
5973   \renewcommand*{\GenericAcronymFields}{}%
5974   \renewcommand*{\acronymsort}[2]{##2}%
5975   \renewcommand*{\acronymentry}[1]{%
5976     \glsentrylong{##1}\space (\acronymfont{\glsentryshort{##1}})}%
5977 }

```

`long-sm-short-desc` *<long> (\textsmaller{<short>})* acronym style that has an accompanying description (which the user needs to supply).

```

5978 \newacronymstyle{long-sm-short-desc}%
5979 {%
5980   \GlsUseAcrEntryDispStyle{long-sm-short}%
5981 }%
5982 {%
5983   \GlsUseAcrStyleDefs{long-sm-short}%
5984   \renewcommand*{\GenericAcronymFields}{}%
5985   \renewcommand*{\acronymsort}[2]{##2}%
5986   \renewcommand*{\acronymentry}[1]{%

```

```
5987     \glsentrylong{\#\#1}\space (\acronymfont{\glsentryshort{\#\#1}})}%  
5988 }
```

short-long-desc *<short>* (*{<long>}*) acronym style that has an accompanying description (which the user needs to supply).

```
5989 \newacronymstyle{short-long-desc}%=  
5990 {  
5991   \GlsUseAcrEntryDispStyle{short-long}%=  
5992 }%  
5993 {  
5994   \GlsUseAcrStyleDefs{short-long}%=  
5995   \renewcommand*\{\GenericAcronymFields\}{ }%  
5996   \renewcommand*\{\acronymsort\}[2]{\#\#2}%=  
5997   \renewcommand*\{\acronymentry\}[1]{%  
5998     \glsentrylong{\#\#1}\space (\acronymfont{\glsentryshort{\#\#1}})}%  
5999 }
```

sc-short-long-desc *<long>* (*\textsc{<short>}*) acronym style that has an accompanying description (which the user needs to supply).

```
6000 \newacronymstyle{sc-short-long-desc}%=  
6001 {  
6002   \GlsUseAcrEntryDispStyle{sc-short-long}%=  
6003 }%  
6004 {  
6005   \GlsUseAcrStyleDefs{sc-short-long}%=  
6006   \renewcommand*\{\GenericAcronymFields\}{ }%  
6007   \renewcommand*\{\acronymsort\}[2]{\#\#2}%=  
6008   \renewcommand*\{\acronymentry\}[1]{%  
6009     \glsentrylong{\#\#1}\space (\acronymfont{\glsentryshort{\#\#1}})}%  
6010 }
```

sm-short-long-desc *<long>* (*\textsmaller{<short>}*) acronym style that has an accompanying description (which the user needs to supply).

```
6011 \newacronymstyle{sm-short-long-desc}%=  
6012 {  
6013   \GlsUseAcrEntryDispStyle{sm-short-long}%=  
6014 }%  
6015 {  
6016   \GlsUseAcrStyleDefs{sm-short-long}%=  
6017   \renewcommand*\{\GenericAcronymFields\}{ }%  
6018   \renewcommand*\{\acronymsort\}[2]{\#\#2}%=  
6019   \renewcommand*\{\acronymentry\}[1]{%  
6020     \glsentrylong{\#\#1}\space (\acronymfont{\glsentryshort{\#\#1}})}%  
6021 }
```

dua *<long>* only acronym style.

```
6022 \newacronymstyle{dua}%=  
6023 {
```

Check for long form in case this is a mixed glossary.

```
6024 \ifdefempty{glscustomtext}{%
6025 }{%
6026 \ifglshaslong{\glslabel}{%
6027 }{%
6028 \glsifplural{%
6029 }}
```

Plural form:

```
6030 \glscaps{%
6031 }}
```

Plural form, don't adjust case:

```
6032 \glsentrylongpl{\glslabel}\glsinsert{%
6033 }{%
6034 }}
```

Plural form, make first letter upper case:

```
6035 \Glsentrylongpl{\glslabel}\glsinsert{%
6036 }{%
6037 }}
```

Plural form, all caps:

```
6038 \mfirstuc{%
6039 \glsentrylongpl{\glslabel}\glsinsert}{%
6040 }{%
6041 }{%
6042 }}
```

Singular form

```
6043 \glscaps{%
6044 }}
```

Singular form, don't adjust case:

```
6045 \glsentrylong{\glslabel}\glsinsert{%
6046 }{%
6047 }}
```

Subsequent singular form, make first letter upper case:

```
6048 \Glsentrylong{\glslabel}\glsinsert{%
6049 }{%
6050 }}
```

Subsequent singular form, all caps:

```
6051 \mfirstuc{%
6052 \glsentrylong{\glslabel}\glsinsert}{%
6053 }{%
6054 }{%
6055 }{%
6056 }}
```

Not an acronym:

```
6057      \glsgenentryfmt
6058      }%
6059  }%
6060  {\glscustomtext\glsinsert}%
6061 }%
6062 {%
6063 \renewcommand*{\GenericAcronymFields}{description={\the\glslongtok}}%
6064 \renewcommand*{\acrfullfmt}[3]{%
6065   \glslink[##1]{##2}{\glsentrylong{##2}##3\space
6066   (\acronymfont{\glsentryshort{##2}})}}%
6067 \renewcommand*{\Acrfullfmt}[3]{%
6068   \glslink[##1]{##2}{\Glsentrylong{##2}##3\space
6069   (\acronymfont{\glsentryshort{##2}})}}%
6070 \renewcommand*{\ACRfullfmt}[3]{%
6071   \glslink[##1]{##2}{%
6072     \mfirststucMakeUppercase{\glsentrylong{##2}##3\space
6073     (\acronymfont{\glsentryshort{##2}})}}}%
6074 \renewcommand*{\acrfullplfmt}[3]{%
6075   \glslink[##1]{##2}{\glsentrylongpl{##2}##3\space
6076   (\acronymfont{\glsentryshortpl{##2}})}}%
6077 \renewcommand*{\Acrfullplfmt}[3]{%
6078   \glslink[##1]{##2}{\Glsentrylongpl{##2}##3\space
6079   (\acronymfont{\glsentryshortpl{##2}})}}%
6080 \renewcommand*{\ACRfullplfmt}[3]{%
6081   \glslink[##1]{##2}{%
6082     \mfirststucMakeUppercase{\glsentrylongpl{##2}##3\space
6083     (\acronymfont{\glsentryshortpl{##2}})}}}%
6084 \renewcommand*{\glsentryfull}[1]{%
6085   \glsentrylong{##1}\space(\acronymfont{\glsentryshort{##1}})}%
6086 }%
6087 \renewcommand*{\Glsentryfull}[1]{%
6088   \Glsentrylong{##1}\space(\acronymfont{\glsentryshort{##1}})}%
6089 }%
6090 \renewcommand*{\glsentryfullpl}[1]{%
6091   \glsentrylongpl{##1}\space(\acronymfont{\glsentryshortpl{##1}})}%
6092 }%
6093 \renewcommand*{\Glsentryfullpl}[1]{%
6094   \Glsentrylongpl{##1}\space(\acronymfont{\glsentryshortpl{##1}})}%
6095 }%
6096 \renewcommand*{\acronymentry}[1]{\acronymfont{\glsentryshort{##1}})}%
6097 \renewcommand*{\acronymsort}[2]{##1}%
6098 \renewcommand*{\acronymfont}[1]{##1}%
6099 \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
6100 }
```

dua-desc <long> only acronym style with user-supplied description.

```
6101 \newacronymstyle{dua-desc}%
6102 {%
6103   \GlsUseAcrEntryDispStyle{dua}%
6104 }%
6105 {%
6106   \GlsUseAcrStyleDefs{dua}%
6107   \renewcommand*{\GenericAcronymFields}{}%
6108   \renewcommand*{\acronymentry}[1]{\acronymfont{\glsentrylong{##1}}}%
6109   \renewcommand*{\acronymsort}[2]{##2}%
6110 }%
```

footnote <short>\footnote{<long>} acronym style.

```
6111 \newacronymstyle{footnote}%
6112 {%
```

Check for long form in case this is a mixed glossary.

```
6113 \ifglshaslong{\glslabel}{\glsgenacfmt}{\glsgenentryfmt}%
6114 }%
6115 {%
6116 \renewcommand*{\GenericAcronymFields}{description={\the\glslongtok}}%
```

Need to ensure hyperlinks are switched off on first use:

```
6117 \glshyperfirstfalse
6118 \renewcommand*{\genacrfullformat}[2]{%
6119   \protect\firstacronymfont{\glsentryshort{##1}}##2%
6120   \protect\footnote{\glsentrylong{##1}}%
6121 }%
6122 \renewcommand*{\Genacrfullformat}[2]{%
6123   \firstacronymfont{\Glsentryshort{##1}}##2%
6124   \protect\footnote{\glsentrylong{##1}}%
6125 }%
6126 \renewcommand*{\genplacrfullformat}[2]{%
6127   \protect\firstacronymfont{\glsentryshortpl{##1}}##2%
6128   \protect\footnote{\glsentrylongpl{##1}}%
6129 }%
6130 \renewcommand*{\Genplacrfullformat}[2]{%
6131   \protect\firstacronymfont{\Glsentryshortpl{##1}}##2%
6132   \protect\footnote{\glsentrylongpl{##1}}%
6133 }%
6134 \renewcommand*{\acronymentry}[1]{\acronymfont{\glsentryshort{##1}}}%
6135 \renewcommand*{\acronymsort}[2]{##1}%
6136 \renewcommand*{\acronymfont}[1]{##1}%
6137 \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
```

Don't use footnotes for \acrfull:

```
6138 \renewcommand*{\acrfullfmt}[3]{%
6139   \glslink[##1]{##2}{\acronymfont{\glsentryshort{##2}}}##3\space
6140   (\glsentrylong{##2})}%
```

```

6141 \renewcommand*{\Acrfullfmt}[3]{%
6142   \glslink[##1]{##2}{\acronymfont{\Glsentryshort{##2}}##3\space
6143   (\glsentrylong{##2})}}%
6144 \renewcommand*{\ACRfullfmt}[3]{%
6145   \glslink[##1]{##2}{%
6146     \mfirstucMakeUppercase{\acronymfont{\glsentryshort{##2}}##3\space
6147     (\glsentrylong{##2})}}}}%
6148 \renewcommand*{\acrfullplfmt}[3]{%
6149   \glslink[##1]{##2}{\acronymfont{\glsentryshortpl{##2}}##3\space
6150   (\glsentrylongpl{##2})}}}}%
6151 \renewcommand*{\Acrfullplfmt}[3]{%
6152   \glslink[##1]{##2}{\acronymfont{\Glsentryshortpl{##2}}##3\space
6153   (\glsentrylongpl{##2})}}}}%
6154 \renewcommand*{\ACRfullplfmt}[3]{%
6155   \glslink[##1]{##2}{%
6156     \mfirstucMakeUppercase{\acronymfont{\glsentryshortpl{##2}}##3\space
6157     (\glsentrylongpl{##2})}}}}%

```

Similarly for \glsentryfull etc:

```

6158 \renewcommand*{\glsentryfull}[1]{%
6159   \acronymfont{\glsentryshort{##1}}\space(\glsentrylong{##1})}}%
6160 \renewcommand*{\Glsentryfull}[1]{%
6161   \acronymfont{\Glsentryshort{##1}}\space(\glsentrylong{##1})}}%
6162 \renewcommand*{\glsentryfullpl}[1]{%
6163   \acronymfont{\glsentryshortpl{##1}}\space(\glsentrylongpl{##1})}}%
6164 \renewcommand*{\Glsentryfullpl}[1]{%
6165   \acronymfont{\Glsentryshortpl{##1}}\space(\glsentrylongpl{##1})}}%
6166 }

```

`footnote-sc` \textsc{\langle short \rangle}\footnote{\langle long \rangle} acronym style.

```

6167 \newacronymstyle{footnote-sc}%
6168 {%
6169   \GlsUseAcrEntryDispStyle{footnote}%
6170 }%
6171 {%
6172   \GlsUseAcrStyleDefs{footnote}%
6173   \renewcommand{\acronymentry}[1]{\acronymfont{\glsentryshort{##1}}}%
6174   \renewcommand{\acronymfont}[1]{\textsc{##1}}%
6175   \renewcommand*{\acrpluralsuffix}{\glstextup{\glspluralsuffix}}%
6176 }

```

`footnote-sm` \textsmaller{\langle short \rangle}\footnote{\langle long \rangle} acronym style.

```

6177 \newacronymstyle{footnote-sm}%
6178 {%
6179   \GlsUseAcrEntryDispStyle{footnote}%
6180 }%
6181 {%
6182   \GlsUseAcrStyleDefs{footnote}%
6183   \renewcommand{\acronymentry}[1]{\acronymfont{\glsentryshort{##1}}}%
6184   \renewcommand{\acronymfont}[1]{\textsmaller{##1}}%

```

```
6185 \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
6186 }%
```

footnote-desc *<short>\footnote{<long>}* acronym style that has an accompanying description (which the user needs to supply).

```
6187 \newacronymstyle{footnote-desc}%
6188 {%
6189 \GlsUseAcrEntryDispStyle{footnote}%
6190 }%
6191 {%
6192 \GlsUseAcrStyleDefs{footnote}%
6193 \renewcommand*{\GenericAcronymFields}{}%
6194 \renewcommand*{\acronymsort}[2]{##2}%
6195 \renewcommand*{\acronymentry}[1]{%
6196 \glsentrylong{##1}\space (\acronymfont{\glsentryshort{##1}})}%
6197 }
```

footnote-sc-desc *\textsc{<short>}\footnote{<long>}* acronym style that has an accompanying description (which the user needs to supply).

```
6198 \newacronymstyle{footnote-sc-desc}%
6199 {%
6200 \GlsUseAcrEntryDispStyle{footnote-sc}%
6201 }%
6202 {%
6203 \GlsUseAcrStyleDefs{footnote-sc}%
6204 \renewcommand*{\GenericAcronymFields}{}%
6205 \renewcommand*{\acronymsort}[2]{##2}%
6206 \renewcommand*{\acronymentry}[1]{%
6207 \glsentrylong{##1}\space (\acronymfont{\glsentryshort{##1}})}%
6208 }
```

footnote-sm-desc *\textsmaller{<short>}\footnote{<long>}* acronym style that has an accompanying description (which the user needs to supply).

```
6209 \newacronymstyle{footnote-sm-desc}%
6210 {%
6211 \GlsUseAcrEntryDispStyle{footnote-sm}%
6212 }%
6213 {%
6214 \GlsUseAcrStyleDefs{footnote-sm}%
6215 \renewcommand*{\GenericAcronymFields}{}%
6216 \renewcommand*{\acronymsort}[2]{##2}%
6217 \renewcommand*{\acronymentry}[1]{%
6218 \glsentrylong{##1}\space (\acronymfont{\glsentryshort{##1}})}%
6219 }
```

fineAcronymSynonyms

```
6220 \newcommand*{\DefineAcronymSynonyms}{%
```

Short form

```
\acs
6221 \let\acs\acrshort
First letter uppercase short form

\Acs
6222 \let\Acs\Acrshort
Plural short form

\acsp
6223 \let\acsp\acrshortpl
First letter uppercase plural short form

\Acsp
6224 \let\Acsp\Acrshortpl
Long form

\acl
6225 \let\acl\acrlong
Plural long form

\aclp
6226 \let\aclp\acrlongpl
First letter upper case long form

\Acl
6227 \let\Acl\Acrlong
First letter upper case plural long form

\Aclp
6228 \let\Aclp\Acrlongpl
Full form

\acf
6229 \let\acf\acrfull
Plural full form

\acf
6230 \let\acf\acrfullpl
First letter upper case full form

\Acf
6231 \let\Acf\Acrlong
```

First letter upper case plural full form

```
\Acfp  
6232 \let\Acfp\Acrfullpl
```

Standard form

```
\ac  
6233 \let\ac\gls
```

First upper case standard form

```
\Ac  
6234 \let\Ac\Gls
```

Standard plural form

```
\acp  
6235 \let\acp\glsp
```

Standard first letter upper case plural form

```
\Acp  
6236 \let\Acp\Glsp  
6237 }
```

Define synonyms if required

```
6238 \ifglsacrshortcuts  
6239 \DefineAcronymSynonyms  
6240 \fi
```

These commands for setting the style are now deprecated but are kept for backward compatibility.

AcronymDisplayStyle Sets the default acronym display style for given glossary.

```
6241 \newcommand*{\SetDefaultAcronymDisplayStyle}[1]{%  
6242 \def\glsentryfmt[#1]{\glsgenentryfmt} %  
6243 }
```

defaultNewAcronymDef Sets up the acronym definition for the default style. The information is provided by the tokens `\glslabeltok`, `\glsshorttok`, `\glslongtok` and `\glskeylisttok`.

```
6244 \newcommand*{\DefaultNewAcronymDef}{%  
6245 \edef\@do@newglossaryentry{  
6246 \noexpand\newglossaryentry{\the\glslabeltok}}%  
6247 {  
6248 type=\acronymtype,%  
6249 name={\the\glsshorttok},%  
6250 sort={\the\glsshorttok},%  
6251 text={\the\glsshorttok},%
```

```

6252     first={\acrfullformat{\the\glslongtok}{\the\glsshorttok}},%
6253     plural={\noexpand\expandonce\noexpand\@glo@shortpl},%
6254     firstplural={\acrfullformat{\noexpand\expandonce\noexpand\@glo@longpl}%
6255                               {\noexpand\expandonce\noexpand\@glo@shortpl}},%
6256     short={\the\glsshorttok},%
6257     shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
6258     long={\the\glslongtok},%
6259     longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
6260     description={\the\glslongtok},%
6261     descriptionplural={\noexpand\expandonce\noexpand\@glo@longpl},%

```

Remaining options specified by the user:

```

6262     \the\glskeylisttok
6263     }%
6264     }%
6265     \let\@org@gls@assign@firstpl\gls@assign@firstpl
6266     \let\@org@gls@assign@plural\gls@assign@plural
6267     \let\@org@gls@assign@descplural\gls@assign@descplural
6268     \def\gls@assign@firstpl##1##2{%
6269         \@@gls@expand@field{##1}{firstpl}{##2}%
6270     }%
6271     \def\gls@assign@plural##1##2{%
6272         \@@gls@expand@field{##1}{plural}{##2}%
6273     }%
6274     \def\gls@assign@descplural##1##2{%
6275         \@@gls@expand@field{##1}{descplural}{##2}%
6276     }%
6277     \do@newglossaryentry
6278     \let\gls@assign@firstpl\@org@gls@assign@firstpl
6279     \let\gls@assign@plural\@org@gls@assign@plural
6280     \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
6281 }

```

DefaultAcronymStyle Set up the default acronym style:

```
6282 \newcommand*{\SetDefaultAcronymStyle}{%
```

Set the display style:

```

6283   \for\@gls@type:=\glsacronymlists\do{%
6284     \SetDefaultAcronymDisplayStyle{\@gls@type}%
6285   }%

```

Set up the definition of `\newacronym`:

```
6286   \renewcommand{\newacronym}[4][]{%
```

If user is just using the main glossary and hasn't identified it as a list of acronyms, then update. (This is done to ensure backwards compatibility with versions prior to 2.04).

```

6287   \ifx\@glsacronymlists\empty
6288     \def\@glo@type{\acronymtype}%
6289     \setkeys{glossentry}{##1}%
6290     \DeclareAcronymList{\@glo@type}%

```

```

6291     \SetDefaultAcronymDisplayStyle{\@glo@type}%
6292     \fi
6293     \glskeylisttok{##1}%
6294     \glslabeltok{##2}%
6295     \glsshorttok{##3}%
6296     \glslongtok{##4}%
6297     \newacronymhook
6298     \DefaultNewAcronymDef
6299 }%
6300 \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
6301 }

```

`\acrfootnote` Used by the footnote acronym styles.

```
6302 \newcommand*{\acrfootnote}[3]{\acrlinkfootnote{#1}{#2}{#3}}
```

`\acrlinkfootnote`

```

6303 \newcommand*{\acrlinkfootnote}[3]{%
6304   \footnote{\glslink[#1]{#2}{#3}}%
6305 }
```

`\acrnlkfootnote`

```

6306 \newcommand*{\acrnlkfootnote}[3]{%
6307   \footnote{#3}}%
6308 }
```

`AcronymDisplayStyle` Sets the acronym display style for given glossary for the description and footnote combination.

```
6309 \newcommand*{\SetDescriptionFootnoteAcronymDisplayStyle}[1]{%
6310   \def\glsentryfmt[#1]{%
```

```

6311   \ifempty\glscustomtext
6312   {%
6313     \ifused{\glslabel}%
6314     {%
6315       \acronymfont{\glsentryfmt}%
6316     }%
6317     {%
6318       \firstacronymfont{\glsentryfmt}%
6319       \ifhassymbol{\glslabel}%
6320       {%
6321         \expandafter\protect\expandafter\acrfootnote\expandafter
6322           {\@gls@link@opts}{\@gls@link@label}%
6323       }%
6324       \glsifplural
6325         {\glsentrysymbolplural{\glslabel}}%
6326         {\glsentrysymbol{\glslabel}}%
6327       }%
6328     }%
6329   }%
```

```

6330      }%
6331      {\glscustomtext\glsinsert}%
6332  }%
6333 }

otnoteNewAcronymDef
6334 \newcommand*{\DescriptionFootnoteNewAcronymDef}{%
6335   \edef\@do@newglossaryentry{%
6336     \noexpand\newglossaryentry{\the\glslabeltok}%
6337     {%
6338       type=\acronymtype,%
6339       name={\noexpand\acronymfont{\the\glsshorttok}},%
6340       sort={\the\glsshorttok},%
6341       first={\the\glsshorttok},%
6342       firstplural={\noexpand\expandonce\noexpand\@glo@shortpl},%
6343       text={\the\glsshorttok},%
6344       plural={\noexpand\expandonce\noexpand\@glo@shortpl},%
6345       short={\the\glsshorttok},%
6346       shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
6347       long={\the\glslongtok},%
6348       longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
6349       symbol={\the\glslongtok},%
6350       symbolplural={\noexpand\expandonce\noexpand\@glo@longpl},%
6351       \the\glskeylisttok
6352     }%
6353   }%
6354   \let\@org@gls@assign@firstpl\gls@assign@firstpl
6355   \let\@org@gls@assign@plural\gls@assign@plural
6356   \let\@org@gls@assign@symbolplural\gls@assign@symbolplural
6357   \def\gls@assign@firstpl##1##2{%
6358     \@@gls@expand@field{##1}{firstpl}{##2}%
6359   }%
6360   \def\gls@assign@plural##1##2{%
6361     \@@gls@expand@field{##1}{plural}{##2}%
6362   }%
6363   \def\gls@assign@symbolplural##1##2{%
6364     \@@gls@expand@field{##1}{symbolplural}{##2}%
6365   }%
6366   \@do@newglossaryentry
6367   \let\gls@assign@plural\@org@gls@assign@plural
6368   \let\gls@assign@firstpl\@org@gls@assign@firstpl
6369   \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
6370 }

```

ootnoteAcronymStyle If a description and footnote are both required, store the long form in the symbol key. Store the short form in text key. Note that since the long form is stored in the symbol key, if you want the long form to appear in the list of acronyms, you need to use a glossary style that displays the symbol key.

```
6371 \newcommand*{\SetDescriptionFootnoteAcronymStyle}{%
```

```

6372 \renewcommand{\newacronym}[4] []{%
6373   \ifx\@glsacronymlists\empty
6374     \def\@glo@type{\acronymtype}%
6375     \setkeys{glossentry}{##1}%
6376     \DeclareAcronymList{\@glo@type}%
6377     \SetDescriptionFootnoteAcronymDisplayStyle{\@glo@type}%
6378   \fi
6379   \glskeylisttok{##1}%
6380   \glslabeltok{##2}%
6381   \glsshorttok{##3}%
6382   \glslongtok{##4}%
6383   \newacronymhook
6384   \DescriptionFootnoteNewAcronymDef
6385 }%

```

If footnote package option is specified, set the first use to append the long form (stored in symbol) as a footnote.

```

6386 \c@for\@gls@type:=\@glsacronymlists\do{%
6387   \SetDescriptionFootnoteAcronymDisplayStyle{\@gls@type}%
6388 }%

```

Redefine \acronymfont if small caps required. The plural suffix is set in an upright font so that it remains in normal lower case, otherwise it looks as though it's part of the acronym.

```

6389 \ifglsacrsmalls
6390   \renewcommand*\acronymfont[1]{\textsc{##1}}%
6391   \renewcommand*\acrpluralsuffix{%
6392     \glstextup{\glspluralsuffix}}%
6393 \else
6394   \ifglsacrsmaller
6395     \renewcommand*\acronymfont[1]{\textsmaller{##1}}%
6396   \fi
6397 \fi

```

Check for package option clash

```

6398 \ifglsacrdua
6399   \PackageError{glossaries}{Option clash: 'footnote' and 'dua'
6400   can't both be set}{}%
6401 \fi
6402 }%

```

AcronymDisplayStyle Sets the acronym display style for given glossary with description and dua combination.

```

6403 \newcommand*\SetDescriptionDUAAcronymDisplayStyle[1]{%
6404   \def\glsentryfmt[#1]{\glsentryfmt}%
6405 }%

```

```

ionDUANewAcronymDef
6406 \newcommand*\DescriptionDUANewAcronymDef{%

```

```

6407 \edef\@do@newglossaryentry{%
6408   \noexpand\newglossaryentry{\the\glslabeltok}%
6409   {%
6410     type=\acronymtype,%
6411     name={\the\glslongtok},%
6412     sort={\the\glslongtok},%
6413     text={\the\glslongtok},%
6414     first={\the\glslongtok},%
6415     plural={\noexpand\expandonce\noexpand\@glo@longpl},%
6416     firstplural={\noexpand\expandonce\noexpand\@glo@longpl},%
6417     short={\the\glsshorttok},%
6418     shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
6419     long={\the\glslongtok},%
6420     longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
6421     symbol={\the\glsshorttok},%
6422     symbolplural={\noexpand\expandonce\noexpand\@glo@shortpl},%
6423     \the\glskeylisttok
6424   }%
6425 }%
6426 \let\@org@gls@assign@firstpl\gls@assign@firstpl
6427 \let\@org@gls@assign@plural\gls@assign@plural
6428 \let\@org@gls@assign@symbolplural\gls@assign@symbolplural
6429 \def\gls@assign@firstpl##1##2{%
6430   \@@gls@expand@field{##1}{firstpl}{##2}%
6431 }%
6432 \def\gls@assign@plural##1##2{%
6433   \@@gls@expand@field{##1}{plural}{##2}%
6434 }%
6435 \def\gls@assign@symbolplural##1##2{%
6436   \@@gls@expand@field{##1}{symbolplural}{##2}%
6437 }%
6438 \@do@newglossaryentry
6439 \let\gls@assign@firstpl\@org@gls@assign@firstpl
6440 \let\gls@assign@plural\@org@gls@assign@plural
6441 \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
6442 }

```

`tionDUAAcronymStyle` Description, don't use acronym and no footnote. Note that the short form is stored in the symbol key, so if the short form needs to be displayed in the glossary, use a style the displays the symbol.

```

6443 \newcommand*{\SetDescriptionDUAAcronymStyle}{%
6444   \ifglsacrssmallcaps
6445     \PackageError{glossaries}{Option clash: ‘smallcaps’ and ‘dua’
6446       can’t both be set}{}%
6447   \else
6448     \ifglsacrssmaller
6449       \PackageError{glossaries}{Option clash: ‘smaller’ and ‘dua’
6450         can’t both be set}{}%
6451   \fi

```

```

6452 \fi
6453 \renewcommand{\newacronym}[4] []{%
6454   \ifx\@glsacronymlists\@empty
6455     \def\@glo@type{\acronymtype}%
6456     \setkeys{glossentry}{##1}%
6457     \DeclareAcronymList{@glo@type}%
6458     \SetDescriptionDUAACronymDisplayStyle{@glo@type}%
6459   \fi
6460   \glskeylisttok{##1}%
6461   \glslabeltok{##2}%
6462   \glsshorttok{##3}%
6463   \glslongtok{##4}%
6464   \newacronymhook
6465   \DescriptionDUANewAcronymDef
6466 }%

```

Set display.

```

6467 \@for\@gls@type:=\@glsacronymlists\do{%
6468   \SetDescriptionDUAACronymDisplayStyle{@gls@type}%
6469 }%
6470 }%

```

AcronymDisplayStyle Sets the acronym display style for given glossary using the description setting (but not footnote or dua).

```

6471 \newcommand*{\SetDescriptionAcronymDisplayStyle}[1]{%
6472   \def\glsentryfmt[#1]{%
6473     \ifdefempty\glscustomtext
6474       {%
6475         \ifglsused{\glslabel}%
6476       }%

```

Move the inserted text outside of \acronymfont

```

6477   \let\gls@org@insert\glsinsert
6478   \let\glsinsert\@empty
6479   \acronymfont{\glsgenentryfmt}\gls@org@insert
6480 }%
6481 {%
6482   \glsgenentryfmt
6483   \ifglshassymbol{\glslabel}%
6484     {%
6485       \glsifplural
6486     }%
6487     \def\@glo@symbol{\glsentrysymbolplural{\glslabel}}%
6488   }%
6489   {%
6490     \def\@glo@symbol{\glsentrysymbol{\glslabel}}%
6491   }%
6492   \space(\protect\firstacronymfont
6493   {\glscapscase

```

```

6494          {\@glo@symbol}
6495          {\@glo@symbol}
6496          {\mfirstucMakeUppercase{\@glo@symbol}}))%
6497          }%
6498          {}%
6499          }%
6500          }%
6501          {\glscustomtext\glsinsert}%
6502          }%
6503 }

\optionNewAcronymDef
6504 \newcommand*\DescriptionNewAcronymDef{%
6505   \edef\@do@newglossaryentry{%
6506     \noexpand\newglossaryentry{\the\glslabeltok}%
6507     {%
6508       type=\acronymtype,%
6509       name={\noexpand
6510         \acrnameformat{\the\glsshorttok}{\the\glslongtok}},%
6511       sort={\the\glsshorttok},%
6512       first={\the\glslongtok},%
6513       firstplural={\noexpand\expandonce\noexpand\@glo@longpl},%
6514       text={\the\glsshorttok},%
6515       plural={\noexpand\expandonce\noexpand\@glo@shortpl},%
6516       short={\the\glsshorttok},%
6517       shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
6518       long={\the\glslongtok},%
6519       longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
6520       symbol={\noexpand\@glo@text},%
6521       symbolplural={\noexpand\expandonce\noexpand\@glo@shortpl},%
6522       \the\glskeylisttok}%
6523     }%
6524     \let\@org@gls@assign@firstpl\gls@assign@firstpl
6525     \let\@org@gls@assign@plural\gls@assign@plural
6526     \let\@org@gls@assign@symbolplural\gls@assign@symbolplural
6527     \def\gls@assign@firstpl##1##2{%
6528       \@@gls@expand@field{##1}{firstpl}{##2}%
6529     }%
6530     \def\gls@assign@plural##1##2{%
6531       \@@gls@expand@field{##1}{plural}{##2}%
6532     }%
6533     \def\gls@assign@symbolplural##1##2{%
6534       \@@gls@expand@field{##1}{symbolplural}{##2}%
6535     }%
6536     \@do@newglossaryentry
6537     \let\gls@assign@firstpl\@org@gls@assign@firstpl
6538     \let\gls@assign@plural\@org@gls@assign@plural
6539     \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
6540   }

```

`criptionAcronymStyle` Option description is used, but not dua or footnote. Store long form in first key and short form in text and symbol key. The name is stored using `\acrnameformat` to allow the user to override the way the name is displayed in the list of acronyms.

```
6541 \newcommand*{\SetDescriptionAcronymStyle}{%
6542   \renewcommand{\newacronym}[4][]{%
6543     \ifx\@glsacronymlists\@empty
6544       \def\@glo@type{\acronymtype}%
6545       \setkeys{glossentry}{##1}%
6546       \DeclareAcronymList{\@glo@type}%
6547       \SetDescriptionAcronymDisplayStyle{\@glo@type}%
6548     \fi
6549     \glskeylisttok{##1}%
6550     \glslabeltok{##2}%
6551     \glsshorttok{##3}%
6552     \glslongtok{##4}%
6553     \newacronymhook
6554     \DescriptionNewAcronymDef
6555   }%
```

Set display.

```
6556   \c@for\c@glstoken:=\c@glsacronymlists\do{%
6557     \SetDescriptionAcronymDisplayStyle{\c@glstoken}%
6558   }%
```

Redefine `\acronymfont` if small caps required. The plural suffix is set in an upright font so that it remains in normal lower case, otherwise it looks as though it's part of the acronym.

```
6559   \ifglsacrsmallicon
6560     \renewcommand{\acronymfont}[1]{\textsc{##1}}
6561     \renewcommand*{\acrpluralsuffix}{%
6562       \glstextup{\glspluralsuffix}}%
6563   \else
6564     \ifglsacrsmaller
6565       \renewcommand*{\acronymfont}[1]{\textsmaller{##1}}%
6566     \fi
6567   \fi
6568 }%
```

`AcronymDisplayStyle` Sets the acronym display style for given glossary with footnote setting (but not description or dua).

```
6569 \newcommand*{\SetFootnoteAcronymDisplayStyle}[1]{%
6570   \def\glsentryfmt[#1]{%
6571     \ifdefempty\glscustomtext
6572       {}%
```

Move the inserted text outside of `\acronymfont`

```
6573   \let\gls@org@insert\glsinsert
```

```

6574     \let\glsinsert\@empty
6575     \ifglsused{\glslabel}%
6576     {%
6577         \acronymfont{\glsgenentryfmt}\gls@org@insert
6578     }%
6579     {%
6580         \firstacronymfont{\glsgenentryfmt}\gls@org@insert
6581         \ifglshaslong{\glslabel}%
6582         {%
6583             \expandafter\protect\expandafter\acrfootnote\expandafter
6584                 {\@gls@link@opts}{\@gls@link@label}%
6585             {%
6586                 \glsifplural
6587                     {\glsentrylongpl{\glslabel}}%
6588                     {\glsentrylong{\glslabel}}%
6589             }%
6590         }%
6591         {}%
6592     }%
6593 }%
6594     {\glscustomtext\glsinsert}%
6595 }%
6596 }

otnoteNewAcronymDef
6597 \newcommand*\FootnoteNewAcronymDef{%
6598   \edef\@do@newglossaryentry{%
6599     \noexpand\newglossaryentry{\the\glslabeltok}%
6600     {%
6601       type=\acronymtype,%
6602       name={\noexpand\acronymfont{\the\glsshorttok}},%
6603       sort={\the\glsshorttok},%
6604       text={\the\glsshorttok},%
6605       plural={\noexpand\expandonce\noexpand\@glo@shortpl},%
6606       first={\the\glsshorttok},%
6607       firstplural={\noexpand\expandonce\noexpand\@glo@shortpl},%
6608       short={\the\glsshorttok},%
6609       shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
6610       long={\the\glslongtok},%
6611       longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
6612       description={\the\glslongtok},%
6613       descriptionplural={\noexpand\expandonce\noexpand\@glo@longpl},%
6614       \the\glskeylisttok
6615     }%
6616   }%
6617   \let\@org@gls@assign@plural\gls@assign@plural
6618   \let\@org@gls@assign@firstpl\gls@assign@firstpl
6619   \let\@org@gls@assign@descplural\gls@assign@descplural
6620   \def\gls@assign@firstpl##1##2{%

```

```

6621     \@@gls@expand@field{##1}{firstpl}{##2}%
6622   }%
6623   \def\gls@assign@plural##1##2{%
6624     \@@gls@expand@field{##1}{plural}{##2}%
6625   }%
6626   \def\gls@assign@descplural##1##2{%
6627     \@@gls@expand@field{##1}{descplural}{##2}%
6628   }%
6629   \do@newglossaryentry
6630   \let\gls@assign@plural\org@gls@assign@plural
6631   \let\gls@assign@firstpl\org@gls@assign@firstpl
6632   \let\gls@assign@descplural\org@gls@assign@descplural
6633 }

```

`\ootnoteAcronymStyle` If footnote package option is specified, set the first use to append the long form (stored in `description`) as a footnote. Use the `description` key to store the long form.

```

6634 \newcommand*\SetFootnoteAcronymStyle{%
6635   \renewcommand{\newacronym}[4][]{%
6636     \ifx\glsacronymlists\empty
6637       \def\@glo@type{\acronymtype}%
6638       \setkeys{glossentry}{##1}%
6639       \DeclareAcronymList{\@glo@type}%
6640       \SetFootnoteAcronymDisplayStyle{\@glo@type}%
6641     \fi
6642     \glskeylisttok{##1}%
6643     \glslabeltok{##2}%
6644     \glsshorttok{##3}%
6645     \glslongtok{##4}%
6646     \newacronymhook
6647     \FootnoteNewAcronymDef
6648   }%

```

Set display

```

6649   \for@\gls@type:=\glsacronymlists\do{%
6650     \SetFootnoteAcronymDisplayStyle{\@gls@type}%
6651   }%

```

Redefine `\acronymfont` if small caps required. The plural suffix is set in an upright font so that it remains in normal lower case, otherwise it looks as though it's part of the acronym.

```

6652   \ifglsacrsmallicaps
6653     \renewcommand*\acronymfont[1]{\textsc{##1}}%
6654     \renewcommand*\acrpluralsuffix{%
6655       \glstextup{\glspluralsuffix}}%
6656   \else
6657     \ifglsacrsmaller
6658       \renewcommand*\acronymfont[1]{\textsmaller{##1}}%
6659     \fi
6660   \fi

```

Check for option clash

```
6661 \ifglsacrdua
6662     \PackageError{glossaries}{Option clash: `footnote' and `dua'
6663     can't both be set}{}%
6664 \fi
6665 }%
```

`lsdoparenifnotempty` Do a space followed by the argument if the argument doesn't expand to empty or `\relax`. If argument isn't empty (or `\relax`), apply the macro to it given in the second argument.

```
6666 \DeclareRobustCommand*{\glsdoparenifnotempty}[2]{%
6667     \protected@edef\gls@tmp{\#1}%
6668     \ifdefempty\gls@tmp
6669     {}%
6670     {}%
6671     \ifx\gls@tmp\@gls@default@value
6672     \else
6673     \space (\#2{\#1})%
6674     \fi
6675 }%
6676 }
```

`AcronymDisplayStyle` Sets the acronym display style for given glossary where neither footnote nor description is required, but `smallcaps` or smaller specified.

```
6677 \newcommand*{\SetSmallAcronymDisplayStyle}[1]{%
6678     \def\glsentryfmt{\#1}%
6679     \ifdefempty\glscustomtext
6680     {}%
```

Move the inserted text outside of `\acronymfont`

```
6681     \let\gls@org@insert\glsinsert
6682     \let\glsinsert\@empty
6683     \ifglsused{\glslabel}%
6684     {}%
6685     \acronymfont{\glsgenentryfmt}\gls@org@insert
6686     {}%
6687     {}%
6688     \glsgenentryfmt
6689     \ifglshassymbol{\glslabel}%
6690     {}%
6691     \glsifplural
6692     {}%
6693     \def\@glo@symbol{\glsentrysymbolplural{\glslabel}}%
6694     {}%
6695     {}%
6696     \def\@glo@symbol{\glsentrysymbol{\glslabel}}%
6697     {}%
6698     \space
```

```

6699      (\glscapscase
6700      {\firstacronymfont{\glo@symbol}}%
6701      {\firstacronymfont{\glo@symbol}}%
6702      {\firstacronymfont{\mfirstucMakeUppercase{\glo@symbol}}}})%
6703      }%
6704      {}%
6705      }%
6706      }%
6707      {\glscustomtext\glsinsert}%
6708      }%
6709 }

```

\SmallNewAcronymDef

```

6710 \newcommand*\SmallNewAcronymDef{%
6711   \edef\@do@newglossaryentry{%
6712     \noexpand\newglossaryentry{\the\glslabeltok}%
6713     {%
6714       type=\acronymtype,%
6715       name={\noexpand\acronymfont{\the\glsshorttok}},%
6716       sort={\the\glsshorttok},%
6717       text={\the\glsshorttok},%

```

Default to the short plural.

```

6718     plural={\noexpand\expandonce\noexpand\@glo@shortpl},%
6719     first={\the\glslongtok},%

```

Default to the long plural.

```

6720     firstplural={\noexpand\expandonce\noexpand\@glo@longpl},%
6721     short={\the\glsshorttok},%
6722     shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
6723     long={\the\glslongtok},%
6724     longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
6725     description={\noexpand\@glo@first},%
6726     descriptionplural={\noexpand\expandonce\noexpand\@glo@longpl},%
6727     symbol={\the\glsshorttok},%

```

Default to the short plural.

```

6728     symbolplural={\noexpand\expandonce\noexpand\@glo@shortpl},%
6729     \the\glskeylisttok
6730     }%
6731   }%
6732   \let\@org@gls@assign@firstpl\gls@assign@firstpl
6733   \let\@org@gls@assign@plural\gls@assign@plural
6734   \let\@org@gls@assign@descplural\gls@assign@descplural
6735   \let\@org@gls@assign@symbolplural\gls@assign@symbolplural
6736   \def\gls@assign@firstpl##1##2{%
6737     \@@gls@expand@field{##1}{firstpl}{##2}%
6738   }%
6739   \def\gls@assign@plural##1##2{%
6740     \@@gls@expand@field{##1}{plural}{##2}%

```

```

6741  }%
6742  \def\gls@assign@descplural##1##2{%
6743    \@@gls@expand@field{##1}{descplural}{##2}%
6744  }%
6745  \def\gls@assign@symbolplural##1##2{%
6746    \@@gls@expand@field{##1}{symbolplural}{##2}%
6747  }%
6748  \do@newglossaryentry
6749  \let\gls@assign@firstpl\@org@gls@assign@firstpl
6750  \let\gls@assign@plural\@org@gls@assign@plural
6751  \let\gls@assign@descplural\@org@gls@assign@descplural
6752  \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
6753 }

```

`\SetSmallAcronymStyle` Neither footnote nor description required, but smallcaps or smaller specified.
Use the symbol key to store the short form and first to store the long form.

```

6754 \newcommand*{\SetSmallAcronymStyle}{%
6755   \renewcommand{\newacronym}[4][]{%
6756     \ifx\@glsacronymlists\empty
6757       \def\@glo@type{\acronymtype}%
6758       \setkeys{glossentry}{##1}%
6759       \DeclareAcronymList{\@glo@type}%
6760       \SetSmallAcronymDisplayStyle{\@glo@type}%
6761     \fi
6762     \glskeylisttok{##1}%
6763     \glslabeltok{##2}%
6764     \glsshorttok{##3}%
6765     \glslongtok{##4}%
6766     \newacronymhook
6767     \SmallNewAcronymDef
6768   }%

```

Change the display since first only contains long form.

```

6769  \cfor\@gls@type:=\@glsacronymlists\do{%
6770    \SetSmallAcronymDisplayStyle{\@gls@type}%
6771  }%

```

Redefine `\acronymfont` if small caps required. The plural suffix is set in an upright font so that it remains in normal lower case, otherwise it looks as though it's part of the acronym.

```

6772  \ifglsacrsmallicaps
6773    \renewcommand*{\acronymfont}[1]{\textsc{##1}}
6774    \renewcommand*{\acrpluralsuffix}{%
6775      \glstextup{\glspluralsuffix}}%
6776  \else
6777    \renewcommand*{\acronymfont}[1]{\textsmaller{##1}}
6778  \fi

```

check for option clash

```

6779  \ifglsacrdua

```

```

6780   \ifglsacrsmallsCaps
6781     \PackageError{glossaries}{Option clash: 'smallcaps' and 'dua'
6782       can't both be set}{}
6783   \else
6784     \PackageError{glossaries}{Option clash: 'smaller' and 'dua'
6785       can't both be set}{}
6786   \fi
6787 \fi
6788 }%

```

\SetDUADisplayStyle Sets the acronym display style for given glossary with dua setting.

```

6789 \newcommand*{\SetDUADisplayStyle}[1]{%
6790   \def\glsentryfmt[#1]{\glsgenentryfmt}%
6791 }

```

\DUANewAcronymDef

```

6792 \newcommand*{\DUANewAcronymDef}{%
6793   \edef\@do@newglossaryentry{%
6794     \noexpand\newglossaryentry{\the\glslabeltok}%
6795     {%
6796       type=\acronymtype,%
6797       name={\the\glsshorttok},%
6798       text={\the\glslongtok},%
6799       first={\the\glslongtok},%
6800       plural={\noexpand\expandonce\noexpand\@glo@longpl},%
6801       firstplural={\noexpand\expandonce\noexpand\@glo@longpl},%
6802       short={\the\glsshorttok},%
6803       shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
6804       long={\the\glslongtok},%
6805       longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
6806       description={\the\glslongtok},%
6807       descriptionplural={\noexpand\expandonce\noexpand\@glo@longpl},%
6808       symbol={\the\glsshorttok},%
6809       symbolplural={\noexpand\expandonce\noexpand\@glo@shortpl},%
6810       \the\glskeylisttok
6811     }%
6812   }%
6813   \let\@org@gls@assign@firstpl\gls@assign@firstpl
6814   \let\@org@gls@assign@plural\gls@assign@plural
6815   \let\@org@gls@assign@symbolplural\gls@assign@symbolplural
6816   \let\@org@gls@assign@descplural\gls@assign@descplural
6817   \def\gls@assign@firstpl##1##2{%
6818     \@@gls@expand@field{##1}{firstpl}{##2}%
6819   }%
6820   \def\gls@assign@plural##1##2{%
6821     \@@gls@expand@field{##1}{plural}{##2}%
6822   }%
6823   \def\gls@assign@symbolplural##1##2{%
6824     \@@gls@expand@field{##1}{symbolplural}{##2}%

```

```

6825  }%
6826  \def\gls@assign@descplural##1##2{%
6827    \@@gls@expand@field{##1}{descplural}{##2}%
6828  }%
6829  \do@newglossaryentry
6830  \let\gls@assign@firstpl\@org@gls@assign@firstpl
6831  \let\gls@assign@plural\@org@gls@assign@plural
6832  \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
6833  \let\gls@assign@descplural\@org@gls@assign@descplural
6834 }

```

\SetDUAStyle Always expand acronyms.

```

6835 \newcommand*{\SetDUAStyle}{%
6836   \renewcommand{\newacronym}[4][]{%
6837     \ifx\@glsacronymlists\empty
6838       \def\@glo@type{\acronymtype}%
6839       \setkeys{glossentry}{##1}%
6840       \DeclareAcronymList{\@glo@type}%
6841       \SetDUADisplayStyle{\@glo@type}%
6842     \fi
6843     \glskeylisttok{##1}%
6844     \glslabeltok{##2}%
6845     \glsshorttok{##3}%
6846     \glslongtok{##4}%
6847     \newacronymhook
6848     \DUANewAcronymDef
6849   }%

```

Set the display

```

6850  \foreach\@gls@type:=\@glsacronymlists\do{%
6851    \SetDUADisplayStyle{\@gls@type}%
6852  }%
6853 }

```

\SetAcronymStyle

```

6854 \newcommand*{\SetAcronymStyle}{%
6855   \SetDefaultAcronymStyle
6856   \ifglsacrdescription
6857     \ifglsacrfootnote
6858       \SetDescriptionFootnoteAcronymStyle
6859     \else
6860       \ifglsacrdua
6861         \SetDescriptionDUAAcronymStyle
6862       \else
6863         \SetDescriptionAcronymStyle
6864       \fi
6865     \fi
6866   \else
6867     \ifglsacrfootnote
6868       \SetFootnoteAcronymStyle

```

```

6869     \else
6870         \ifthenelse{\boolean{glsacrsmallicaps}\OR
6871             \boolean{glsacrsmaller}}%
6872             {%
6873                 \SetSmallAcronymStyle
6874             }%
6875             {%
6876                 \ifglsacrdua
6877                     \SetDUAStyle
6878                 \fi
6879             }%
6880         \fi
6881     \fi
6882 }

```

Set the acronym style according to the package options

```
6883 \SetAcronymStyle
```

Allow user to define their own custom acronyms. (For compatibility with versions before v3.0, the short form is stored in the user1 key, the plural short form is stored in the user2 key, the long form is stored in the user3 key and the plural long form is stored in the user4 key.) Defaults to displaying only the acronym with the long form as the description.

`tCustomDisplayStyle` Sets the acronym display style.

```

6884 \newcommand*{\SetCustomDisplayStyle}[1]{%
6885     \def\glsentryfmt[#1]{\glsgenentryfmt}%
6886 }

```

`CustomAcronymFields`

```

6887 \newcommand*{\CustomAcronymFields}{%
6888     name={\the\glsshorttok},%
6889     description={\the\glslongtok},%
6890     first={\acrfullformat{\the\glslongtok}{\the\glsshorttok}},%
6891     firstplural={\acrfullformat
6892         {\noexpand\glsentrylongpl{\the\glslabeltok}}%
6893         {\noexpand\glsentryshortpl{\the\glslabeltok}}},%
6894     text={\the\glsshorttok},%
6895     plural={\the\glsshorttok\noexpand\acrpluralsuffix}%
6896 }

```

`CustomNewAcronymDef`

```

6897 \newcommand*{\CustomNewAcronymDef}{%
6898     \protected@edef\@do@newglossaryentry{%
6899         \noexpand\newglossaryentry{\the\glslabeltok}%
6900         {%
6901             type=\acronymtype,%
6902             short={\the\glsshorttok},%

```

```

6903     shortplural={\the\glsshorthtok\noexpand\acrpluralsuffix},%
6904     long={\the\glslongtok},%
6905     longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
6906     user1={\the\glsshorthtok},%
6907     user2={\the\glsshorthtok\noexpand\acrpluralsuffix},%
6908     user3={\the\glslongtok},%
6909     user4={\the\glslongtok\noexpand\acrpluralsuffix},%
6910     \CustomAcronymFields,%
6911     \the\glskeylisttok
6912   }%
6913 }%
6914 \do@newglossaryentry
6915 }

```

\SetCustomStyle

```

6916 \newcommand*\SetCustomStyle}{%
6917   \renewcommand{\newacronym}[4][]{%
6918     \ifx\@glsacronymlists\empty
6919       \def\@glo@type{\acronymtype}%
6920       \setkeys{glossentry}{##1}%
6921       \DeclareAcronymList{\@glo@type}%
6922       \SetCustomDisplayStyle{\@glo@type}%
6923     \fi
6924     \glskeylisttok{##1}%
6925     \glslabeltok{##2}%
6926     \glsshorthtok{##3}%
6927     \glslongtok{##4}%
6928     \newacronymhook
6929     \CustomNewAcronymDef
6930   }%
6931   Set the display
6932   \for\@gls@type:=\glsacronymlists\do{%
6933     \SetCustomDisplayStyle{\@gls@type}%
6934   }%

```

1.18 Predefined Glossary Styles

The glossaries bundle comes with some predefined glossary styles. These need to be loaded now for the style option to use them.

First, the glossary hyper-navigation commands need to be loaded.

```
6935 \RequirePackage{glossary-hypernav}
```

The styles that use list-like environments. These are not loaded if the nolist option is used:

```
6936 \gls@loadlist
```

The styles that use the longtable environment. These are not loaded if the no-long package option is used.

```
6937 \@gls@loadlong
```

The styles that use the supertabular environment. These are not loaded if the nosuper package option is used or if the package isn't installed.

```
6938 \@gls@loadsuper
```

The tree-like styles. These are not loaded if the notree package option is used.

```
6939 \@gls@loadtree
```

The default glossary style is set according to the style package option, but can be overridden by \glossarystyle. The required style must be defined at this point.

```
6940 \ifx\@glossary@default@style\relax
```

```
6941 \else
```

```
6942 \setglossarystyle{\@glossary@default@style}
```

```
6943 \fi
```

1.19 Debugging Commands

```
\showgloparent \showgloparent{\label}
```

```
6944 \newcommand*\showgloparent[1]{%
```

```
6945 \expandafter\show\csname glo@\glsdetoklabel{#1}@parent\endcsname
```

```
6946 }
```

```
\showglolevel \showglolevel{\label}
```

```
6947 \newcommand*\showglolevel[1]{%
```

```
6948 \expandafter\show\csname glo@\glsdetoklabel{#1}@level\endcsname
```

```
6949 }
```

```
\showglotext \showglotext{\label}
```

```
6950 \newcommand*\showglotext[1]{%
```

```
6951 \expandafter\show\csname glo@\glsdetoklabel{#1}@text\endcsname
```

```
6952 }
```

```
\showgloplural \showgloplural{\label}
```

```
6953 \newcommand*\showgloplural[1]{%
```

```
6954 \expandafter\show\csname glo@\glsdetoklabel{#1}@plural\endcsname
```

```
6955 }
```

```
\showglofirst \showglofirst{\langle label\rangle}
```

```
6956 \newcommand*{\showglofirst}[1]{%
6957   \expandafter\show\csname glo@\glsdetoklabel{#1}@first\endcsname
6958 }
```

```
\showglofirstpl \showglofirstpl{\langle label\rangle}
```

```
6959 \newcommand*{\showglofirstpl}[1]{%
6960   \expandafter\show\csname glo@\glsdetoklabel{#1}@firstpl\endcsname
6961 }
```

```
\showglotype \showglotype{\langle label\rangle}
```

```
6962 \newcommand*{\showglotype}[1]{%
6963   \expandafter\show\csname glo@\glsdetoklabel{#1}@type\endcsname
6964 }
```

```
\showglocounter \showglocounter{\langle label\rangle}
```

```
6965 \newcommand*{\showglocounter}[1]{%
6966   \expandafter\show\csname glo@\glsdetoklabel{#1}@counter\endcsname
6967 }
```

```
\showglouser \showglouser{\langle label\rangle}
```

```
6968 \newcommand*{\showglouser}[1]{%
6969   \expandafter\show\csname glo@\glsdetoklabel{#1}@user\endcsname
6970 }
```

```
\showglouserii \showglouserii{\langle label\rangle}
```

```
6971 \newcommand*{\showglouserii}[1]{%
6972   \expandafter\show\csname glo@\glsdetoklabel{#1}@userii\endcsname
6973 }
```

```
\showglouseriii \showglouseriii{\label}
```

```
6974 \newcommand*{\showglouseriii}[1]{%
6975   \expandafter\show\csname glo@\glsdetoklabel{#1}@useriii\endcsname
6976 }
```

```
\showglouseriv \showglouseriv{\label}
```

```
6977 \newcommand*{\showglouseriv}[1]{%
6978   \expandafter\show\csname glo@\glsdetoklabel{#1}@useriv\endcsname
6979 }
```

```
\showglouserv \showglouserv{\label}
```

```
6980 \newcommand*{\showglouserv}[1]{%
6981   \expandafter\show\csname glo@\glsdetoklabel{#1}@userv\endcsname
6982 }
```

```
\showglouservi \showglouservi{\label}
```

```
6983 \newcommand*{\showglouservi}[1]{%
6984   \expandafter\show\csname glo@\glsdetoklabel{#1}@usersvi\endcsname
6985 }
```

```
\showgloname \showgloname{\label}
```

```
6986 \newcommand*{\showgloname}[1]{%
6987   \expandafter\show\csname glo@\glsdetoklabel{#1}@name\endcsname
6988 }
```

```
\showglodesc \showglodesc{\label}
```

```
6989 \newcommand*{\showglodesc}[1]{%
6990   \expandafter\show\csname glo@\glsdetoklabel{#1}@desc\endcsname
6991 }
```

```
\showglodescplural \showglodescplural{\label}
```

```
6992 \newcommand*{\showglodescplural}[1]{%
6993   \expandafter\show\csname glo@\glsdetoklabel{#1}@descplural\endcsname
6994 }
```

```
\showglosort \showglosort{\label}
```

```
6995 \newcommand*{\showglosort}[1]{%
6996   \expandafter\show\csname glo@\glsdetoklabel{#1}@sort\endcsname
6997 }
```

```
\showglosymbol \showglosymbol{\label}
```

```
6998 \newcommand*{\showglosymbol}[1]{%
6999   \expandafter\show\csname glo@\glsdetoklabel{#1}@symbol\endcsname
7000 }
```

```
\showglosymbolplural \showglosymbolplural{\label}
```

```
7001 \newcommand*{\showglosymbolplural}[1]{%
7002   \expandafter\show\csname glo@\glsdetoklabel{#1}@symbolplural\endcsname
7003 }
```

```
\showgloshort \showgloshort{\label}
```

```
7004 \newcommand*{\showgloshort}[1]{%
7005   \expandafter\show\csname glo@\glsdetoklabel{#1}@short\endcsname
7006 }
```

```
\showgololong \showgololong{\label}
```

```
7007 \newcommand*{\showgololong}[1]{%
7008   \expandafter\show\csname glo@\glsdetoklabel{#1}@long\endcsname
7009 }
```

```
\showgloindex \showgloindex{\label}
```

```
7010 \newcommand*{\showgloindex}[1]{%
7011   \expandafter\show\csname glo@\glsdetoklabel{#1}@index\endcsname
7012 }
```

```
\showgloflag \showgloflag{\label}
```

```
7013 \newcommand*{\showgloflag}[1]{%
7014   \expandafter\show\csname ifglo@\glsdetoklabel{#1}@flag\endcsname
7015 }
```

```
\showgloclist \showgloclist{\label}
```

```
7016 \newcommand*{\showgloclist}[1]{%
7017   \expandafter\show\csname glo@\glsdetoklabel{#1}@loclist\endcsname
7018 }
```

```
\showacronymlists \showacronymlists
```

Show list of glossaries that have been flagged as a list of acronyms.

```
7019 \newcommand*{\showacronymlists}{%
7020   \show@glsacronymlists
7021 }
```

```
\showglossaries \showglossaries
```

Show list of defined glossaries.

```
7022 \newcommand*{\showglossaries}{%
7023   \show@glo@types
7024 }
```

```
\showglossaryin \showglossaryin{\glossary-label}
```

Show the ‘in’ extension for the given glossary.

```
7025 \newcommand*{\showglossaryin}[1]{%
7026   \expandafter\show\csname @glotype@#1@in\endcsname
7027 }
```

```
\showglossaryout \showglossaryout{\glossary-label}
```

Show the ‘out’ extension for the given glossary.

```
7028 \newcommand*{\showglossaryout}[1]{%
7029   \expandafter\show\csname @gloctype@#1@out\endcsname
7030 }
```

```
\showglossarytitle \showglossarytitle{\glossary-label}
```

Show the title for the given glossary.

```
7031 \newcommand*{\showglossarytitle}[1]{%
7032   \expandafter\show\csname @gloctype@#1@title\endcsname
7033 }
```

```
\showglossarycounter \showglossarycounter{\glossary-label}
```

Show the counter for the given glossary.

```
7034 \newcommand*{\showglossarycounter}[1]{%
7035   \expandafter\show\csname @gloctype@#1@counter\endcsname
7036 }
```

```
\showglossaryentries \showglossaryentries{\glossary-label}
```

Show the list of entry labels for the given glossary.

```
7037 \newcommand*{\showglossaryentries}[1]{%
7038   \expandafter\show\csname glolist@#1\endcsname
7039 }
```

1.20 Compatibility with version 2.07 and below

In order to fix some bugs in v3.0, it was necessary to change the way information is written to the glo file, which also meant a change in the format of the Xindy style file. The compatibility option is meant for documents that use a customised Xindy style file with \noist. With the compatibility option, hopefully xindy will still be able to process the old document, but the bugs will remain. The issues in versions 2.07 and below:

- With xindy, the counter used by the entry was hard-coded into the Xindy style file. This meant that you couldn’t use the counter to swap counters.
- With both xindy and makeindex, if used with hyperref and \theH<counter> was different to \thecounter, the link in the location number would be undefined.

```
7040 \csname ifglscompatible-2.07\endcsname
7041   \RequirePackage{glossaries-compatible-207}
7042 \fi
```

2 Prefix Support (glossaries-prefix Code)

This package provides a means of adding prefixes to your glossary entries. For example, you may want to use “a `\gls{<label>}`” on first use but use “an `\gls{<label>}`” on subsequent use.

```
7043 \NeedsTeXFormat{LaTeX2e}
7044 \ProvidesPackage{glossaries-prefix}[2014/07/30 v4.08 (NLCT)]
```

Pass all options to glossaries:

```
7045 \DeclareOption*{\PassOptionsToPackage{\CurrentOption}{glossaries}}
```

Process options:

```
7046 \ProcessOptions
```

Load glossaries:

```
7047 \RequirePackage{glossaries}
```

Add the new keys:

```
7048 \define@key{glossentry}{prefixfirst}{\def\@glo@entryprefixfirst{\#1}}%
7049 \define@key{glossentry}{prefixfirstplural}{\def\@glo@entryprefixfirstplural{\#1}}%
7050 \define@key{glossentry}{prefix}{\def\@glo@entryprefix{\#1}}%
7051 \define@key{glossentry}{prefixplural}{\def\@glo@entryprefixplural{\#1}}%
```

Add them to `\@gls@keymap`:

```
7052 \appto{\gls@keymap}{%
7053   {prefixfirst}{prefixfirst},%
7054   {prefixfirstplural}{prefixfirstplural},%
7055   {prefix}{prefix},%
7056   {prefixplural}{prefixplural}%
7057 }
```

Set the default values:

```
7058 \appto{\newglossaryentryprehook}{%
7059   \def\@glo@entryprefix{}%
7060   \def\@glo@entryprefixplural{}%
7061   \let\@glo@entryprefixfirst\gls@default@value
7062   \let\@glo@entryprefixfirstplural\gls@default@value
7063 }
```

Set the assignment code:

```
7064 \appto{\newglossaryentryposthook}{%
7065   \gls@assign@field{}{\glo@label}{prefix}{\glo@entryprefix}%
7066   \gls@assign@field{}{\glo@label}{prefixplural}{\glo@entryprefixplural}%
}
```

If `prefixfirst` has not been supplied, make it the same as `prefix`.

```
7067 \expandafter\gls@assign@field\expandafter
7068   {\csname glo@\glo@label @prefix\endcsname}{\glo@label}{prefixfirst}%
7069   {\glo@entryprefixfirst}%

```

If prefixfirstplural has not been supplied, make it the same as prefixplural.

```
7070 \expandafter\gls@assign@field\expandafter
7071   {\csname glo@\@glo@label @prefixplural\endcsname}{\@glo@label}%
7072   {prefixfirstplural}{\@glo@entryprefixfirstplural}%
7073 }
```

Define commands to access these fields:

```
glsentryprefixfirst
7074 \newcommand*{\glsentryprefixfirst}[1]{\csuse{glo@#1@prefixfirst}{}}

\entryprefixfirstplural
7075 \newcommand*{\glsentryprefixfirstplural}[1]{\csuse{glo@#1@prefixfirstplural}{}}

\glsentryprefix
7076 \newcommand*{\glsentryprefix}[1]{\csuse{glo@#1@prefix}{}}

\entryprefixplural
7077 \newcommand*{\glsentryprefixplural}[1]{\csuse{glo@#1@prefixplural}{}}

Now for the initial upper case variants:
```

```
Glsentryprefixfirst
7078 \newrobustcmd*{\Glsentryprefixfirst}[1]{%
7079   \protected@edef{\glo@text}{\csname glo@#1@prefixfirst\endcsname}%
7080   \xmakefirststuc{\glo@text}
7081 }

\entryprefixfirstplural
7082 \newrobustcmd*{\Glsentryprefixfirstplural}[1]{%
7083   \protected@edef{\glo@text}{\csname glo@#1@prefixfirstplural\endcsname}%
7084   \xmakefirststuc{\glo@text}
7085 }

\Glsentryprefix
7086 \newrobustcmd*{\Glsentryprefix}[1]{%
7087   \protected@edef{\glo@text}{\csname glo@#1@prefix\endcsname}%
7088   \xmakefirststuc{\glo@text}
7089 }

\entryprefixplural
7090 \newrobustcmd*{\Glsentryprefixplural}[1]{%
7091   \protected@edef{\glo@text}{\csname glo@#1@prefixplural\endcsname}%
7092   \xmakefirststuc{\glo@text}
7093 }
```

Define commands to determine if the prefix keys have been set:

```

\ifglshasprefix
 7094 \newcommand*{\ifglshasprefix}[3]{%
 7095   \ifcsempty{glo@#1@prefix}%
 7096   {#3}%
 7097   {#2}%
 7098 }

ifglshasprefixplural
 7099 \newcommand*{\ifglshasprefixplural}[3]{%
 7100   \ifcsempty{glo@#1@prefixplural}%
 7101   {#3}%
 7102   {#2}%
 7103 }

ifglshasprefixfirst
 7104 \newcommand*{\ifglshasprefixfirst}[3]{%
 7105   \ifcsempty{glo@#1@prefixfirst}%
 7106   {#3}%
 7107   {#2}%
 7108 }

asprefixfirstplural
 7109 \newcommand*{\ifglshasprefixfirstplural}[3]{%
 7110   \ifcsempty{glo@#1@prefixfirstplural}%
 7111   {#3}%
 7112   {#2}%
 7113 }

```

Define commands that insert the prefix before commands like `\gls`:

```

\pgls
 7114 \newrobustcmd{\pgls}{\gls@hyp@opt\pgls}

\gls Unstarred version.
 7115 \newcommand*{\gls}[2][]{{%
 7116   \new@ifnextchar[]{}{%
 7117     {\gls@{\#1}{\#2}}%
 7118     {\gls@{\#1}{\#2}[]}}%
 7119 }

```

`\gls@` Read in the final optional argument:

```

 7120 \def\gls@#1#2[#3]{%
 7121   \glsdoifexists{#2}%
 7122   {%
 7123     \ifglsused{#2}%
 7124     {%
 7125       \glsentryprefix{#2}%
 7126     }%

```

```

7127     {%
7128         \glsentryprefixfirst{#2}%
7129     }%
7130     \gls@{#1}{#2}[#3]%
7131 }%
7132 }

```

Similarly for the plural version:

```
\pglsp{%
    \newrobustcmd{\pglsp}{\gls@hyp@opt\pglsp}
}
```

\@pglsp Unstarred version.

```

7134 \newcommand*{\@pglsp}[2][]{{%
7135     \new@ifnextchar[%%
7136     {\@pglsp@{#1}{#2}}%
7137     {\@pglsp@{#1}{#2}[]}}%
7138 }

```

\@pglsp@ Read in the final optional argument:

```

7139 \def\@pglsp@#1#2[#3]{{%
7140     \glsdoifexists{#2}}%
7141     {%
7142         \ifglsused{#2}%
7143         {%
7144             \glsentryprefixplural{#2}%
7145         }%
7146         {%
7147             \glsentryprefixfirstplural{#2}%
7148         }%
7149         \glspl@{#1}{#2}[#3]%
7150     }%
7151 }

```

Now for the first letter upper case versions:

```
\Pgls
\newrobustcmd{\Pgls}{\gls@hyp@opt\Pgls}
```

\@Pgls Unstarred version.

```

7153 \newcommand*{\@Pgls}[2][]{{%
7154     \new@ifnextchar[%%
7155     {\@Pgls@{#1}{#2}}%
7156     {\@Pgls@{#1}{#2}[]}}%
7157 }

```

\@PglS@ Read in the final optional argument:

```
7158 \def\@PglS@#1#2[#3]{%
7159   \glsdoifexists{#2}%
7160   {%
7161     \ifglsused{#2}%
7162     {%
7163       \ifglshasprefix{#2}%
7164       {%
7165         \Glsentryprefix{#2}%
7166         \gls@{#1}{#2}[#3]%
7167       }%
7168       {\@\Gls@{#1}{#2}[#3]}%
7169     }%
7170   {%
7171     \ifglshasprefixfirst{#2}%
7172     {%
7173       \Glsentryprefixfirst{#2}%
7174       \gls@{#1}{#2}[#3]%
7175     }%
7176     {\@\Gls@{#1}{#2}[#3]}%
7177   }%
7178 }%
7179 }
```

Similarly for the plural version:

\PglSpl

```
7180 \newrobustcmd{\PglSpl}{\gls@hyp@opt\PglSpl}
```

\@PglSpl Unstarred version.

```
7181 \newcommand*{\@PglSpl}[2][]{%
7182   \new@ifnextchar[%
7183   {\@PglSpl@{#1}{#2}}%
7184   {\@PglSpl@{#1}{#2}[]}%
7185 }
```

\@PglSpl@ Read in the final optional argument:

```
7186 \def\@PglSpl@#1#2[#3]{%
7187   \glsdoifexists{#2}%
7188   {%
7189     \ifglsused{#2}%
7190     {%
7191       \ifglshasprefixplural{#2}%
7192       {%
7193         \Glsentryprefixplural{#2}%
7194         \glspl@{#1}{#2}[#3]%
7195       }%
7196       {\@\Glspl@{#1}{#2}[#3]}%
7197     }%
7198   {%
7199     \ifglshasprefixplural{#2}%
7200     {%
7201       \Glsentryprefixplural{#2}%
7202       \glspl@{#1}{#2}[#3]%
7203     }%
7204     {\@\Glspl@{#1}{#2}[#3]}%
7205   }%
7206 }
```

```

7197      }%
7198      {%
7199          \ifglshasprefixfirstplural{#2}%
7200              {%
7201                  \Glsentryprefixfirstplural{#2}%
7202                  \glspl@{#1}{#2}[#3]%
7203              }%
7204              {\@\Glspl@{#1}{#2}[#3]}%
7205          }%
7206      }%
7207 }

```

Finally the all upper case versions:

```
\PGLS
7208 \newrobustcmd{\PGLS}{\gls@hyp@opt\PGLS}
```

\@PGLS Unstarred version.

```

7209 \newcommand*{\@PGLS}[2][]{{%
7210     \new@ifnextchar[%
7211         {\@PGLS@{#1}{#2}}%
7212         {\@PGLS@{#1}{#2}[]}%
7213 }%

```

\@PGLS@ Read in the final optional argument:

```

7214 \def\@PGLS@#1#2[#3]{{%
7215     \glsdoifexists{#2}{%
7216         {%
7217             \ifglsused{#2}{%
7218                 {%
7219                     \mfirstucMakeUppercase{\glsentryprefix{#2}}%
7220                 }%
7221                 {%
7222                     \mfirstucMakeUppercase{\glsentryprefixfirst{#2}}%
7223                 }%
7224                 \@GLS@{#1}{#2}[#3]%
7225             }%
7226 }%

```

Plural version:

```
\PGLSp1
7227 \newrobustcmd{\PGLSp1}{\gls@hyp@opt\PGLSp1}
```

\@PGLSp1 Unstarred version.

```

7228 \newcommand*{\@PGLSp1}[2][]{{%
7229     \new@ifnextchar[%
7230         {\@PGLSp1@{#1}{#2}}%

```

```
7231   {\@PGLSpl@{\#1}{\#2}[]}%  
7232 }
```

\@PGLSpl@ Read in the final optional argument:

```
7233 \def \@PGLSpl@#1#2[#3]{%  
7234   \glsdoifexists{#2}-%  
7235   {%-  
7236     \ifglsused{#2}-%  
7237     {%-  
7238       \mfirstucMakeUppercase{\glsentryprefixplural{#2}}-%  
7239     }%-  
7240     {%-  
7241       \mfirstucMakeUppercase{\glsentryprefixfirstplural{#2}}-%  
7242     }%-  
7243     \@GLSpl@{\#1}{\#2}[#3]-%  
7244   }%-  
7245 }
```

3 Mfirstuc Documented Code

```
7246 \NeedsTeXFormat{LaTeX2e}  
7247 \ProvidesPackage{mfirstuc}[2014/07/30 v1.09 (NLCT)]
```

Requires etoolbox:

```
7248 \RequirePackage{etoolbox}
```

\makefirstuc Syntax:

```
\makefirstuc{\text{}}
```

Makes the first letter uppercase, but will skip initial control sequences if they are followed by a group and make the first thing in the group uppercase, unless the group is empty. Thus \makefirstuc{abc} will produce: Abc, \makefirstuc{\ae bc} will produce: Æbc, but \makefirstuc{\emph{abc}} will produce Abc. This is required by \Gls and \Glspl.

```
7249 \newif\if@glscls  
7250 \newtoks\@glsmfirst  
7251 \newtoks\@glsmrest  
7252 \newrobustcmd*\makefirstuc}[1]{%  
7253   \def\gls@argi{\#1}-%  
7254   \ifx\gls@argi\empty
```

If the argument is empty, do nothing.

```
7255   \else  
7256     \def\@gls@tmp{\ #1}-%  
7257     \onelevel@sanitize\@gls@tmp  
7258     \expandafter\gls@checkcs\@gls@tmp\relax\relax  
7259     \if@glscls
```

```

7260      \@gls@getbody #1{}@\nil
7261      \ifx@\gls@rest@\empty%
7262          \glsmakefirstuc{#1}%
7263      \else
7264          \expandafter\@gls@split\@gls@rest@\nil
7265          \ifx@\gls@first@\empty%
7266              \glsmakefirstuc{#1}%
7267          \else
7268              \expandafter\@glsmfirst\expandafter{\@gls@first}%
7269              \expandafter\@glsmrest\expandafter{\@gls@rest}%
7270              \edef@\gls@domfirstuc{\noexpand@gls@body
7271                  {\noexpand\glsmakefirstuc\the\@glsmfirst}%
7272                  \the\@glsmrest}%
7273              \@gls@domfirstuc
7274          \fi
7275      \fi
7276  \else
7277      \glsmakefirstuc{#1}%
7278  \fi
7279 \fi
7280 }

```

Put first argument in \@gls@first and second argument in \@gls@rest:

```

7281 \def@\gls@split#1#2@\nil{%
7282   \def@\gls@first{#1}\def@\gls@rest{#2}%
7283 }

7284 \def@\gls@checkcs#1 #2#3\relax{%
7285   \def@\gls@argi{#1}\def@\gls@argii{#2}%
7286   \ifx@\gls@argi@\gls@argii
7287       \@glscstrue
7288   \else
7289       \@glscsfals
7290   \fi
7291 }

```

\@gls@makefirstuc Make first thing upper case:

```
7292 \def@\gls@makefirstuc#1{\mfirstucMakeUppercase #1}
```

\mfirstucMakeUppercase Allow user to replace \MakeUppercase with another case changing command.

```
7293 \newcommand*{\mfirstucMakeUppercase}{\MakeUppercase}
```

\glsmakefirstuc Provide a user command to make it easier to customise.

```
7294 \newcommand*{\glsmakefirstuc}[1]{\@gls@makefirstuc{#1}}
```

Get the first grouped argument and store in \@gls@body.

```
7295 \def@\gls@getbody#1{\def@\gls@body{#1}\@gls@gobbletonil}
```

Scoup up everything to \@nil and store in \@gls@rest:

```
7296 \def@\gls@gobbletonil#1@\nil{\def@\gls@rest{#1}}
```

\xmakefirstuc Expand argument once before applying \makefirstuc (added v1.01).

```
7297 \newcommand*{\xmakefirstuc}[1]{%
7298 \expandafter\makefirstuc\expandafter{#1}}
```

\capitalisewords Capitalise each word in the argument. Words are considered to be separated by plain spaces (i.e. non-breakable spaces won't be considered a word break).

```
7299 \newrobustcmd*{\capitalisewords}[1]{%
7300   \def\gls@add@space{}%
7301   \let\@mfu@domakefirstuc\makefirstuc
7302   \let\@mfu@checkword\@gobble
7303   \mfu@capitalisewords#1 \@nil\mfu@endcap
7304 }%
7305 \def\mfu@capitalisewords#1 #2\mfu@endcap{%
7306   \def\mfu@cap@first{#1}%
7307   \def\mfu@cap@second{#2}%
7308   \gls@add@space
7309   \@mfu@checkword{#1}%
7310   \@mfu@domakefirstuc{#1}%
7311   \def\gls@add@space{ }%
7312   \ifx\mfu@cap@second\@nnil
7313     \let\next@\mfu@cap\mfu@noop
7314   \else
7315     \let\next@\mfu@cap\mfu@capitalisewords
7316     \let\@mfu@checkword\mfu@checkword
7317   \fi
7318   \next@\cap#2\mfu@endcap
7319 }%
7320 \def\mfu@noop#1\mfu@endcap{}
```

\mfu@checkword Check if word should be capitalised.

```
7321 \newcommand*\mfu@checkword[1]{%
7322   \ifinlist{#1}{\@mfu@nocaplist}%
7323   {%
7324     \let\@mfu@domakefirstuc\@firstofone
7325   }%
7326   {%
7327     \let\@mfu@domakefirstuc\makefirstuc
7328   }%
7329 }
```

\@mfu@nocaplist List of words that shouldn't be capitalised.

```
7330 \newcommand*{\@mfu@nocaplist}{}%
```

\MFUnocap Provide the user with a means to add a word to the list.

```
7331 \newcommand*{\MFUnocap}[1]{\listadd{\@mfu@nocaplist}{#1}}
```

\gMFUnocap Global version.

```
7332 \newcommand*{\gMFUnocap}[1]{\listgadd{\@mfu@nocaplist}{#1}}
```

```
\MFUclear Clear the list  
7333 \newcommand*\{\MFUclear\}{\renewcommand*\{@mfu@nocaplist\}{}}
```

\xcapitalisewords Short-cut command:

```
7334 \newcommand*\{\xcapitalisewords\}[1]{%  
7335   \expandafter\xcapitalisewords\expandafter{\#1}%  
7336 }
```

4 Mfirstuc-english Documented Code

```
7337 \NeedsTeXFormat{LaTeX2e}  
7338 \ProvidesPackage{mfirstuc-english}[2014/07/30 v1.0 (NLCT)]
```

Load mfirstuc if not already loaded:

```
7339 \RequirePackage{mfirstuc}
```

Add no-cap words. (List isn't a complete list.)

```
7340 \MFUnocap{a}  
7341 \MFUnocap{an}  
7342 \MFUnocap{and}  
7343 \MFUnocap{but}  
7344 \MFUnocap{for}  
7345 \MFUnocap{in}  
7346 \MFUnocap{of}  
7347 \MFUnocap{or}  
7348 \MFUnocap{no}  
7349 \MFUnocap{nor}  
7350 \MFUnocap{so}  
7351 \MFUnocap{some}  
7352 \MFUnocap{the}  
7353 \MFUnocap{with}  
7354 \MFUnocap{yet}
```

5 Glossary Styles

5.1 Glossary hyper-navigation definitions (glossary-hypernav package)

Package Definition:

```
7355 \ProvidesPackage{glossary-hypernav}[2013/11/14 v4.0 (NLCT)]
```

The commands defined in this package are provided to help navigate around the groups within a glossary (see [subsection 1.15.](#)) `\printglossary` (and `\printglossaries`) set `\@glo@type` to the label of the current glossary. This is used to create a unique hypertarget in the event of multiple glossaries.

```
\glsnavhyperlink[<type>]{<label>}{<text>}
```

This command makes `<text>` a hyperlink to the glossary group whose label is given by `<label>` for the glossary given by `<type>`.

```
\glsnavhyperlink
7356 \newcommand*{\glsnavhyperlink}[3][\@glo@type]{%
7357   \edef\gls@grplabel{\#2}\protected@edef\@gls@grptitle{\#3}%
7358   \glslink{glsn:#1@\#2}{\#3}}
```

`\glsnavhypertarget [⟨type⟩] {⟨label⟩} {⟨text⟩}`

This command makes `⟨text⟩` a hypertarget for the glossary group whose label is given by `⟨label⟩` in the glossary given by `⟨type⟩`. If `⟨type⟩` is omitted, `\@glo@type` is used which is set by `\printglossary` to the current glossary label.

```
\glsnavhypertarget
7359 \newcommand*{\glsnavhypertarget}[3][\@glo@type]{%
  Add this group to the aux file for re-run check.
7360   \protected@write\@auxout{}{\string\@gls@hypergroup{\#1}{\#2}}%
  Add the target.
7361   \glisttarget{glsn:#1@\#2}{\#3}%
  Check list of known groups to determine if a re-run is required.
7362   \expandafter\let
7363     \expandafter\@gls@list\csname @gls@hypergrouplist@\#1\endcsname
  Iterate through list and terminate loop if this group is found.
7364   \cfor\@gls@elem:=\@gls@list\do{%
7365     \ifthenelse{\equal{\@gls@elem}{\#2}}{\endfortrue}{}}%
  Check if list terminated prematurely.
7366   \if@endfor
7367   \else
  This group was not included in the list, so issue a warning.
7368   \GlossariesWarningNoLine{Navigation panel
7369     for glossary type '#1' Jmissing group '#2'}%
7370   \gdef\gls@hypergroupprerun{%
7371     \GlossariesWarningNoLine{Navigation panel
7372       has changed. Rerun LaTeX}}%
7373   \fi
7374 }
```

`\gls@hypergroupprerun` Give a warning at the end if re-run required

```
7375 \let\gls@hypergroupprerun\relax
7376 \AtEndDocument{\gls@hypergroupprerun}
```

`\@gls@hypergroup` This adds to (or creates) the command `\@gls@hypergrouplist@⟨glossary type⟩` which lists all groups for a given glossary, so that the navigation bar only contains those groups that are present. However it requires at least 2 runs to ensure the information is up-to-date.

```
7377 \newcommand*{\@gls@hypergroup}[2]{%
```

```

7378 \ifundefined{@gls@hypergrouplist@#1}{%
7379   \expandafter\xdef\csname @gls@hypergrouplist@#1\endcsname{#2}%
7380 }{%
7381   \expandafter\let\expandafter\@gls@tmp
7382     \csname @gls@hypergrouplist@#1\endcsname
7383   \expandafter\xdef\csname @gls@hypergrouplist@#1\endcsname{%
7384     \@gls@tmp,#2}%
7385 }%
7386 }

```

The `\glsnavigation` command displays a simple glossary group navigation. The symbol and number elements are defined separately, so that they can be suppressed if need be. Note that this command will produce a link to all 28 groups, but some groups may not be defined if there are groups that do not contain any terms, in which case you will get an undefined hyperlink warning. Now for the whole navigation bit:

```

\glsnavigation
7387 \newcommand*{\glsnavigation}{%
7388 \def\@gls@between{}%
7389 \ifundefined{@gls@hypergrouplist@\@glo@type}{%
7390   \def\@gls@list{}%
7391 }{%
7392   \expandafter\let\expandafter\@gls@list
7393     \csname @gls@hypergrouplist@\@glo@type\endcsname
7394 }%
7395 \for\@gls@tmp:=\@gls@list\do{%
7396   \@gls@between
7397   \@gls@getgrptitle{\@gls@tmp}{\@gls@grptitle}%
7398   \glsnavhyperlink{\@gls@tmp}{\@gls@grptitle}%
7399   \let\@gls@between\glshypernavsep%
7400 }%
7401 }

```

`\glshypernavsep` Separator for the hyper navigation bar.

```
7402 \newcommand*{\glshypernavsep}{\space\textbar\space}
```

The `\glssymbolnav` produces a simple navigation set of links for just the symbol and number groups. This used to be used at the start of `\glsnavigation`. This command is no longer needed.

```

\glssymbolnav
7403 \newcommand*{\glssymbolnav}{%
7404 \glsnavhyperlink{glssymbols}{\glsgetgrptitle{glssymbols}}%
7405 \glshypernavsep
7406 \glsnavhyperlink{glsnumbers}{\glsgetgrptitle{glsnumbers}}%
7407 \glshypernavsep
7408 }

```

5.2 In-line Style (*glossary-inline.sty*)

This defines an in-line style where the entries are comma-separated with just the name and description displayed.

```
7409 \ProvidesPackage{glossary-inline}[2013/11/14 v4.0 (NLCT)]
```

inline Define the inline style.

```
7410 \newglossarystyle{inline}{%
```

Start of glossary sets up first empty separator between entries. (This is then changed by \glossentry)

```
7411   \renewenvironment{theglossary}{%
7412     {%
7413       \def\gls@inlinesep{}%
7414       \def\gls@inlinesubsep{}%
7415       \def\gls@inlinepostchild{}%
7416     }%
7417     {\glspostinline}%
}
```

No header:

```
7418 \renewcommand*{\glossaryheader}{}%
```

No group headings (if heading is required, add \glsinlinedopostchild to start definition in case heading follows a child entry):

```
7419 \renewcommand*{\glsgroupheading}[1]{}%
```

Just display separator followed by name and description:

```
7420 \renewcommand{\glossentry}[2]{%
7421   \glsinlinedopostchild
7422   \gls@inlinesep
7423   \glsentryitem{##1}%
7424   \glsinlinenameformat{##1}{%
7425     \glossentryname{##1}%
7426   }%
7427   \ifglsdescsuppressed{##1}%
7428   {%
7429     \glsinlineemptydescformat
7430     {%
7431       \glossentrysymbol{##1}%
7432     }%
7433     {%
7434       ##2%
7435     }%
7436   }%
7437   {%
7438     \ifglshasdesc{##1}%
7439     {\glsinlinedescformat{\glossentrydesc{##1}}{\glossentrysymbol{##1}}{##2}%
7440     {\glsinlineemptydescformat{\glossentrysymbol{##1}}{##2}}%
7441   }%
7442   \ifglshaschildren{##1}%
}
```

```

7443      {%
7444          \glsresetsubentrycounter
7445          \glsinlineparentchildseparator
7446          \def\gls@inlinesubsep{}%
7447          \def\gls@inlinepostchild{\glsinlinepostchild}%
7448      }%
7449      {}%
7450      \def\gls@inlinesep{\glsinlineseparator}%
7451  }%

    Sub-entries display description:
7452  \renewcommand{\subglossentry}[3]{%
7453      \gls@inlinesubsep%
7454      \glsinlinesubnameformat{##2}{%
7455          \glossentryname{##2}}%
7456      \glssubentryitem{##2}%
7457      \glsinlinesubdescformat{\glossentrydesc{##2}}{\glossentrysymbol{##2}}{##3}%
7458      \def\gls@inlinesubsep{\glsinlinesubseparator}%
7459  }%

    Nothing special between groups:
7460  \renewcommand*\glsgroupskip{}%
7461 }

\glsinlinedopostchild
7462 \newcommand*\glsinlinedopostchild{}%
7463     \gls@inlinepostchild
7464     \def\gls@inlinepostchild{}%
7465 }

\glsinlineseparator Separator to use between entries.
7466 \newcommand*\glsinlineseparator{; \space}

\glsinlinesubseparator Separator to use between sub-entries.
7467 \newcommand*\glsinlinesubseparator{, \space}

\glsparentchildseparator Separator to use between parent and children.
7468 \newcommand*\glsinlineparentchildseparator{:\space}

\glsinlinepostchild Hook to use between child and next entry
7469 \newcommand*\glsinlinepostchild{}

\glspostinline Terminator for inline glossary.
7470 \newcommand*\glspostinline{\glspostdescription\space}

\glsinlinenameformat Formats the name of the entry (first argument label, second argument name):
7471 \newcommand*\glsinlinenameformat[2]{\glostarget{#1}{#2} }

\glsinlinedescformat Formats the entry's description, symbol and location list:
7472 \newcommand*\glsinlinedescformat[3]{\space#1}

```

`lineemptydescformat` Formats the entry's symbol and location list when the description is empty:

```
7473 \newcommand*{\glsinlinemptydescformat}[2]{}
```

`inlinesubnameformat` Formats the name of the subentry (first argument label, second argument name):

```
7474 \newcommand*{\glsinlinesubnameformat}[2]{\glstarget{#1}{}}
```

`inlinesubdescformat` Formats the subentry's description, symbol and location list:

```
7475 \newcommand*{\glsinlinesubdescformat}[3]{#1}
```

5.3 List Style (`glossary-list.sty`)

The style file defines glossary styles that use the `description` environment. Note that since the entry name is placed in the optional argument to the `\item` command, it will appear in a bold font by default.

```
7476 \ProvidesPackage{glossary-list}[2013/11/14 v4.0 (NLCT)]
```

`list` The list glossary style uses the `description` environment. The group separator `\glsgroupskip` is redefined as `\indexspace` which produces a gap between groups. The glossary heading and the group headings do nothing. Sub-entries immediately follow the main entry without the sub-entry name. This style does not use the entry's symbol. This is used as the default style for the `glossaries` package.

```
7477 \newglossarystyle{list}{%
```

 Use `description` environment:

```
7478 \renewenvironment{theglossary}%
7479 {\begin{description}}{\end{description}}%
```

 No header at the start of the environment:

```
7480 \renewcommand*{\glossaryheader}{}%
```

 No group headings:

```
7481 \renewcommand*{\glsgroupheading}[1]{}
```

 Main (level 0) entries start a new item in the list:

```
7482 \renewcommand*{\glossentry}[2]{%
7483 \item[\glsentryitem{##1}%
7484 \glstarget{##1}{\glossentryname{##1}}]%
7485 \glossentrydesc{##1}\glspostdescription\space ##2}%

```

 Sub-entries continue on the same line:

```
7486 \renewcommand*{\subglossentry}[3]{%
7487 \glssubentryitem{##2}%
7488 \glstarget{##2}{\strut}%
7489 \glossentrydesc{##2}\glspostdescription\space ##3.}%
7490 \% \end{macrocode}
7491 \% Add vertical space between groups:
7492 \% \changes{3.03}{2012/09/21}{added check for \glsnogroupskip}
```

```
7493 \% \begin{macrocode}
7494   \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else\indexspace\fi}%
7495 }
```

listgroup The `listgroup` style is like the `list` style, but the glossary groups have headings.

```
7496 \newglossarystyle{listgroup}{%
```

Base it on the `list` style:

```
7497   \setglossarystyle{list}{%
```

Each group has a heading:

```
7498   \renewcommand*{\glsgroupheading}[1]{\item[\glsgetgrouptitle{##1}]}}
```

listhypergroup The `listhypergroup` style is like the `listgroup` style, but has a set of links to the groups at the start of the glossary.

```
7499 \newglossarystyle{listhypergroup}{%
```

Base it on the `list` style:

```
7500   \setglossarystyle{list}{%
```

Add navigation links at the start of the environment:

```
7501   \renewcommand*{\glossaryheader}{%
```

```
7502     \item[\glsnavigation]}
```

Each group has a heading with a hypertarget:

```
7503   \renewcommand*{\glsgroupheading}[1]{%
```

```
7504     \item[\glsnavhypertarget{##1}{\glsgetgrouptitle{##1}}]}
```

altlist The `altlist` glossary style is like the `list` style, but places the description on a new line. Sub-entries follow in separate paragraphs without the sub-entry name. This style does not use the entry's symbol.

```
7505 \newglossarystyle{altlist}{%
```

Base it on the `list` style:

```
7506   \setglossarystyle{list}{%
```

Main (level 0) entries start a new item in the list with a line break after the entry name:

```
7507   \renewcommand*{\glossentry}[2]{%
```

```
7508     \item[\glsentryitem{##1}]
```

```
7509       \glostarget{##1}{\glossentryname{##1}}}
```

Version 3.04 changed `\newline` to the following paragraph break stuff (thanks to Daniel Gebhardt for supplying the fix) to prevent a page break occurring at this point.

```
7510       \mbox{} \par \nobreak \afterheading
```

```
7511       \glossentrydesc{##1} \glspostdescription \space ##2} %
```

Sub-entries start a new paragraph:

```
7512   \renewcommand{\subglossentry}[3]{%
```

```
7513     \par
```

```
7514     \glssubentryitem{##2}}
```

```
7515     \glstarget{##2}{\strut}\glossentrydesc{##2}\glspostdescription\space ##3}%
7516 }
```

altlistgroup The altlistgroup glossary style is like the altlist style, but the glossary groups have headings.

```
7517 \newglossarystyle{altlistgroup}{%
```

Base it on the altlist style:

```
7518 \setglossarystyle{altlist}{%
```

Each group has a heading:

```
7519 \renewcommand*\glsgroupheading}[1]{\item[\glsgetgrouptitle{##1}]}}
```

altlisthypergroup The altlisthypergroup glossary style is like the altlistgroup style, but has a set of links to the groups at the start of the glossary.

```
7520 \newglossarystyle{altlisthypergroup}{%
```

Base it on the altlist style:

```
7521 \setglossarystyle{altlist}{%
```

Add navigation links at the start of the environment:

```
7522 \renewcommand*\glossaryheader}{%
```

```
7523 \item[\glsnavigation]}
```

Each group has a heading with a hypertarget:

```
7524 \renewcommand*\glsgroupheading}[1]{%
```

```
7525 \item[\glsnavhypertarget{##1}{\glsgetgrouptitle{##1}}]}
```

listdotted The listdotted glossary style was supplied by Axel Menzel. I've modified it slightly so that the distance from the start of the name to the end of the dotted line is specified by `\glslistdottedwidth`. Note that this style ignores the page numbers as well as the symbol. Sub-entries are displayed in the same way as top-level entries.

```
7526 \newglossarystyle{listdotted}{%
```

Base it on the list style:

```
7527 \setglossarystyle{list}{%
```

Each main (level 0) entry starts a new item:

```
7528 \renewcommand*\glossentry}[2]{%
```

```
7529 \item[]\makebox[\glslistdottedwidth][1]{%
```

```
7530 \glsentryitem{##1}%
```

```
7531 \glstarget{##1}{\glossentryname{##1}}%
```

```
7532 \unskip\leaders\hbox to 2.9mm{\hss.}\hfill\strut}\glossentrydesc{##1}%%
```

Sub entries have the same format as main entries:

```
7533 \renewcommand*\subglossentry}[3]{%
```

```
7534 \item[]\makebox[\glslistdottedwidth][1]{%
```

```
7535 \glssubentryitem{##2}%
```

```
7536 \glstarget{##2}{\glossentryname{##2}}%
```

```
7537 \unskip\leaders\hbox to 2.9mm{\hss.}\hfill\strut}\glossentrydesc{##2}%%
```

```
7538 }
```

```

\glslistdottedwidth
7539 \newlength\glslistdottedwidth
7540 \setlength{\glslistdottedwidth}{.5\hsize}

sublistdotted This style is similar to the glostylelistdotted style, except that the main entries just have the name displayed.
7541 \newglossarystyle{sublistdotted}{%
    Base it on the listdotted style:
7542     \setglossarystyle{listdotted}%
    Main (level 0) entries just display the name:
7543     \renewcommand*{\glossentry}[2]{%
7544         \item[\glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}}]%
7545     }

```

5.4 Glossary Styles using longtable (the glossary-long package)

The glossary styles defined in the package used the `longtable` environment in the glossary.

```

7546 \ProvidesPackage{glossary-long}[2013/11/14 v4.0 (NLCT)]
    Requires the package:
7547 \RequirePackage{longtable}

\glsdescwidth This is a length that governs the width of the description column. (There's a chance that the user may specify nolong and then load later, in which case \glsdescwidth may have already been defined by .. The same goes for \glspagelistwidth.)
7548 \@ifundefined{glsdescwidth}{%
7549     \newlength\glsdescwidth
7550     \setlength{\glsdescwidth}{0.6\hsize}
7551 }

```

```

\glspagelistwidth This is a length that governs the width of the page list column.
7552 \@ifundefined{glspagelistwidth}{%
7553     \newlength\glspagelistwidth
7554     \setlength{\glspagelistwidth}{0.1\hsize}
7555 }

```

long The `long` glossary style command which uses the `longtable` environment:

```

7556 \newglossarystyle{long}{%
    Use longtable with two columns:
7557     \renewenvironment{theglossary}{%
7558         {\begin{longtable}{lp{\glsdescwidth}}}}{%
7559             {\end{longtable}}}
    Do nothing at the start of the environment:
7560     \renewcommand*{\glossaryheader}{}

```

No heading between groups:

```
7561 \renewcommand*{\glsgroupheading}[1]{}
```

Main (level 0) entries displayed in a row:

```
7562 \renewcommand{\glossentry}[2]{%
7563   \glstarget{\#1}{\glossentryname{\#1}} &
7564   \glossentrydesc{\#1}\glspostdescription\space ##2\tabularnewline
7565 }
```

Sub entries displayed on the following row without the name:

```
7566 \renewcommand{\subglossentry}[3]{%
7567   &
7568   \glssubentryitem{\#2}%
7569   \glstarget{\#2}{\strut}\glossentrydesc{\#2}\glspostdescription\space
7570   ##3\tabularnewline
7571 }
```

Blank row between groups:

```
7572 \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else &
7573 \tabularnewline\fi}%
7574 }
```

longborder The longborder style is like the above, but with horizontal and vertical lines:

```
7575 \newglossarystyle{longborder}{%
```

Base it on the `glostylelong` style:

```
7576 \setglossarystyle{long}{%
```

Use `longtable` with two columns with vertical lines between each column:

```
7577 \renewenvironment{theglossary}{%
7578   \begin{longtable}{|l|p{\glsdescwidth}|}}{\end{longtable}}
```

Place horizontal lines at the head and foot of the table:

```
7579 \renewcommand*{\glossaryheader}{\hline\endhead\hline\endfoot}%
7580 }
```

longheader The longheader style is like the long style but with a header:

```
7581 \newglossarystyle{longheader}{%
```

Base it on the `glostylelong` style:

```
7582 \setglossarystyle{long}{%
```

Set the table's header:

```
7583 \renewcommand*{\glossaryheader}{%
7584   \bfseries \entryname & \bfseries \descriptionname\tabularnewline\endhead}%
7585 }
```

longheaderborder The longheaderborder style is like the long style but with a header and border:

```
7586 \newglossarystyle{longheaderborder}{%
```

Base it on the `glostylelongborder` style:

```
7587 \setglossarystyle{longborder}{%
```

Set the table's header and add horizontal line to table's foot:

```
7588 \renewcommand*\glossaryheader{%
7589   \hline\bfseries \entryname & \bfseries
7590   \descriptionname\tabularnewline\hline
7591   \endhead
7592   \hline\endfoot}%
7593 }
```

long3col The **long3col** style is like **long** but with 3 columns

```
7594 \newglossarystyle{long3col}{%
```

Use a **longtable** with 3 columns:

```
7595 \renewenvironment{theglossary}{%
7596   {\begin{longtable}{lp{\glscdescwidth}p{\glspagelistwidth}}}}%
7597   {\end{longtable}}}
```

No table header:

```
7598 \renewcommand*\glossaryheader{}%
```

No headings between groups:

```
7599 \renewcommand*\glsgroupheading[1]{}%
```

Main (level 0) entries on a row (name in first column, description in second column, page list in last column):

```
7600 \renewcommand{\glossentry}[2]{%
7601   \glstarget{\#1}\glisttarget{\#1}{\glossentryname{\#1}} &
7602   \glossentrydesc{\#1} & \#2\tabularnewline
7603 }%
```

Sub-entries on a separate row (no name, description in second column, page list in third column):

```
7604 \renewcommand{\subglossentry}[3]{%
7605   &
7606   \glssubentryitem{\#2}%
7607   \glstarget{\#2}{\strut}\glossentrydesc{\#2} &
7608   \#3\tabularnewline
7609 }%
```

Blank row between groups:

```
7610 \renewcommand*\glsgroupskip{}%
7611 \ifglsnogroupskip\else & \tabularnewline\fi}%
7612 }
```

long3colborder The **long3colborder** style is like the **long3col** style but with a border:

```
7613 \newglossarystyle{long3colborder}{%
```

Base it on the **glostylelong3col** style:

```
7614 \setglossarystyle{long3col}{}
```

Use a **longtable** with 3 columns with vertical lines around them:

```
7615 \renewenvironment{theglossary}{%
7616   {\begin{longtable}{|l|p{\glscdescwidth}|p{\glspagelistwidth}|}}%
7617   {\end{longtable}}}
```

Place horizontal lines at the head and foot of the table:

```
7618 \renewcommand*\glossaryheader{\hline\endhead\hline\endfoot}%
7619 }
```

long3colheader The **long3colheader** style is like **long3col** but with a header row:

```
7620 \newglossarystyle{long3colheader}{%
```

Base it on the **glostylelong3col** style:

```
7621 \setglossarystyle{long3col}{%
```

Set the table's header:

```
7622 \renewcommand*\glossaryheader{%
7623   \bfseries\entryname&\bfseries\descriptionname&
7624   \bfseries\pagelistname\tabularnewline\endhead}%
7625 }
```

long3colheaderborder The **long3colheaderborder** style is like the above but with a border

```
7626 \newglossarystyle{long3colheaderborder}{%
```

Base it on the **glostylelong3colborder** style:

```
7627 \setglossarystyle{long3colborder}{%
```

Set the table's header and add horizontal line at table's foot:

```
7628 \renewcommand*\glossaryheader{%
7629   \hline
7630   \bfseries\entryname&\bfseries\descriptionname&
7631   \bfseries\pagelistname\tabularnewline\hline\endhead
7632   \hline\endfoot}%
7633 }
```

long4col The **long4col** style has four columns where the third column contains the value of the associated symbol key.

```
7634 \newglossarystyle{long4col}{%
```

Use a **longtable** with 4 columns:

```
7635 \renewenvironment{theglossary}{%
7636   {\begin{longtable}{llll}}%
7637   {\end{longtable}}}%
```

No table header:

```
7638 \renewcommand*\glossaryheader{}%
```

No group headings:

```
7639 \renewcommand*\glsgrouthead{[1]}{}
```

Main (level 0) entries on a single row (name in first column, description in second column, symbol in third column, page list in last column):

```
7640 \renewcommand{\glossentry}[2]{%
7641   \glsentryitem{##1}\glsentrydesc{##1}{\glossentryname{##1}} &
7642   \glossentrydesc{##1} &
7643   \glossentrysymbol{##1} &
7644   ##2\tabularnewline
7645 }
```

Sub entries on a single row with no name (description in second column, symbol in third column, page list in last column):

```
7646 \renewcommand{\subglossentry}[3]{%
7647   &
7648   \glssubentryitem{##2}%
7649   \glstarget{##2}{\strut}\glossentrydesc{##2} &
7650   \glossentrysymbol{##2} & ##3\tabularnewline
7651 }%
```

Blank row between groups:

```
7652 \renewcommand*{\glsgroupskip}{%
7653   \ifglsnogroupskip\else & & &\tabularnewline\fi}%
7654 }
```

long4colheader The `long4colheader` style is like `long4col` but with a header row.

```
7655 \newglossarystyle{long4colheader}{%
```

Base it on the `glostylelong4col` style:

```
7656 \setglossarystyle{long4col}{%
```

Table has a header:

```
7657 \renewcommand*{\glossaryheader}{%
7658   \bfseries\entryname\bfseries\descriptionname&
7659   \bfseries \symbolname&
7660   \bfseries\pagelistname\tabularnewline\endhead}%
7661 }
```

long4colborder The `long4colborder` style is like `long4col` but with a border.

```
7662 \newglossarystyle{long4colborder}{%
```

Base it on the `glostylelong4col` style:

```
7663 \setglossarystyle{long4col}{%
```

Use a `longtable` with 4 columns surrounded by vertical lines:

```
7664 \renewenvironment{theglossary}%
7665   {\begin{longtable}{|l|l|l|l|}}%
7666   {\end{longtable}}%
```

Add horizontal lines to the head and foot of the table:

```
7667 \renewcommand*{\glossaryheader}{\hline\endhead\hline\endfoot}%
7668 }
```

long4colheaderborder The `long4colheaderborder` style is like the above but with a border.

```
7669 \newglossarystyle{long4colheaderborder}{%
```

Base it on the `glostylelong4col` style:

```
7670 \setglossarystyle{long4col}{%
```

Use a `longtable` with 4 columns surrounded by vertical lines:

```
7671 \renewenvironment{theglossary}%
7672   {\begin{longtable}{|l|l|l|l|}}%
7673   {\end{longtable}}%
```

Add table header and horizontal line at the table's foot:

```
7674 \renewcommand*\glossaryheader{%
7675   \hline\bfseries\entryname\&\bfseries\descriptionname&
7676   \bfseries\symbolname\&
7677   \bfseries\pagelistname\tabularnewline\hline\endhead
7678   \hline\endfoot}%
7679 }
```

altnlong4col The altnlong4col style is like the long4col style but can have multiline descriptions and page lists.

```
7680 \newglossarystyle{altnlong4col}{%
```

Base it on the glostylelong4col style:

```
7681 \setglossarystyle{long4col}{%
```

Use a longtable with 4 columns where the second and last columns may have multiple lines in each row:

```
7682 \renewenvironment{theglossary}{%
7683   {\begin{longtable}{lp{\glsdescwidth}lp{\glspagelistwidth}}}{%
7684     {\end{longtable}}}{%
7685 }
```

altnlong4colheader The altnlong4colheader style is like altnlong4col but with a header row.

```
7686 \newglossarystyle{altnlong4colheader}{%
```

Base it on the glostylelong4colheader style:

```
7687 \setglossarystyle{long4colheader}{%
```

Use a longtable with 4 columns where the second and last columns may have multiple lines in each row:

```
7688 \renewenvironment{theglossary}{%
7689   {\begin{longtable}{lp{\glsdescwidth}lp{\glspagelistwidth}}}{%
7690     {\end{longtable}}}{%
7691 }
```

altnlong4colborder The altnlong4colborder style is like altnlong4col but with a border.

```
7692 \newglossarystyle{altnlong4colborder}{%
```

Base it on the glostylelong4colborder style:

```
7693 \setglossarystyle{long4colborder}{%
```

Use a longtable with 4 columns where the second and last columns may have multiple lines in each row:

```
7694 \renewenvironment{theglossary}{%
7695   {\begin{longtable}{|l|p{\glsdescwidth}|l|p{\glspagelistwidth}|}}}{%
7696   {\end{longtable}}}{%
7697 }
```

long4colheaderborder The altnlong4colheaderborder style is like the above but with a header as well as a border.

```
7698 \newglossarystyle{altnlong4colheaderborder}{%
```

Base it on the `glostylelong4colheaderborder` style:

```
7699 \setglossarystyle{long4colheaderborder}%
```

Use a `longtable` with 4 columns where the second and last columns may have multiple lines in each row:

```
7700 \renewenvironment{theglossary}%
7701   {\begin{longtable}{|l|p{\glsdescwidth}|l|p{\glspagelistwidth}|}{}}
7702   {\end{longtable}}%
7703 }
```

5.5 Glossary Styles using `longtable` (the `glossary-longragged` package)

The glossary styles defined in the package used the `longtable` environment in the glossary and use ragged right formatting for the multiline columns.

```
7704 \ProvidesPackage{glossary-longragged}[2014/07/30 v4.08 (NLCT)]
```

Requires the package:

```
7705 \RequirePackage{array}
```

Requires the package:

```
7706 \RequirePackage{longtable}
```

`\glsdescwidth` This is a length that governs the width of the description column. This may have already been defined.

```
7707 \@ifundefined{glsdescwidth}%
7708   \newlength\glsdescwidth
7709   \setlength{\glsdescwidth}{0.6\hsize}
7710 }{}
```

`\glspagelistwidth` This is a length that governs the width of the page list column. This may already have been defined.

```
7711 \@ifundefined{glspagelistwidth}%
7712   \newlength\glspagelistwidth
7713   \setlength{\glspagelistwidth}{0.1\hsize}
7714 }{}
```

`longragged` The `longragged` glossary style is like the `long` but uses ragged right formatting for the description column.

```
7715 \newglossarystyle{longragged}{}%
```

Use `longtable` with two columns:

```
7716 \renewenvironment{theglossary}%
7717   {\begin{longtable}{l>{\raggedright}p{\glsdescwidth}}}%
7718   {\end{longtable}}%
```

Do nothing at the start of the environment:

```
7719 \renewcommand*\glossaryheader{}%
```

No heading between groups:

```
7720 \renewcommand*{\glsgroupheading}[1]{}
```

Main (level 0) entries displayed in a row:

```
7721 \renewcommand{\glossentry}[2]{%
7722   \glstarget{##1}\glsentryname{##1} &
7723   \glossentrydesc{##1}\glspostdescription\space ##2%
7724   \tabularnewline
7725 }
```

Sub entries displayed on the following row without the name:

```
7726 \renewcommand{\subglossentry}[3]{%
7727   &
7728   \glssubentryitem{##2}%
7729   \glstarget{##2}{\strut}\glossentrydesc{##2}%
7730   \glspostdescription\space ##3%
7731   \tabularnewline
7732 }
```

Blank row between groups:

```
7733 \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else & \tabularnewline\fi}%
7734 }
```

longraggedborder The longraggedborder style is like the above, but with horizontal and vertical lines:

```
7735 \newglossarystyle{longraggedborder}{%
```

Base it on the glostylelongragged style:

```
7736 \setglossarystyle{longragged}{%
```

Use longtable with two columns with vertical lines between each column:

```
7737 \renewenvironment{theglossary}{%
7738   \begin{longtable}{|l|>{\raggedright}p{\glsdescwidth}|}%
7739   \end{longtable}}
```

Place horizontal lines at the head and foot of the table:

```
7740 \renewcommand*{\glossaryheader}{\hline\endhead\hline\endfoot}%
7741 }
```

longraggedheader The longraggedheader style is like the longragged style but with a header:

```
7742 \newglossarystyle{longraggedheader}{%
```

Base it on the glostylelongragged style:

```
7743 \setglossarystyle{longragged}{%
```

Set the table's header:

```
7744 \renewcommand*{\glossaryheader}{%
7745   \bfseries \entryname & \bfseries \descriptionname
7746   \tabularnewline\endhead}%
7747 }
```

`raggedheaderborder` The `longraggedheaderborder` style is like the `longragged` style but with a header and border:

```
7748 \newglossarystyle{longraggedheaderborder}{%
```

Base it on the `glostylelongraggedborder` style:

```
7749 \setglossarystyle{longraggedborder}{%
```

Set the table's header and add horizontal line to table's foot:

```
7750 \renewcommand*\glossaryheader{%
7751   \hline\bfseries \entryname & \bfseries \descriptionname
7752   \tabularnewline\hline
7753   \endhead
7754   \hline\endfoot}%
7755 }
```

`longragged3col` The `longragged3col` style is like `longragged` but with 3 columns

```
7756 \newglossarystyle{longragged3col}{%
```

Use a `longtable` with 3 columns:

```
7757 \renewenvironment{theglossary}{%
7758   {\begin{longtable}{l>{\raggedright}p{\glsdescwidth}>{\raggedright}p{\glspagelistwidth}}}}%
7759   {\end{longtable}}%
```

No table header:

```
7761 \renewcommand*\glossaryheader{}%
```

No headings between groups:

```
7762 \renewcommand*\glsgroupheading[1]{}%
```

Main (level 0) entries on a row (name in first column, description in second column, page list in last column):

```
7763 \renewcommand{\glossentry}[2]{%
7764   \glsentryitem{##1}\glisttarget{##1}{\glossentryname{##1}} &
7765   \glossentrydesc{##1} & ##2\tabularnewline
7766 }%
```

Sub-entries on a separate row (no name, description in second column, page list in third column):

```
7767 \renewcommand{\subglossentry}[3]{%
7768   &
7769   \glssubentryitem{##2}%
7770   \glisttarget{##2}{\strut}\glossentrydesc{##2} &
7771   ##3\tabularnewline
7772 }%
```

Blank row between groups:

```
7773 \renewcommand*\glsgroupskip{}%
7774 \ifglsnogroupskip\else & \tabularnewline\fi}%
7775 }
```

ongragged3colborder The longragged3colborder style is like the longragged3col style but with a border:

```
7776 \newglossarystyle{longragged3colborder}{%
```

Base it on the glostylelongragged3col style:

```
7777 \setglossarystyle{longragged3col}{%
```

Use a longtable with 3 columns with vertical lines around them:

```
7778 \renewenvironment{theglossary}{%
7779   {\begin{longtable}{|l|>{\raggedright}p{\glsdescwidth}|%
7780     >{\raggedright}p{\glspagelistwidth}|}}%
7781   {\end{longtable}}{}}
```

Place horizontal lines at the head and foot of the table:

```
7782 \renewcommand*\glossaryheader{\hline\endhead\hline\endfoot}%
7783 }
```

ongragged3colheader The longragged3colheader style is like longragged3col but with a header row:

```
7784 \newglossarystyle{longragged3colheader}{%
```

Base it on the glostylelongragged3col style:

```
7785 \setglossarystyle{longragged3col}{%
```

Set the table's header:

```
7786 \renewcommand*\glossaryheader{%
7787   \bfseries\entryname&\bfseries\descriptionname&
7788   \bfseries\pagelistname\tabularnewline\endhead}%
7789 }
```

ged3colheaderborder The longragged3colheaderborder style is like the above but with a border

```
7790 \newglossarystyle{longragged3colheaderborder}{%
```

Base it on the glostylelongragged3colborder style:

```
7791 \setglossarystyle{longragged3colborder}{%
```

Set the table's header and add horizontal line at table's foot:

```
7792 \renewcommand*\glossaryheader{%
7793   \hline
7794   \bfseries\entryname&\bfseries\descriptionname&
7795   \bfseries\pagelistname\tabularnewline\hline\endhead
7796   \hline\endfoot}%
7797 }
```

altnragged4col The altnragged4col style is like the altnragged4col style defined in the package, except that ragged right formatting is used for the description and page list columns.

```
7798 \newglossarystyle{altnragged4col}{%
```

Use a longtable with 4 columns where the second and last columns may have multiple lines in each row:

```
7799 \renewenvironment{theglossary}{%
```

```

7800   {\begin{longtable}{l>{\raggedright}p{\glsdescwidth}l%
7801     >{\raggedright}p{\glspagelistwidth}}}}%
7802   {\end{longtable}}}%
    No table header:
7803 \renewcommand*\glossaryheader{}%
    No group headings:
7804 \renewcommand*\glsgroupheading}[1]{%
    Main (level 0) entries on a single row (name in first column, description in second column, symbol in third column, page list in last column):
7805 \renewcommand{\glossentry}[2]{%
7806   \glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}} &
7807   \glossentrydesc{##1} & \glossentrysymbol{##1} &
7808   ##2\tabularnewline
7809 }%
    Sub entries on a single row with no name (description in second column, symbol in third column, page list in last column):
7810 \renewcommand{\subglossentry}[3]{%
7811   &
7812   \glssubentryitem{##2}%
7813   \glstarget{##2}{\strut}\glossentrydesc{##2} &
7814   \glossentrysymbol{##2} & ##3\tabularnewline
7815 }%
    Blank row between groups:
7816 \renewcommand*\glsgroupskip}{%
7817 \ifglsnogroupskip\else & & &\tabularnewline\fi}%
7818 }%

```

`ongragged4colheader` The `altnongragged4colheader` style is like `altnongragged4col` but with a header row.

```
7819 \newglossarystyle{altnongragged4colheader}{%
```

Base it on the `glostylealtnongragged4col` style:

```
7820 \setglossarystyle{altnongragged4col}{%
```

Use a `longtable` with 4 columns where the second and last columns may have multiple lines in each row:

```

7821 \renewenvironment{theglossary}{%
7822   {\begin{longtable}{l>{\raggedright}p{\glsdescwidth}l%
7823     >{\raggedright}p{\glspagelistwidth}}}}%
7824   {\end{longtable}}}%

```

Table has a header:

```

7825 \renewcommand*\glossaryheader{}%
7826 \bfseries\entryname&\bfseries\descriptionname&
7827 \bfseries \symbolname&
7828 \bfseries\pagelistname\tabularnewline\endhead}%
7829 }%

```

ongragged4colborder The `altnongragged4colborder` style is like `altnongragged4col` but with a border.

```
7830 \newglossarystyle{altnongragged4colborder}{%
```

Base it on the `glostylealtnongragged4col` style:

```
7831 \setglossarystyle{altnongragged4col}{%
```

Use a `longtable` with 4 columns where the second and last columns may have multiple lines in each row:

```
7832 \renewenvironment{theglossary}{%
7833   {\begin{longtable}{|l|>{\raggedright}p{\glsdescwidth}|l|%
7834     >{\raggedright}p{\glspagelistwidth}|}}%
7835   {\end{longtable}}%
```

Add horizontal lines to the head and foot of the table:

```
7836 \renewcommand*\glossaryheader{\hline\endhead\hline\endfoot}%
7837 }
```

ged4colheaderborder The `altnongragged4colheaderborder` style is like the above but with a header as well as a border.

```
7838 \newglossarystyle{altnongragged4colheaderborder}{%
```

Base it on the `glostylealtnongragged4col` style:

```
7839 \setglossarystyle{altnongragged4col}{%
```

Use a `longtable` with 4 columns where the second and last columns may have multiple lines in each row:

```
7840 \renewenvironment{theglossary}{%
7841   {\begin{longtable}{|l|>{\raggedright}p{\glsdescwidth}|l|%
7842     >{\raggedright}p{\glspagelistwidth}|}}%
7843   {\end{longtable}}%
```

Add table header and horizontal line at the table's foot:

```
7844 \renewcommand*\glossaryheader{%
7845   \hline\bfseries\entryname\&\bfseries\descriptionname\&
7846   \bfseries\symbolname\&
7847   \bfseries\pagelistname\tabularnewline\hline\endhead
7848   \hline\endfoot}%
7849 }
```

5.6 Glossary Styles using multicol (`glossary-mcols.sty`)

The style file defines glossary styles that use the `multicol` package. These use the tree-like glossary styles in a `multicol` environment.

```
7850 \ProvidesPackage{glossary-mcols}[2013/11/14 v4.0 (NLCT)]
```

Required packages:

```
7851 \RequirePackage{multicol}
```

```
7852 \RequirePackage{glossary-tree}
```

`\glsmcols` Define macro in which to store the number of columns. (Defaults to 2.)

```
7853 \newcommand*\glsmcols{2}
```

`mcolindex` Multi-column index style. Same as the index, but puts the glossary in multiple columns. (Ideally the glossary title should go in the optional argument of `multicols`, but the title isn't part of the glossary style.)

```
7854 \newglossarystyle{mcolindex}{%
7855   \setglossarystyle{index}%
7856   \renewenvironment{theglossary}%
7857   {}%
7858   \begin{multicols}{\glsmcols}%
7859     \setlength{\parindent}{0pt}%
7860     \setlength{\parskip}{0pt plus 0.3pt}%
7861     \let\item@\idxitem\%
7862   \end{multicols}%
7863 }
```

`mcolindexgroup` As `mcolindex` but has headings:

```
7864 \newglossarystyle{mcolindexgroup}{%
7865   \setglossarystyle{mcolindex}%
7866   \renewcommand*{\glsgrouphereading}[1]{%
7867     \item\textbf{\glsgetgrouptitle{##1}}\indexspace}%
7868 }
```

`mcolindexhypergroup` The `mcolindexhypergroup` style is like the `mcolindexgroup` style but has hyper navigation.

```
7869 \newglossarystyle{mcolindexhypergroup}{%
```

Base it on the `glostylemcolindex` style:

```
7870   \setglossarystyle{mcolindex}%
```

Put navigation links to the groups at the start of the glossary:

```
7871   \renewcommand*{\glossaryheader}{%
7872     \item\textbf{\glsnavigation}\indexspace}%
```

Add a heading for each group (with a target). The group's title is in bold followed by a vertical gap.

```
7873   \renewcommand*{\glsgrouphereading}[1]{%
7874     \item\textbf{\glsnavhypertarget{##1}{\glsgetgrouptitle{##1}}}\%
7875     \indexspace}%
7876 }
```

`moltree` Multi-column index style. Same as the tree, but puts the glossary in multiple columns.

```
7877 \newglossarystyle{moltree}{%
7878   \setglossarystyle{tree}%
7879   \renewenvironment{theglossary}%
7880   {}%
7881   \begin{multicols}{\glsmcols}%
7882     \setlength{\parindent}{0pt}%
7883     \setlength{\parskip}{0pt plus 0.3pt}%
7884 }
```

```
7884  }%
7885  {\end{multicols}}%
7886 }
```

`mcoltreegroup` Like the `mcoltree` style but the glossary groups have headings.

```
7887 \newglossarystyle{mcoltreegroup}{%
```

Base it on the `glostylemcoltree` style:

```
7888  \setglossarystyle{mcoltree}{%
```

Each group has a heading (in bold) followed by a vertical gap):

```
7889  \renewcommand{\glsgroupheading}[1]{\par
7890    \noindent\textbf{\glsgroupname}\par\indexspace}%
7891 }
```

`mcoltreehypergroup` The `mcoltreehypergroup` style is like the `treegroup` style, but has a set of links to the groups at the start of the glossary.

```
7892 \newglossarystyle{mcoltreehypergroup}{%
```

Base it on the `glostylemcoltree` style:

```
7893  \setglossarystyle{mcoltree}{%
```

Put navigation links to the groups at the start of the `theglossary` environment:

```
7894  \renewcommand*{\glossaryheader}{%
7895    \par\noindent\textbf{\glossaryheader}\par\indexspace}%
```

Each group has a heading (in bold with a target) followed by a vertical gap):

```
7896  \renewcommand*{\glsgroupheading}[1]{%
7897    \par\noindent
7898    \textbf{\glsgroupname}\hypertarget{\glsgroupname}{\glsgroupname}\par
7899    \indexspace}%
7900 }
```

`mcoltreenoname` Multi-column index style. Same as the `treenoname`, but puts the glossary in multiple columns.

```
7901 \newglossarystyle{mcoltreenoname}{%
7902  \setglossarystyle{treenoname}{%
7903  \renewenvironment{theglossary}{%
7904    {%
7905      \begin{multicols}{\glsmcols}
7906      \setlength{\parindent}{0pt}%
7907      \setlength{\parskip}{0pt plus 0.3pt}%
7908    }%
7909    {\end{multicols}}%
7910 }}
```

`mcoltreenonamegroup` Like the `mcoltreenoname` style but the glossary groups have headings.

```
7911 \newglossarystyle{mcoltreenonamegroup}{%
```

Base it on the `glostylemcoltreenoname` style:

```
7912  \setglossarystyle{mcoltreenoname}{%
```

Give each group a heading:

```
7913 \renewcommand{\glsgroupheading}[1]{\par
7914   \noindent\textbf{\glsgroupheading{##1}}\par\indexspace}%
7915 }
```

`mcoltreenonamehypergroup` The `mcoltreenonamehypergroup` style is like the `mcoltreenonamegroup` style, but has a set of links to the groups at the start of the glossary.

```
7916 \newglossarystyle{mcoltreenonamehypergroup}{%
```

Base it on the `glostylemcoltreenoname` style:

```
7917 \setglossarystyle{mcoltreenoname}{%
```

Put navigation links to the groups at the start of the `theglossary` environment:

```
7918 \renewcommand*{\glossaryheader}{%
7919   \par\noindent\textbf{\glsnavigation}\par\indexspace}%
```

Each group has a heading (in bold with a target) followed by a vertical gap:

```
7920 \renewcommand*{\glsgroupheading}[1]{%
7921   \par\noindent
7922   \textbf{\glsnavhypertarget{##1}{\glsgroupheading{##1}}}\par
7923   \indexspace}%
7924 }
```

`mcolalttree` Multi-column index style. Same as the `alttree`, but puts the glossary in multiple columns.

```
7925 \newglossarystyle{mcolalttree}{%
```

```
7926 \setglossarystyle{alttree}{%
```

```
7927 \renewenvironment{theglossary}{%
```

```
7928 {%
```

```
7929   \begin{multicols}{\glsmcols}
7930     \def\@gls@prevlevel{-1}%
7931     \mbox{}\par
7932   }%
7933   {\par\end{multicols}}%
7934 }
```

`mcolalttreegroup` Like the `mcolalttree` style but the glossary groups have headings.

```
7935 \newglossarystyle{mcolalttreegroup}{%
```

Base it on the `glostylemcolalttree` style:

```
7936 \setglossarystyle{mcolalttree}{%
```

Give each group a heading.

```
7937 \renewcommand{\glsgroupheading}[1]{\par
7938   \def\@gls@prevlevel{-1}%
7939   \hangindent0pt\relax
7940   \parindent0pt\relax
7941   \textbf{\glsgroupheading{##1}}\par\indexspace}%
7942 }
```

`\olalttreehypergroup` The `mcolalttreehypergroup` style is like the `mcolalttreegroup` style, but has a set of links to the groups at the start of the glossary.

```
7943 \newglossarystyle{mcolalttreehypergroup}{%
```

Base it on the `glostylemcolalttree` style:

```
7944 \setglossarystyle{mcolalttree}{%
```

Put the navigation links in the header

```
7945 \renewcommand*\glossaryheader{%
7946   \par
7947   \def\@gls@prevlevel{-1}%
7948   \hangindent0pt\relax
7949   \parindent0pt\relax
7950   \textbf{\glsnavigation}\par\indexspace}%
```

Put a hypertarget at the start of each group

```
7951 \renewcommand*\glsgroupheading[1]{%
7952   \par
7953   \def\@gls@prevlevel{-1}%
7954   \hangindent0pt\relax
7955   \parindent0pt\relax
7956   \textbf{\glsnavhypertarget{\#\#1}{\glsgetgrouptitle{\#\#1}}}\par
7957   \indexspace}}
```

5.7 Glossary Styles using supertabular environment (`glossary-super` package)

The glossary styles defined in the package use the `supertabular` environment.

```
7958 \ProvidesPackage{glossary-super}[2013/11/14 v4.0 (NLCT)]
```

Requires the package:

```
7959 \RequirePackage{supertabular}
```

`\glsdescwidth` This is a length that governs the width of the description column. This may already have been defined if has been loaded.

```
7960 \@ifundefined{glsdescwidth}{%
7961   \newlength\glsdescwidth
7962   \setlength{\glsdescwidth}{0.6\hsize}
7963 }{}
```

`\glspagelistwidth` This is a length that governs the width of the page list column. This may already have been defined if has been loaded.

```
7964 \@ifundefined{glspagelistwidth}{%
7965   \newlength\glspagelistwidth
7966   \setlength{\glspagelistwidth}{0.1\hsize}
7967 }{}
```

`super` The super glossary style uses the `supertabular` environment (it uses lengths defined in the package.)

```
7968 \newglossarystyle{super}{%
```

Put the glossary in a supertabular environment with two columns and no head or tail:

```
7969 \renewenvironment{theglossary}{%
7970   {\tablehead{}\tabletail{}%
7971   \begin{supertabular}{lp{\glsdescwidth}}}}%
7972   {\end{supertabular}}%
```

Do nothing at the start of the table:

```
7973 \renewcommand*{\glossaryheader}{}%
```

No group headings:

```
7974 \renewcommand*{\glsgroupheading}[1]{}%
```

Main (level 0) entries put in a row (name in first column, description and page list in second column):

```
7975 \renewcommand{\glossentry}[2]{%
7976   \glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}} &
7977   \glossentrydesc{##1}\glspostdescription\space ##2\tabularnewline
7978 }%
```

Sub entries put in a row (no name, description and page list in second column):

```
7979 \renewcommand{\subglossentry}[3]{%
7980   &
7981   \glssubentryitem{##2}%
7982   \glstarget{##2}{\strut}\glossentrydesc{##2}\glspostdescription\space
7983   ##3\tabularnewline
7984 }%
```

Blank row between groups:

```
7985 \renewcommand*{\glsgroupskip}{%
7986   \ifglsnogroupskip\else & \tabularnewline\fi}%
7987 }
```

superborder The superborder style is like the above, but with horizontal and vertical lines:

```
7988 \newglossarystyle{superborder}{%
```

Base it on the `glostylesuper` style:

```
7989 \setglossarystyle{super}%
```

Put the glossary in a supertabular environment with two columns and a horizontal line in the head and tail:

```
7990 \renewenvironment{theglossary}{%
7991   {\tablehead{\hline}\tabletail{\hline}}%
7992   \begin{supertabular}{|l|p{\glsdescwidth}|}}%
7993   {\end{supertabular}}%
7994 }
```

superheader The superheader style is like the `super` style, but with a header:

```
7995 \newglossarystyle{superheader}{%
```

Base it on the `glostylesuper` style:

```
7996 \setglossarystyle{super}%
```

Put the glossary in a `supertabular` environment with two columns, a header and no tail:

```
7997 \renewenvironment{theglossary}%
7998   {\tablehead{\bfseries \entryname &
7999     \bfseries \descriptionname\tabularnewline}%
8000   \tabletail{}%
8001   \begin{supertabular}{lp{\glsdescwidth}}{}%
8002   \end{supertabular}{}%
8003 }
```

`superheaderborder` The `superheaderborder` style is like the `super` style but with a header and border:

```
8004 \newglossarystyle{superheaderborder}{}%
```

Base it on the `glostylesuper` style:

```
8005 \setglossarystyle{super}%
```

Put the glossary in a `supertabular` environment with two columns, a header and horizontal lines above and below the table:

```
8006 \renewenvironment{theglossary}%
8007   {\tablehead{\hline\bfseries \entryname &
8008     \bfseries \descriptionname\tabularnewline\hline}%
8009   \tabletail{\hline}%
8010   \begin{supertabular}{|l|p{\glsdescwidth}|}{}%
8011   \end{supertabular}{}%
8012 }
```

`super3col` The `super3col` style is like the `super` style, but with 3 columns:

```
8013 \newglossarystyle{super3col}{}%
```

Put the glossary in a `supertabular` environment with three columns and no head or tail:

```
8014 \renewenvironment{theglossary}%
8015   {\tablehead{}\tabletail{}%
8016   \begin{supertabular}{lp{\glsdescwidth}p{\glspagelistwidth}}{}%
8017   \end{supertabular}{}%
```

Do nothing at the start of the table:

```
8018 \renewcommand*\glossaryheader{}%
```

No group headings:

```
8019 \renewcommand*\glsgroupheading[1]{}%
```

Main (level 0) entries on a row (name in first column, description in second column, page list in last column):

```
8020 \renewcommand{\glossentry}[2]{%
8021   \glsentryitem{##1}\glisttarget{##1}{\glossentryname{##1}} &
8022   \glossentrydesc{##1} & ##2\tabularnewline
8023 }%
```

Sub entries on a row (no name, description in second column, page list in last column):

```
8024 \renewcommand{\subglossentry}[3]{%
8025   &
8026   \glssubentryitem{##2}%
8027   \glstarget{##2}{\strut}\glossentrydesc{##2} &
8028   ##3\tabularnewline
8029 }%
```

Blank row between groups:

```
8030 \renewcommand*{\glsgroupskip}{%
8031   \ifglsnogroupskip\else & &\tabularnewline\fi}%
8032 }
```

super3colborder The `super3colborder` style is like the `super3col` style, but with a border:

```
8033 \newglossarystyle{super3colborder}{%
```

Base it on the `glostylesuper3col` style:

```
8034 \setglossarystyle{super3col}{%
```

Put the glossary in a `supertabular` environment with three columns and a horizontal line in the head and tail:

```
8035 \renewenvironment{theglossary}{%
8036   {\tablehead{\hline}\tabletail{\hline}%
8037   \begin{supertabular}{|l|p{\glsdescwidth}|p{\glspagelistwidth}|}{}%
8038   \end{supertabular}}%
8039 }
```

super3colheader The `super3colheader` style is like the `super3col` style but with a header row:

```
8040 \newglossarystyle{super3colheader}{%
```

Base it on the `glostylesuper3col` style:

```
8041 \setglossarystyle{super3col}{%
```

Put the glossary in a `supertabular` environment with three columns, a header and no tail:

```
8042 \renewenvironment{theglossary}{%
8043   {\tablehead{\bfseries\entryname\&\bfseries\descriptionname\&
8044     \bfseries\pagename\tabularnewline}\tabletail{}%
8045   \begin{supertabular}{lp{\glsdescwidth}p{\glspagelistwidth}}{}%
8046   \end{supertabular}}%
8047 }
```

super3colheaderborder The `super3colheaderborder` style is like the `super3col` style but with a header and border:

```
8048 \newglossarystyle{super3colheaderborder}{%
```

Base it on the `glostylesuper3colborder` style:

```
8049 \setglossarystyle{super3colborder}{%
```

Put the glossary in a supertabular environment with three columns, a header with horizontal lines and a horizontal line in the tail:

```
8050 \renewenvironment{theglossary}%
8051   {\tablehead{\hline
8052     \bfseries\entryname\&\bfseries\descriptionname\&
8053     \bfseries\pagelistname\tabularnewline\hline}%
8054   \tabletail{\hline}%
8055   \begin{supertabular}{|l|p{\glsdescwidth}|p{\glspagelistwidth}|}{}%
8056   \end{supertabular}}%
8057 }
```

`super4col` The `super4col` glossary style has four columns, where the third column contains the value of the corresponding symbol key used when that entry was defined.

```
8058 \newglossarystyle{super4col}{%
```

Put the glossary in a supertabular environment with four columns and no head or tail:

```
8059 \renewenvironment{theglossary}%
8060   {\tablehead{}\tabletail{}%
8061   \begin{supertabular}{llll}{}%
8062   \end{supertabular}}%
```

Do nothing at the start of the table:

```
8063 \renewcommand*\glossaryheader{}%
```

No group headings:

```
8064 \renewcommand*\glsgroupheading[1]{}%
```

Main (level 0) entries on a row with the name in the first column, description in second column, symbol in third column and page list in last column:

```
8065 \renewcommand{\glossentry}[2]{%
8066   \glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}}\&
8067   \glossentrydesc{##1}\&
8068   \glossentrysymbol{##1}\&##3\tabularnewline
8069 }%
```

Sub entries on a row with no name, the description in the second column, symbol in third column and page list in last column:

```
8070 \renewcommand{\subglossentry}[3]{%
8071   \&
8072   \glssubentryitem{##2}%
8073   \glstarget{##2}{\strut}\glossentrydesc{##2}\&
8074   \glossentrysymbol{##2}\&##3\tabularnewline
8075 }%
```

Blank row between groups:

```
8076 \renewcommand*\glsgroupskip{}%
8077 \ifglsnogroupskip\else\&\&\tabularnewline\fi}%
8078 }
```

super4colheader The super4colheader style is like the super4col but with a header row.

```
8079 \newglossarystyle{super4colheader}{%
  Base it on the glostypesuper4col style:
  8080  \setglossarystyle{super4col}{%
    Put the glossary in a supertabular environment with four columns, a header and
    no tail:
    8081  \renewenvironment{theglossary}{%
      8082    {\tablehead{\bfseries\entryname&\bfseries\descriptionname&
        8083      \bfseries\symbolname &
        8084      \bfseries\pagelistname\tabularnewline}%
      8085    \tabletail{}%
      8086    \begin{supertabular}{|l|l|l|l|}%
      8087    \end{supertabular}}%
    8088 }
```

super4colborder The super4colborder style is like the super4col but with a border.

```
8089 \newglossarystyle{super4colborder}{%
  Base it on the glostypesuper4col style:
  8090  \setglossarystyle{super4col}{%
    Put the glossary in a supertabular environment with four columns and a hori-
    zontal line in the head and tail:
    8091  \renewenvironment{theglossary}{%
      8092    {\tablehead{\hline}\tabletail{\hline}%
      8093      \begin{supertabular}{|l|l|l|l|}%
      8094      \end{supertabular}}%
    8095 }
```

super4colheaderborder The super4colheaderborder style is like the super4col but with a header and bor-
der.

```
8096 \newglossarystyle{super4colheaderborder}{%
  Base it on the glostypesuper4col style:
  8097  \setglossarystyle{super4col}{%
    Put the glossary in a supertabular environment with four columns and a header
    bordered by horizontal lines and a horizontal line in the tail:
    8098  \renewenvironment{theglossary}{%
      8099    {\tablehead{\hline\bfseries\entryname&\bfseries\descriptionname&
        8100      \bfseries\symbolname &
        8101      \bfseries\pagelistname\tabularnewline\hline}%
      8102    \tabletail{\hline}%
      8103    \begin{supertabular}{|l|l|l|l|}%
      8104    \end{supertabular}}%
    8105 }
```

`altsuper4col` The `altsuper4col` glossary style is like `super4col` but has provision for multiline descriptions.

8106 `\newglossarystyle{altsuper4col}{%`

Base it on the `glostylesuper4col` style:

8107 `\setglossarystyle{super4col}{%`

Put the glossary in a `supertabular` environment with four columns and no head or tail:

8108 `\renewenvironment{theglossary}{%`

8109 `{\tablehead{}\tabletail{}}`

8110 `\begin{supertabular}{lp{\glsdescwidth}lp{\glspagelistwidth}}{}}`

8111 `{\end{supertabular}}{}`

8112 `}`

`altsuper4colheader` The `altsuper4colheader` style is like the `altsuper4col` but with a header row.

8113 `\newglossarystyle{altsuper4colheader}{%`

Base it on the `glostylesuper4colheader` style:

8114 `\setglossarystyle{super4colheader}{%`

Put the glossary in a `supertabular` environment with four columns, a header and no tail:

8115 `\renewenvironment{theglossary}{%`

8116 `{\tablehead{\bfseries\entryname\&\bfseries\descriptionname\&`

8117 `\bfseries\symbolname \&`

8118 `\bfseries\pagelistname\tabularnewline}\tabletail{}}`

8119 `\begin{supertabular}{lp{\glsdescwidth}lp{\glspagelistwidth}}{}}`

8120 `{\end{supertabular}}{}`

8121 `}`

`altsuper4colborder` The `altsuper4colborder` style is like the `altsuper4col` but with a border.

8122 `\newglossarystyle{altsuper4colborder}{%`

Base it on the `glostylesuper4colborder` style:

8123 `\setglossarystyle{super4colborder}{%`

Put the glossary in a `supertabular` environment with four columns and a horizontal line in the head and tail:

8124 `\renewenvironment{theglossary}{%`

8125 `{\tablehead{\hline\tabletail{\hline}}{}}`

8126 `\begin{supertabular}{}`

8127 `{|l|p{\glsdescwidth}|l|p{\glspagelistwidth}|}{}}`

8128 `{\end{supertabular}}{}`

8129 `}`

`per4colheaderborder` The `altsuper4colheaderborder` style is like the `altsuper4col` but with a header and border.

8130 `\newglossarystyle{altsuper4colheaderborder}{%`

Base it on the `glostylesuper4colheaderborder` style:

```
8131 \setglossarystyle{super4colheaderborder}%
```

Put the glossary in a `supertabular` environment with four columns and a header bordered by horizontal lines and a horizontal line in the tail:

```
8132 \renewenvironment{theglossary}%
8133   {\tablehead{\hline
8134     \bfseries\entryname &
8135     \bfseries\descriptionname &
8136     \bfseries\symbolname &
8137     \bfseries\pagelistname\tabularnewline\hline}%
8138   \tabletail{\hline}%
8139   \begin{supertabular}%
8140     {|l|p{\glsdescwidth}|l|p{\glspagelistwidth}|}%
8141   \end{supertabular}%
8142 }
```

5.8 Glossary Styles using supertabular environment (`glossary-superragged` package)

The glossary styles defined in the package use the `supertabular` environment. These styles are like those provided by the package, except that the multiline columns have ragged right justification.

```
8143 \ProvidesPackage{glossary-superragged}[2013/11/14 v4.0 (NLCT)]
```

Requires the package:

```
8144 \RequirePackage{array}
```

Requires the package:

```
8145 \RequirePackage{supertabular}
```

`\glsdescwidth` This is a length that governs the width of the description column. This may already have been defined.

```
8146 \@ifundefined{\glsdescwidth}{%
8147   \newlength{\glsdescwidth}
8148   \setlength{\glsdescwidth}{0.6\hsize}
8149 }{}
```

`\glspagelistwidth` This is a length that governs the width of the page list column. This may already have been defined.

```
8150 \@ifundefined{\glspagelistwidth}{%
8151   \newlength{\glspagelistwidth}
8152   \setlength{\glspagelistwidth}{0.1\hsize}
8153 }{}
```

`superragged` The superragged glossary style uses the `supertabular` environment.

```
8154 \newglossarystyle{superragged}{%
```

Put the glossary in a supertabular environment with two columns and no head or tail:

```
8155 \renewenvironment{theglossary}%
8156   {\tablehead{}\tabletail{}%
8157   \begin{supertabular}{l>{\raggedright}p{\glsdescwidth}}{}%
8158   \end{supertabular}}%
```

Do nothing at the start of the table:

```
8159 \renewcommand*{\glossaryheader}{}%
```

No group headings:

```
8160 \renewcommand*{\glsgroupheading}[1]{}%
```

Main (level 0) entries put in a row (name in first column, description and page list in second column):

```
8161 \renewcommand{\glossentry}[2]{%
8162   \glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}} &
8163   \glossentrydesc{##1}\glspostdescription\space ##2%
8164   \tabularnewline
8165 }%
```

Sub entries put in a row (no name, description and page list in second column):

```
8166 \renewcommand{\subglossentry}[3]{%
8167   &
8168   \glssubentryitem{##2}%
8169   \glstarget{##2}{\strut}\glossentrydesc{##2}\glspostdescription\space
8170   ##3%
8171   \tabularnewline
8172 }%
```

Blank row between groups:

```
8173 \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else & \tabularnewline\fi}%
8174 }
```

superraggedborder The superraggedborder style is like the above, but with horizontal and vertical lines:

```
8175 \newglossarystyle{superraggedborder}{%
```

Base it on the glostypesuperragged style:

```
8176 \setglossarystyle{superragged}{%
```

Put the glossary in a supertabular environment with two columns and a horizontal line in the head and tail:

```
8177 \renewenvironment{theglossary}%
8178   {\tablehead{\hline}\tabletail{\hline}%
8179   \begin{supertabular}{|l|>{\raggedright}p{\glsdescwidth}|}{}%
8180   \end{supertabular}}%
8181 }
```

superraggedheader The superraggedheader style is like the super style, but with a header:

```
8182 \newglossarystyle{superraggedheader}{%
```

Base it on the `glostylesuperragged` style:

```
8183 \setglossarystyle{superragged}%
```

Put the glossary in a `supertabular` environment with two columns, a header and no tail:

```
8184 \renewenvironment{theglossary}%
8185   {\tablehead{\bfseries \entryname & \bfseries \descriptionname}%
8186     \tabularnewline}%
8187   \tabletail{}%
8188   \begin{supertabular}{l>{\raggedright}p{\glsdescwidth}}}%
8189   \end{supertabular}}%
8190 }
```

`rraggedheaderborder` The `superraggedheaderborder` style is like the `superragged` style but with a header and border:

```
8191 \newglossarystyle{superraggedheaderborder} {%
```

Base it on the `glostypesuper` style:

```
8192 \setglossarystyle{superragged}%
```

Put the glossary in a `supertabular` environment with two columns, a header and horizontal lines above and below the table:

```
8193 \renewenvironment{theglossary}%
8194   {\tablehead{\hline\bfseries \entryname &
8195     \bfseries \descriptionname\tabularnewline\hline}%
8196   \tabletail{\hline}%
8197   \begin{supertabular}{|l|>{\raggedright}p{\glsdescwidth}|}}%
8198   \end{supertabular}}%
8199 }
```

`superragged3col` The `superragged3col` style is like the `superragged` style, but with 3 columns:

```
8200 \newglossarystyle{superragged3col} {%
```

Put the glossary in a `supertabular` environment with three columns and no head or tail:

```
8201 \renewenvironment{theglossary}%
8202   {\tablehead{}\tabletail{}%
8203   \begin{supertabular}{l>{\raggedright}p{\glsdescwidth}%
8204     >{\raggedright}p{\glspagelistwidth}}}}%
8205 \end{supertabular}}%
```

Do nothing at the start of the table:

```
8206 \renewcommand*\glossaryheader{}%
```

No group headings:

```
8207 \renewcommand*\glsgroupheading[1]{}%
```

Main (level 0) entries on a row (name in first column, description in second column, page list in last column):

```
8208 \renewcommand*\glossentry[2]{%
8209   \glsentryitem{##1}\glisttarget{##1}{\glossentryname{##1}} &
```

```
8210     \glossentrydesc{##1} &  
8211     ##2\tabularnewline  
8212 }%
```

Sub entries on a row (no name, description in second column, page list in last column):

```
8213 \renewcommand{\subglossentry}[3]{%  
8214     &  
8215     \glssubentryitem{##2} %  
8216     \glstarget{##2}{\strut}\glossentrydesc{##2} &  
8217     ##3\tabularnewline  
8218 }%
```

Blank row between groups:

```
8219 \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else & \&\tabularnewline\fi} %  
8220 }
```

perragged3colborder The superragged3colborder style is like the superragged3col style, but with a border:

```
8221 \newglossarystyle{superragged3colborder}{%
```

Base it on the glostypesuperragged3col style:

```
8222 \setglossarystyle{superragged3col}{%
```

Put the glossary in a supertabular environment with three columns and a horizontal line in the head and tail:

```
8223 \renewenvironment{theglossary}{%  
8224     {\tablehead{\hline}\tabletail{\hline}}%  
8225     \begin{supertabular}{|l|>{\raggedright}p{\glsdescwidth}|%  
8226         >{\raggedright}p{\glspagelistwidth}|}}%  
8227     {\end{supertabular}}%  
8228 }
```

perragged3colheader The superragged3colheader style is like the superragged3col style but with a header row:

```
8229 \newglossarystyle{superragged3colheader}{%
```

Base it on the glostypesuperragged3col style:

```
8230 \setglossarystyle{superragged3col}{%
```

Put the glossary in a supertabular environment with three columns, a header and no tail:

```
8231 \renewenvironment{theglossary}{%  
8232     {\tablehead{\bfseries\entryname\&\bfseries\descriptionname&%  
8233         \bfseries\pagelistname\tabularnewline}\tabletail{}}%  
8234     \begin{supertabular}{l>{\raggedright}p{\glsdescwidth}%  
8235         >{\raggedright}p{\glspagelistwidth}}}}%  
8236     {\end{supertabular}}%  
8237 }
```

ght3colheaderborder The superragged3colheaderborder style is like the superragged3col style but with a header and border:

```
8238 \newglossarystyle{superragged3colheaderborder}{%
```

Base it on the glostypesuperragged3colborder style:

```
8239 \setglossarystyle{superragged3colborder}{%
```

Put the glossary in a supertabular environment with three columns, a header with horizontal lines and a horizontal line in the tail:

```
8240 \renewenvironment{theglossary}{%
8241   {\tablehead{\hline
8242     \bfseries\entryname\&\bfseries\descriptionname\&
8243     \bfseries\pagelistname\tabularnewline\hline}%
8244   \tabletail{\hline}%
8245   \begin{supertabular}{|l|>{\raggedright}p{\glscdescwidth}|%
8246     >{\raggedright}p{\glspagelistwidth}|}%
8247   \end{supertabular}}%
8248 }
```

altsuperragged4col The altsuperragged4col glossary style is like altsuper4col style in the package but uses ragged right formatting in the description and page list columns.

```
8249 \newglossarystyle{altsuperragged4col}{%
```

Put the glossary in a supertabular environment with four columns and no head or tail:

```
8250 \renewenvironment{theglossary}{%
8251   {\tablehead{}\tabletail{}%
8252   \begin{supertabular}{l>{\raggedright}p{\glscdescwidth}l%
8253     >{\raggedright}p{\glspagelistwidth}}%
8254   \end{supertabular}}%
```

Do nothing at the start of the table:

```
8255 \renewcommand*\glossaryheader{}%
```

No group headings:

```
8256 \renewcommand*\glsgroupheading[1]{}%
```

Main (level 0) entries on a row with the name in the first column, description in second column, symbol in third column and page list in last column:

```
8257 \renewcommand{\glossentry}[2]{%
8258   \glsentryitem{##1}\glstarget{##1}{\glossentryname{##1}} &
8259   \glossentrydesc{##1} &
8260   \glossentrysymbol{##1} & ##2\tabularnewline
8261 }%
```

Sub entries on a row with no name, the description in the second column, symbol in third column and page list in last column:

```
8262 \renewcommand{\subglossentry}[3]{%
8263   &
8264   \glssubentryitem{##2}%
8265   \glstarget{##2}{\strut}\glossentrydesc{##2} &
```

```
8266     \glossentrysymbol{##2} & ##3\tabularnewline
8267 }
```

Blank row between groups:

```
8268 \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else & & &\tabularnewline\fi}%
8269 }
```

perragged4colheader The `altsuperragged4colheader` style is like the `altsuperragged4col` style but with a header row.

```
8270 \newglossarystyle{altsuperragged4colheader}{%
```

Base it on the `glostylealtsuperragged4col` style:

```
8271 \setglossarystyle{altsuperragged4col}{%
```

Put the glossary in a `supertabular` environment with four columns, a header and no tail:

```
8272 \renewenvironment{theglossary}%
8273   {\tablehead{\bfseries\entryname\&\bfseries\descriptionname\&
8274     \bfseries\symbolname \&
8275     \bfseries\pagelistname\tabularnewline}\tabletail{}}
8276   \begin{supertabular}{l>{\raggedright}p{\glsdescwidth}l>{\raggedright}p{\glspagelistwidth}}%
8277     \end{supertabular}%
8278   \end{supertabular}%
8279 }
```

perragged4colborder The `altsuperragged4colborder` style is like the `altsuperragged4col` style but with a border.

```
8280 \newglossarystyle{altsuperragged4colborder}{%
```

Base it on the `glostylealtsuperragged4col` style:

```
8281 \setglossarystyle{altsuperragged4col}{%
```

Put the glossary in a `supertabular` environment with four columns and a horizontal line in the head and tail:

```
8282 \renewenvironment{theglossary}%
8283   {\tablehead{\hline}\tabletail{\hline}%
8284   \begin{supertabular}%
8285     {|l|>{\raggedright}p{\glsdescwidth}|l|>{\raggedright}p{\glspagelistwidth}|}%
8286   \end{supertabular}%
8287   \end{supertabular}%
8288 }
```

ged4colheaderborder The `altsuperragged4colheaderborder` style is like the `altsuperragged4col` style but with a header and border.

```
8289 \newglossarystyle{altsuperragged4colheaderborder}{%
```

Base it on the `glostylealtsuperragged4col` style:

```
8290 \setglossarystyle{altsuperragged4col}{%
```

Put the glossary in a supertabular environment with four columns and a header bordered by horizontal lines and a horizontal line in the tail:

```
8291 \renewenvironment{theglossary}%
8292   {\tablehead{\hline
8293     \bfseries\entryname &
8294     \bfseries\descriptionname &
8295     \bfseries\symbolname &
8296     \bfseries\pagelistname\tabularnewline\hline}%
8297   \tabletail{\hline}%
8298   \begin{supertabular}%
8299     {|l|>{\raggedright}p{\glscdescwidth}|l|%
8300       >{\raggedright}p{\glspagelistwidth}|}{}%
8301   \end{supertabular}%
8302 }
```

5.9 Tree Styles (glossary-tree.sty)

The style file defines glossary styles that have a tree-like structure. These are designed for hierarchical glossaries.

```
8303 \ProvidesPackage{glossary-tree}[2014/08/27 v4.10 (NLCT)]
```

\glstreenamefmt Format used to display the name in the tree styles. (This may be counteracted by \glsnamefont.) This command is also used to format the group headings.

```
8304 \newcommand*\glstreenamefmt[1]{\textbf{\#1}}
```

index The index glossary style is similar in style to the way indices are usually typeset using \item, \subitem and \subsubitem. The entry name is set in bold. If an entry has a symbol, it is placed in brackets after the name. Then the description is displayed, followed by the number list. This style allows up to three levels.

```
8305 \newglossarystyle{index}{%
```

Set the paragraph indentation and skip and define \item to be the same as that used by theindex:

```
8306 \renewenvironment{theglossary}%
8307   {\setlength{\parindent}{0pt}%
8308   \setlength{\parskip}{0pt plus 0.3pt}%
8309   \let\item@\idxitem}%
8310   {\par}%
```

Do nothing at the start of the environment:

```
8311 \renewcommand*\glossaryheader{}%
```

No group headers:

```
8312 \renewcommand*\glsgroupheading[1]{}%
```

Main (level 0) entry starts a new item with the name in bold followed by the symbol in brackets (if it exists), the description and the page list.

```
8313 \renewcommand*\glossentry[2]{}%
```

```

8314     \item\glsentryitem{##1}\glstreenamefmt{\glstarget{##1}{\glossentryname{##1}}}%
8315     \ifglshassymbol{##1}{\space(\glossentrysymbol{##1})}{}%
8316     \space \glossentrydesc{##1}\glspostdescription\space ##2%
8317 }%

```

Sub entries: level 1 entries use `\subitem`, levels greater than 1 use `\subsubitem`. The level (##1) shouldn't be 0, as that's catered by `\glossentry`, but for completeness, if the level is 0, `\item` is used. The name is put in bold, followed by the symbol in brackets (if it exists), the description and the page list.

```

8318 \renewcommand{\subglossentry}[3]{%
8319   \ifcase##1\relax
8320     % level 0
8321     \item
8322   \or
8323     % level 1
8324     \subitem
8325     \glssubentryitem{##2}%
8326   \else
8327     % all other levels
8328     \subsubitem
8329   \fi
8330   \glstreenamefmt{\glstarget{##2}{\glossentryname{##2}}}%
8331   \ifglshassymbol{##2}{\space(\glossentrysymbol{##2})}{}%
8332   \space\glossentrydesc{##2}\glspostdescription\space ##3%
8333 }%

```

Vertical gap between groups is the same as that used by indices:

```
8334 \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else\indexspace\fi}}
```

indexgroup The `indexgroup` style is like the `index` style but has headings.

```
8335 \newglossarystyle{indexgroup}{%
```

Base it on the `glostyleindex` style:

```
8336 \setglossarystyle{index}%
```

Add a heading for each group. This puts the group's title in bold followed by a vertical gap.

```
8337 \renewcommand*{\glsgroupheading}[1]{%
8338   \item\glstreenamefmt{\glsgetgrouptitle{##1}}\indexspace}%
8339 }
```

indexhypergroup The `indexhypergroup` style is like the `indexgroup` style but has hyper navigation.

```
8340 \newglossarystyle{indexhypergroup}{%
```

Base it on the `glostyleindex` style:

```
8341 \setglossarystyle{index}%
```

Put navigation links to the groups at the start of the glossary:

```
8342 \renewcommand*{\glossaryheader}{%
8343   \item\glstreenamefmt{\glsnavigation}\indexspace}%
```

Add a heading for each group (with a target). The group's title is in bold followed by a vertical gap.

```
8344 \renewcommand*{\glsgroupheading}[1]{%
8345   \item\glstreenamefmt{\glsnavhypertarget{##1}{\glsgetgrouptitle{##1}}}{%
8346   \indexspace}%
8347 }
```

tree The tree glossary style is similar in style to the index style, but can have arbitrary levels.

```
8348 \newglossarystyle{tree}{%
```

Set the paragraph indentation and skip:

```
8349 \renewenvironment{theglossary}%
8350   {\setlength{\parindent}{0pt}%
8351     \setlength{\parskip}{0pt plus 0.3pt}}%
8352 {}%
```

Do nothing at the start of the theglossary environment:

```
8353 \renewcommand*{\glossaryheader}{}%
```

No group headings:

```
8354 \renewcommand*{\glsgroupheading}[1]{}%
```

Main (level 0) entries: name in bold, followed by symbol in brackets (if it exists), the description and the page list:

```
8355 \renewcommand{\glossentry}[2]{%
8356   \hangindent0pt\relax
8357   \parindent0pt\relax
8358   \glsentryitem{##1}\glstreenamefmt{\glstarget{##1}{\glossentryname{##1}}}{%
8359     \ifglshassymbol{##1}{\space(\glossentrysymbol{##1})}{}}%
8360     \space\glossentrydesc{##1}\glspostdescription\space##2\par
8361 }%
```

Sub entries: level n is indented by n times `\glstreeindent`. The name is in bold, followed by the symbol in brackets (if it exists), the description and the page list.

```
8362 \renewcommand{\subglossentry}[3]{%
8363   \hangindent##1\glstreeindent\relax
8364   \parindent##1\glstreeindent\relax
8365   \ifnum##1=1\relax
8366     \glssubentryitem{##2}%
8367   \fi
8368   \glstreenamefmt{\glstarget{##2}{\glossentryname{##2}}}{%
8369     \ifglshassymbol{##2}{\space(\glossentrysymbol{##2})}{}}%
8370     \space\glossentrydesc{##2}\glspostdescription\space ##3\par
8371 }%
```

Vertical gap between groups is the same as that used by indices:

```
8372 \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else\indexspace\fi}}
```

`treegroup` Like the tree style but the glossary groups have headings.

8373 `\newglossarystyle{treegroup}{%`

 Base it on the `glostyletree` style:

8374 `\setglossarystyle{tree}{%`

 Each group has a heading (in bold) followed by a vertical gap):

8375 `\renewcommand{\glsgroupheading}[1]{\par`

8376 `\noindent\glstreenamefmt{\glsgroupname\par\indexspace}%`

8377 `}`

`treehypergroup` The `treehypergroup` style is like the `treegroup` style, but has a set of links to the groups at the start of the glossary.

8378 `\newglossarystyle{treehypergroup}{%`

 Base it on the `glostyletree` style:

8379 `\setglossarystyle{tree}{%`

 Put navigation links to the groups at the start of the `glossary` environment:

8380 `\renewcommand*{\glossaryheader}{%`

8381 `\par\noindent\glstreenamefmt{\glossaryheader\par\indexspace}%`

 Each group has a heading (in bold with a target) followed by a vertical gap):

8382 `\renewcommand*{\glsgroupheading}[1]{%`

8383 `\par\noindent`

8384 `\glstreenamefmt{\glossaryheader\glshyperlink{\glsgroupname}{\glsgroupname}\par`

8385 `\indexspace}%`

8386 `}`

`\glstreeindent` Length governing left indent for each level of the tree style.

8387 `\newlength\glstreeindent`

8388 `\setlength{\glstreeindent}{10pt}`

`treenoname` The `treenoname` glossary style is like the `tree` style, but doesn't print the name or symbol for sub-levels.

8389 `\newglossarystyle{treenoname}{%`

 Set the paragraph indentation and skip:

8390 `\renewenvironment{the glossary}{%`

8391 `\setlength{\parindent}{0pt}%`

8392 `\setlength{\parskip}{0pt plus 0.3pt}}%`

8393 `}%`

 No header:

8394 `\renewcommand*{\glossaryheader}{%`

 No group headings:

8395 `\renewcommand*{\glsgroupheading}[1]{%`

Main (level 0) entries: the name is in bold, followed by the symbol in brackets (if it exists), the description and the page list.

```
8396 \renewcommand{\glossentry}[2]{%
8397   \hangindent0pt\relax
8398   \parindent0pt\relax
8399   \glsentryitem{##1}\glstreenamefmt{\glstarget{##1}{\glossentryname{##1}}}{%
8400     \ifglsassymbol{##1}{\space(\glossentrysymbol{##1})}{}}%
8401   \space\glossentrydesc{##1}\glspostdescription\space##2\par
8402 }%
```

Sub entries: level $\langle n \rangle$ is indented by $\langle n \rangle$ times \glstreeindent . The name and symbol are omitted. The description followed by the page list are displayed.

```
8403 \renewcommand{\subglossentry}[3]{%
8404   \hangindent##1\glstreeindent\relax
8405   \parindent##1\glstreeindent\relax
8406   \ifnum##1=1\relax
8407     \glssubentryitem{##2}%
8408   \fi
8409   \glstarget{##2}{\strut}%
8410   \glossentrydesc{##2}\glspostdescription\space##3\par
8411 }%
```

Vertical gap between groups is the same as that used by indices:

```
8412 \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else\indexspace\fi}%
8413 }
```

treenonamegroup Like the treenoname style but the glossary groups have headings.

```
8414 \newglossarystyle{treenonamegroup}{%
```

Base it on the glostyletreenoname style:

```
8415 \setglossarystyle{treenoname}{%
```

Give each group a heading:

```
8416 \renewcommand{\glsgroupheading}[1]{\par
8417   \noindent\glstreenamefmt{\glsgetgroup{##1}}\par\indexspace}%
8418 }
```

treenonamehypergroup The treenonamehypergroup style is like the treenonamegroup style, but has a set of links to the groups at the start of the glossary.

```
8419 \newglossarystyle{treenonamehypergroup}{%
```

Base it on the glostyletreenoname style:

```
8420 \setglossarystyle{treenoname}{%
```

Put navigation links to the groups at the start of the theglossary environment:

```
8421 \renewcommand*{\glossaryheader}{%
8422   \par\noindent\glstreenamefmt{\glsnavigation}\par\indexspace}%
```

Each group has a heading (in bold with a target) followed by a vertical gap):

```
8423 \renewcommand*{\glsgroupheading}[1]{%
8424   \par\noindent
```

```

8425     \glstreenamefmt{\glsnavhypertarget{##1}{\glsgetgroupitle{##1}}}\par
8426     \indexspace}%
8427 }

\glssetwidest \glssetwidest[<level>]{<text>} sets the widest text for the given level. It is
used by the altree glossary styles to determine the indentation of each level.
8428 \newcommand*{\glssetwidest}[2][0]{%
8429   \expandafter\def\csname @glswidestname\romannumeral#1\endcsname{%
8430     #2}%
8431 }

@glswidestname Initialise @glswidestname.
8432 \newcommand*{@glswidestname}{}}

altree The altree glossary style is similar in style to the tree style, but the indentation
is obtained from the width of @glswidestname which is set using
\glssetwidest.
8433 \newglossarystyle{altree}{%
  Redefine theglossary environment.
  8434   \renewenvironment{theglossary}{%
    8435     {\def\@gls@prevlevel{-1}%
    8436       \mbox{}\par}%
    8437     {\par}%
  }
  Set the header and group headers to nothing.
  8438   \renewcommand*{\glossaryheader}{}%
  8439   \renewcommand*{\glsgroupheading}[1]{}%
  Redefine the way that the level 0 entries are displayed.
  8440   \renewcommand{\glossentry}[2]{%
    8441     \ifnum\@gls@prevlevel=0\relax
    8442     \else
      Find out how big the indentation should be by measuring the widest entry.
      8443       \settowidth{\glstreeindent}{\glstreenamefmt{@glswidestname\space}}%
      8444     \fi
      Set the hangindent and paragraph indent.
      8445       \hangindent\glstreeindent
      8446       \parindent\glstreeindent
      Put the name to the left of the paragraph block.
      8447       \makebox[0pt][r]{\makebox[\glstreeindent][1]{%
        8448         \glsentryitem{##1}\glstreenamefmt{\glstarget{##1}{\glossentryname{##1}}}}}%
      If the symbol is missing, ignore it, otherwise put it in brackets.
      8449       \ifglsassymbol{##1}{(\glossentrysymbol{##1})\space}{}%
      Do the description followed by the description terminator and location list.
      8450       \glossentrydesc{##1}\glspostdescription \space ##2\par
}

```

Set the previous level to 0.

```
8451     \def\@gls@prevlevel{0}%
8452 }
```

Redefine the way sub-entries are displayed.

```
8453 \renewcommand{\subglossentry}[3]{%
```

Increment and display the sub-entry counter if this is a level 1 entry and the sub-entry counter is in use.

```
8454 \ifnum##1=1\relax
8455     \glssubentryitem{##2}%
8456 \fi
```

If the level hasn't changed, keep the same settings, otherwise adjust `\glstreeindent` accordingly.

```
8457 \ifnum\@gls@prevlevel=##1\relax
8458 \else
```

Compute the widest entry for this level, or for level 0 if not defined for this level.

Store in `\gls@tmp[1]`

```
8459 \@ifundefined{@glswidestname\romannumeral##1}{%
8460     \settowidth{\gls@tmp[1]}{\glstreenamefmt{\@glswidestname\space}}}{%
8461     \settowidth{\gls@tmp[1]}{\glstreenamefmt{%
8462         \csname @glswidestname\romannumeral##1\endcsname\space}}}
```

Determine if going up or down a level

```
8463 \ifnum\@gls@prevlevel<##1\relax
```

Depth has increased, so add the width of the widest entry to `\glstreeindent`.

```
8464     \setlength\glstreeindent\gls@tmp[1]
8465     \addtolength\glstreeindent\parindent
8466     \parindent\glstreeindent
8467 \else
```

Depth has decreased, so subtract width of the widest entry from the previous level to `\glstreeindent`. First determine the width of the widest entry for the previous level and store in `\glstreeindent`.

```
8468 \@ifundefined{@glswidestname\romannumeral\@gls@prevlevel}{%
8469     \settowidth{\glstreeindent}{\glstreenamefmt{%
8470         \@glswidestname\space}}}{%
8471     \settowidth{\glstreeindent}{\glstreenamefmt{%
8472         \csname @glswidestname\romannumeral\@gls@prevlevel
8473             \endcsname\space}}}
```

Subtract this length from the previous level's paragraph indent and set to `\glstreeindent`.

```
8474     \addtolength\parindent{-\glstreeindent}%
8475     \setlength\glstreeindent\parindent
8476     \fi
8477 \fi
```

Set the hanging indentation.

```
8478 \hangindent\glstreeindent
```

Put the name to the left of the paragraph block

```
8479 \makebox[0pt][r]{\makebox[\gls@tmpplen][1]{%
8480 \glstreenamefmt{\glstarget{##2}{\glossentryname{##2}}}}}%
```

If the symbol is missing, ignore it, otherwise put it in brackets.

```
8481 \ifglshassymbol{##2}{(\glossentrysymbol{##2})\space}{}%
```

Do the description followed by the description terminator and location list.

```
8482 \glossentrydesc{##2}\glspostdescription\space ##3\par
```

Set the previous level macro to the current level.

```
8483 \def\@gls@prevlevel{##1}%
8484 }%
```

Vertical gap between groups is the same as that used by indices:

```
8485 \renewcommand*{\glsgroupskip}{\ifglsnogroupskip\else\indexspace\fi}%
8486 }
```

alttreegroup Like the **almtree** style but the glossary groups have headings.

```
8487 \newglossarystyle{alttreegroup}{%
```

Base it on the **glostylealmtree** style:

```
8488 \setglossarystyle{almtree}%
```

Give each group a heading.

```
8489 \renewcommand{\glsgroupheading}[1]{\par
8490 \def\@gls@prevlevel{-1}%
8491 \hangindent0pt\relax
8492 \parindent0pt\relax
8493 \glstreenamefmt{\glsgetgroup{##1}}\par\indexspace}%
8494 }
```

alttreehypergroup The **alttreehypergroup** style is like the **alttreegroup** style, but has a set of links to the groups at the start of the glossary.

```
8495 \newglossarystyle{alttreehypergroup}{%
```

Base it on the **glostylealmtree** style:

```
8496 \setglossarystyle{almtree}%
```

Put the navigation links in the header

```
8497 \renewcommand*{\glossaryheader}{%
8498 \par
8499 \def\@gls@prevlevel{-1}%
8500 \hangindent0pt\relax
8501 \parindent0pt\relax
8502 \glstreenamefmt{\glsnavigation}\par\indexspace}%
8503 }
```

Put a hypertarget at the start of each group

```
8503 \renewcommand*{\glsgroupheading}[1]{%
8504   \par
8505   \def\@gls@prevlevel{-1}%
8506   \hangindent0pt\relax
8507   \parindent0pt\relax
8508   \glstreenamefmt{\glsnavhypertarget{##1}{\glsgetgrouptitle{##1}}}\par
8509   \indexspace}}
```

6 glossaries-compatible-207

Provides compatibility with version 2.07 and below. This uses original glossaries xindy and makeindex formatting, so can be used with old documents that had customized style files, but hyperlinks may not work properly.

```
8510 \NeedsTeXFormat{LaTeX2e}
8511 \ProvidesPackage{glossaries-compatible-207}[2011/04/02 v1.0 (NLCT)]
```

\GlsAddXdyAttribute Adds an attribute in old format.

```
8512 \ifglsxindy
8513   \renewcommand*\GlsAddXdyAttribute[1]{%
8514     \edef\@xdyattributes{\@xdyattributes ^~J \string"#1\string"}%
8515     \expandafter\toks@\expandafter{\@xdylocref}%
8516     \edef\@xdylocref{\the\toks@ ^~J}%
8517     (markup-locref
8518       :open \string"\string`n\string`\setentrycounter
8519         {\noexpand\glscounter}%
8520         \expandafter\string\csname#1\endcsname
8521         \expandafter@gobble\string`\{\string" ^~J
8522       :close \string"\expandafter@gobble\string`\}\string" ^~J
8523       :attr \string"#1\string"})}}
```

Only has an effect before \writeis:

```
8524 \fi
```

\GlsAddXdyCounters

```
8525 \renewcommand*\GlsAddXdyCounters[1]{%
8526   \GlossariesWarning{\string\GlsAddXdyCounters\space not available
8527   in compatibility mode.}%
8528 }
```

Add predefined attributes

```
8529 \GlsAddXdyAttribute{glsnumberformat}
8530 \GlsAddXdyAttribute{textrm}
8531 \GlsAddXdyAttribute{textsf}
8532 \GlsAddXdyAttribute{texttt}
8533 \GlsAddXdyAttribute{textbf}
8534 \GlsAddXdyAttribute{textmd}
8535 \GlsAddXdyAttribute{textit}
```

```

8536 \GlsAddXdyAttribute{textup}
8537 \GlsAddXdyAttribute{textsl}
8538 \GlsAddXdyAttribute{textsc}
8539 \GlsAddXdyAttribute{emph}
8540 \GlsAddXdyAttribute{glshypernumber}
8541 \GlsAddXdyAttribute{hyperrm}
8542 \GlsAddXdyAttribute{hypersf}
8543 \GlsAddXdyAttribute{hypertt}
8544 \GlsAddXdyAttribute{hyperbf}
8545 \GlsAddXdyAttribute{hypermd}
8546 \GlsAddXdyAttribute{hyperit}
8547 \GlsAddXdyAttribute{hyperup}
8548 \GlsAddXdyAttribute{hypersl}
8549 \GlsAddXdyAttribute{hypersc}
8550 \GlsAddXdyAttribute{hyperemph}

```

\GlsAddXdyLocation Restore v2.07 definition:

```

8551 \ifglsxindy
8552   \renewcommand*\GlsAddXdyLocation}[2]{%
8553     \edef\xdyuserlocationondefs{%
8554       \xdyuserlocationondefs ^~J%
8555       (define-location-class \string"#1\string"~J\space\space
8556         \space(#2))
8557     }%
8558     \edef\xdyuserlocationnames{%
8559       \xdyuserlocationnames~J\space\space\space\space
8560         \string"#1\string"}%
8561   }
8562 \fi

```

\@do@wrglossary

```

8563 \renewcommand{\@do@wrglossary}[1]{%
  Determine whether to use xindy or makeindex syntax

```

8564 \ifglsxindy

Need to determine if the formatting information starts with a (or) indicating a range.

```

8565 \expandafter\glo@check@midxrangechar\glsnumberformat@nil
8566 \def\glo@range{}%
8567 \expandafter\if\glo@prefix(\relax
8568   \def\glo@range{:open-range}%
8569 \else
8570   \expandafter\if\glo@prefix)\relax
8571   \def\glo@range{:close-range}%
8572 \fi
8573 \fi

```

Get the location and escape any special characters

```

8574 \protected\edef\glslocref{\theglsentrycounter}%
8575 \gls@checkmidxchars\glslocref

```

Write to the glossary file using xindy syntax.

```
8576 \glossary[\csname glo@#1@type\endcsname]{%
8577 (indexentry :tkey (\csname glo@#1@index\endcsname)
8578 :locref \string"\@glslocref\string" %
8579 :attr \string"\@glo@suffix\string" \@glo@range
8580 )
8581 }%
8582 \else
```

Convert the format information into the format required for makeindex

```
8583 \@set@glo@numformat\@glo@numfmt\@gls@counter\@glsnumberformat
```

Write to the glossary file using makeindex syntax.

```
8584 \glossary[\csname glo@#1@type\endcsname]{%
8585 \string\glossaryentry{\csname glo@#1@index\endcsname
8586 \@gls@encapchar\@glo@numfmt}{\theglsentrycounter}}%
8587 \fi
8588 }
```

\@set@glo@numformat Only had 3 arguments in v2.07

```
8589 \def\@set@glo@numformat#1#2#3{%
8590 \expandafter\@glo@check@midxrangechar#3\@nil
8591 \protected@edef#1{%
8592 \@glo@prefix setentrycounter[] {#2}%
8593 \expandafter\string\csname\@glo@suffix\endcsname
8594 }%
8595 \@gls@checkmidxchars#1%
8596 }
```

\writeist Redefine \writeist back to the way it was in v2.07, but change \istfile to \glswrite.

```
8597 \ifglsxindy
8598 \def\writeist{%
8599 \openout\glswrite=\istfilename
8600 \write\glswrite{;; xindy style file created by the glossaries
8601 package in compatible-2.07 mode}%
8602 \write\glswrite{;; for document '\jobname' on
8603 \the\year-\the\month-\the\day}%
8604 \write\glswrite{^^J; required styles^^J}
8605 \@for\xdystyle:=\xdyrequiredstyles\do{%
8606 \ifx\xdystyle\empty
8607 \else
8608 \protected@write\glswrite{}{(require
8609 \string"\@xdystyle.xdy\string")}%
8610 \fi
8611 }%
8612 \write\glswrite{^^J%
8613 ; list of allowed attributes (number formats)^^J}%
8614 \write\glswrite{(define-attributes ((\@xdyattributes)))}%
8615 \write\glswrite{^^J; user defined alphabets^^J}%

```

```

8616 \write\glswrite{@xdyuseralphabets}%
8617 \write\glswrite{^^J; location class definitions^^J}%
8618 \protected@edef\@gls@roman{@roman{0\string"
8619     \string"roman-numbers-lowercase\string" :sep \string"}}%
8620 \onelevel@sanitize\@gls@roman
8621 \edef\@tmp{\string" \string"roman-numbers-lowercase\string"
8622     :sep \string"}%
8623 \onelevel@sanitize\@tmp
8624 \ifx\@tmp\@gls@roman
8625     \write\glswrite{(define-location-class
8626         \string"roman-page-numbers\string"^^J\space\space\space
8627             (\string"roman-numbers-lowercase\string")
8628                 :min-range-length \@glsminrange)}%
8629 \else
8630     \write\glswrite{(define-location-class
8631         \string"roman-page-numbers\string"^^J\space\space\space
8632             (:sep "\@gls@roman")
8633                 :min-range-length \@glsminrange)}%
8634 \fi
8635 \write\glswrite{(define-location-class
8636     \string"Roman-page-numbers\string"^^J\space\space\space
8637         (\string"roman-numbers-uppercase\string")
8638             :min-range-length \@glsminrange)}%
8639 \write\glswrite{(define-location-class
8640     \string"arabic-page-numbers\string"^^J\space\space\space
8641         (\string"arabic-numbers\string")
8642             :min-range-length \@glsminrange)}%
8643 \write\glswrite{(define-location-class
8644     \string"alpha-page-numbers\string"^^J\space\space\space
8645         (\string"alpha\string")
8646             :min-range-length \@glsminrange)}%
8647 \write\glswrite{(define-location-class
8648     \string"Alpha-page-numbers\string"^^J\space\space\space
8649         (\string"ALPHA\string")
8650             :min-range-length \@glsminrange)}%
8651 \write\glswrite{(define-location-class
8652     \string"Appendix-page-numbers\string"^^J\space\space\space
8653         (\string"ALPHA\string"
8654             :sep \string"\@glsAlphacompositor\string"
8655                 \string"arabic-numbers\string")
8656                     :min-range-length \@glsminrange)}%
8657 \write\glswrite{(define-location-class
8658     \string"arabic-section-numbers\string"^^J\space\space\space
8659         (\string"arabic-numbers\string"
8660             :sep \string"\@glscompositor\string"
8661                 \string"arabic-numbers\string")
8662                     :min-range-length \@glsminrange)}%
8663 \write\glswrite{^^J; user defined location classes}%
8664 \write\glswrite{@xdyuserlocationdefs}%

```

```

8665 \write\glswrite{^^J; define cross-reference class^^J}%
8666 \write\glswrite{(define-crossref-class \string"see\string"
8667   :unverified )}%
8668 \write\glswrite{(markup-crossref-list
8669   :class \string"see\string"^^J\space\space\space
8670   :open \string"\string\glsseeformat\string"
8671   :close \string"{}\string")}%
8672 \write\glswrite{^^J; define the order of the location classes}%
8673 \write\glswrite{(define-location-class-order
8674   (@xdylocationclassorder))}%
8675 \write\glswrite{^^J; define the glossary markup^^J}%
8676 \write\glswrite{(markup-index^^J\space\space\space
8677   :open \string"\string
8678   \glossarysection[\string\glossarytoctitle]{\string
8679   \glossarytitle}\string\glossarypreamble\string~n\string\begin
8680   {theglossary}\string\glossaryheader\string~n\string" ^^J\space
8681   \space\space:close \string"\expandafter\@gobble
8682   \string%\string~n\string
8683   \end{theglossary}\string\glossarypostamble
8684   \string~n\string" ^^J\space\space\space
8685   :tree)}%}
8686 \write\glswrite{(markup-letter-group-list
8687   :sep \string"\string\glsgroupskip\string~n\string")}%
8688 \write\glswrite{(markup-indexentry
8689   :open \string"\string\relax \string\glsresetentrylist
8690   \string~n\string")}%
8691 \write\glswrite{(markup-locclass-list :open
8692   \string"\glsopenbrace\string\glossaryentrynumbers
8693   \glsopenbrace\string\relax\space \string"^^J\space\space\space
8694   :sep \string", \string"
8695   :close \string"\glsclosebrace\glsclosebrace\string")}%
8696 \write\glswrite{(markup-locref-list
8697   :sep \string"\string\delimN\space\string")}%
8698 \write\glswrite{(markup-range
8699   :sep \string"\string\delimR\space\string")}%
8700 \onelevel@sanitize\gls@suffixF
8701 \onelevel@sanitize\gls@suffixFF
8702 \ifx\gls@suffixF\@empty
8703 \else
8704   \write\glswrite{(markup-range
8705     :close "\gls@suffixF" :length 1 :ignore-end)}%
8706 \fi
8707 \ifx\gls@suffixFF\@empty
8708 \else
8709   \write\glswrite{(markup-range
8710     :close "\gls@suffixFF" :length 2 :ignore-end)}%
8711 \fi
8712 \write\glswrite{^^J; define format to use for locations^^J}%
8713 \write\glswrite{\@xdylocref}%

```

```

8714 \write\glswrite{^^J; define letter group list format^^J}%
8715 \write\glswrite{(markup-letter-group-list
8716   :sep \string"\string\glsgroupskip\string~n\string")}%
8717 \write\glswrite{^^J; letter group headings^^J}%
8718 \write\glswrite{(markup-letter-group
8719   :open-head \string"\string\glsgroupheading
8720   \glsopenbrace\string"^^J\space\space\space
8721   :close-head \string"\glsclosebrace\string")}%
8722 \write\glswrite{^^J; additional letter groups^^J}%
8723 \write\glswrite{@xdylettergroups}%
8724 \write\glswrite{^^J; additional sort rules^^J}%
8725 \write\glswrite{@xdysortrules}%
8726 \noist}
8727 \else
8728 \edef\@gls@actualchar{\string?}
8729 \edef\@gls@encapchar{\string!}
8730 \edef\@gls@levelchar{\string!}
8731 \edef\@gls@quotechar{\string"}
8732 \def\writeist{\relax
8733   \openout\glswrite=\listfilename
8734   \write\glswrite{\expandafter\@gobble\string\% makeindex style file
8735     created by the glossaries package}
8736   \write\glswrite{\expandafter\@gobble\string\% for document
8737     '\jobname' on \the\year-\the\month-\the\day}
8738   \write\glswrite{actual '\@gls@actualchar'}
8739   \write\glswrite{encap '\@gls@encapchar'}
8740   \write\glswrite{level '\@gls@levelchar'}
8741   \write\glswrite{quote '\@gls@quotechar'}
8742   \write\glswrite{keyword \string"\string\\glossaryentry\string"}
8743   \write\glswrite{preamble \string"\string\\glossarysection[\string
8744     \glossarytoctitle]\{\string\\glossarytitle\}\string
8745     \glossarypreamble\string\n\string\\begin{theglossary}\string
8746       \glossaryheader\string\n\string"
8747   \write\glswrite{postamble \string"\string\\string\%\string\n\string
8748     \end{theglossary}\string\\glossarypostamble\string\n
8749     \string"}
8750   \write\glswrite{group_skip \string"\string\\string\\glsgroupskip\string\n
8751     \string"}
8752   \write\glswrite{item_0 \string"\string\\string\%\string\n\string"}
8753   \write\glswrite{item_1 \string"\string\\string\%\string\n\string"}
8754   \write\glswrite{item_2 \string"\string\\string\%\string\n\string"}
8755   \write\glswrite{item_01 \string"\string\\string\%\string\n\string"}
8756   \write\glswrite{item_x1
8757     \string"\string\\relax \string\\glsresetentrylist\string\n
8758     \string"}
8759   \write\glswrite{item_12 \string"\string\\string\%\string\n\string"}
8760   \write\glswrite{item_x2
8761     \string"\string\\relax \string\\glsresetentrylist\string\n
8762     \string"}

```

```

8763 \write\glswrite{delim_0 \string"\string\"{\string
8764   \"\glossaryentrynumbers\string\"{\string\"{\relax \string"
8765 \write\glswrite{delim_1 \string"\string\"{\string
8766   \"\glossaryentrynumbers\string\"{\string\"{\relax \string"
8767 \write\glswrite{delim_2 \string"\string\"{\string
8768   \"\glossaryentrynumbers\string\"{\string\"{\relax \string"
8769 \write\glswrite{delim_t \string"\string\"{\string}\string\"{\string"
8770 \write\glswrite{delim_n \string"\string\"{\string}\delimN \string"
8771 \write\glswrite{delim_r \string"\string\"{\string}\delimR \string"
8772 \write\glswrite{headings_flag 1}
8773 \write\glswrite{heading_prefix
8774   \string"\string\"{\glsgroupheading\string\"{\string"
8775 \write\glswrite{heading_suffix
8776   \string"\string\"{\string}\string\"{\relax
8777   \string"\string\"{\glsresetentrylist \string"
8778 \write\glswrite{symhead_positive \string"\glosssymbols\string"
8779 \write\glswrite{numhead_positive \string"\glossnumbers\string"
8780 \write\glswrite{page_compositor \string"\glosscompositor\string"
8781 \@gls@escbsdq\gls@suffixF
8782 \@gls@escbsdq\gls@suffixFF
8783 \ifx\gls@suffixF\@empty
8784 \else
8785   \write\glswrite{suffix_2p \string"\gls@suffixF\string"
8786 \fi
8787 \ifx\gls@suffixFF\@empty
8788 \else
8789   \write\glswrite{suffix_3p \string"\gls@suffixFF\string"
8790 \fi
8791 \noist
8792 }
8793 \fi

\noist
8794 \renewcommand*\noist{\let\writeist\relax}

```

Compatibility macros.

```

8795 \NeedsTeXFormat{LaTeX2e}
8796 \ProvidesPackage{glossaries-compatible-307}[2013/11/14 v4.0 (NLCT)]

```

Compatibility macros for predefined glossary styles:

compatglossarystyle Defines a compatibility glossary style.

```

8797 \newcommand{\compatglossarystyle}[2]{%
8798   \ifcsundef{@glscompstyle@#1}%
8799   {%
8800     \csdef{@glscompstyle@#1}{#2}%
8801   }%
8802   {%
8803     \PackageError{glossaries}{Glossary compatibility style '#1' is already defined}{}%
8804   }%

```

```
8805 }
```

Backward compatible inline style.

```
8806 \compatglossarystyle{inline}{%
8807   \renewcommand{\glossaryentryfield}[5]{%
8808     \glsinlinedopostchild
8809     \gls@inlinesep
8810     \def\glo@desc{##3}%
8811     \def\@no@post@desc{\nopo@desc}%
8812     \glsentryitem{##1}\glsinlinenameformat{##1}{##2}%
8813     \ifx\glo@desc\@no@post@desc
8814       \glsinlineemptydescformat{##4}{##5}%
8815     \else
8816       \ifstrempty{##3}%
8817         {\glsinlineemptydescformat{##4}{##5}}%
8818         {\glsinlinedescformat{##3}{##4}{##5}}%
8819     \fi
8820   \ifgls@haschildren{##1}%
8821   {%
8822     \glsresetsubentrycounter
8823     \glsinlineparentchildseparator
8824     \def\gls@inlinesubsep{}%
8825     \def\gls@inlinepostchild{\glsinlinepostchild}%
8826   }%
8827   {}%
8828   \def\gls@inlinesep{\glsinlineseparator}%
8829 }
```

Sub-entries display description:

```
8830   \renewcommand{\glossarysubentryfield}[6]{%
8831     \gls@inlinesubsep%
8832     \glsinlinesubnameformat{##2}{##3}%
8833     \glssubentryitem{##2}\glsinlinesubdescformat{##4}{##5}{##6}%
8834     \def\gls@inlinesubsep{\glsinlinesubseparator}%
8835   }%
8836 }
```

Backward compatible list style.

```
8837 \compatglossarystyle{list}{%
8838   \renewcommand*\glossaryentryfield[5]{%
8839     \item[\glsentryitem{##1}\glstarget{##1}{##2}]
8840       ##3\glspostdescription\space ##5}%
8841 }
```

Sub-entries continue on the same line:

```
8841   \renewcommand*\glossarysubentryfield[6]{%
8842     \glssubentryitem{##2}%
8843     \glstarget{##2}{\strut}##4\glspostdescription\space ##6.}%
8844 }
```

Backward compatible listgroup style.

```
8845 \compatglossarystyle{listgroup}{%
```

```

8846 \csuse{@glscompstyle@list}%
8847 }%
    Backward compatible listhypergroup style.
8848 \compatglossarystyle{listhypergroup}{%
8849 \csuse{@glscompstyle@list}%
8850 }%
    Backward compatible altlist style.
8851 \compatglossarystyle{altlist}{%
8852 \renewcommand*\glossaryentryfield}[5]{%
8853 \item[\glsentryitem{##1}\glstarget{##1}{##2}]%
8854 \mbox{}\par\nobreak\@afterheading
8855 ##3\glspostdescription\space ##5}%
8856 \renewcommand*\glossarysubentryfield}[6]{%
8857 \par
8858 \glssubentryitem{##2}%
8859 \glstarget{##2}{\strut}##4\glspostdescription\space ##6}%
8860 }%
    Backward compatible altlistgroup style.
8861 \compatglossarystyle{altlistgroup}{%
8862 \csuse{@glscompstyle@altlist}%
8863 }%
    Backward compatible altlisthypergroup style.
8864 \compatglossarystyle{altlisthypergroup}{%
8865 \csuse{@glscompstyle@altlist}%
8866 }%
    Backward compatible listdotted style.
8867 \compatglossarystyle{listdotted}{%
8868 \renewcommand*\glossaryentryfield}[5]{%
8869 \item[]\makebox[\glslistdottedwidth][1]{%
8870 \glsentryitem{##1}\glstarget{##1}{##2}%
8871 \unskip\leaders\hbox to 2.9mm{\hss.}\hfill\strut}##3}%
8872 \renewcommand*\glossarysubentryfield}[6]{%
8873 \item[]\makebox[\glslistdottedwidth][1]{%
8874 \glssubentryitem{##2}%
8875 \glstarget{##2}{##3}%
8876 \unskip\leaders\hbox to 2.9mm{\hss.}\hfill\strut}##4}%
8877 }%
    Backward compatible sublistdotted style.
8878 \compatglossarystyle{sublistdotted}{%
8879 \csuse{@glscompstyle@listdotted}%
8880 \renewcommand*\glossaryentryfield}[5]{%
8881 \item[\glsentryitem{##1}\glstarget{##1}{##2}]}%
8882 }%
    Backward compatible long style.
8883 \compatglossarystyle{long}{%

```

```

8884 \renewcommand*\glossaryentryfield}[5]{%
8885   \glsentryitem{##1}\glstarget{##1}{##2} & ##3\glspostdescription\space ##5\\}%
8886 \renewcommand*\glossarysubentryfield}[6]{%
8887   &
8888   \glssubentryitem{##2}%
8889   \glstarget{##2}{\strut}##4\glspostdescription\space ##6\\}%
8890 }%

```

Backward compatible longborder style.

```

8891 \compatglossarystyle{longborder}{%
8892 \csuse{@glscompstyle@long}%
8893 }%

```

Backward compatible longheader style.

```

8894 \compatglossarystyle{longheader}{%
8895 \csuse{@glscompstyle@long}%
8896 }%

```

Backward compatible longheaderborder style.

```

8897 \compatglossarystyle{longheaderborder}{%
8898 \csuse{@glscompstyle@long}%
8899 }%

```

Backward compatible long3col style.

```

8900 \compatglossarystyle{long3col}{%
8901 \renewcommand*\glossaryentryfield}[5]{%
8902   \glsentryitem{##1}\glstarget{##1}{##2} & ##3 & ##5\\}%
8903 \renewcommand*\glossarysubentryfield}[6]{%
8904   &
8905   \glssubentryitem{##2}%
8906   \glstarget{##2}{\strut}##4 & ##6\\}%
8907 }%

```

Backward compatible long3colborder style.

```

8908 \compatglossarystyle{long3colborder}{%
8909 \csuse{@glscompstyle@long3col}%
8910 }%

```

Backward compatible long3colheader style.

```

8911 \compatglossarystyle{long3colheader}{%
8912 \csuse{@glscompstyle@long3col}%
8913 }%

```

Backward compatible long3colheaderborder style.

```

8914 \compatglossarystyle{long3colheaderborder}{%
8915 \csuse{@glscompstyle@long3col}%
8916 }%

```

Backward compatible long4col style.

```

8917 \compatglossarystyle{long4col}{%
8918 \renewcommand*\glossaryentryfield}[5]{%
8919   \glsentryitem{##1}\glstarget{##1}{##2} & ##3 & ##4 & ##5\\}%

```

```

8920 \renewcommand*\glossarysubentryfield}[6]{%
8921   &
8922   \glssubentryitem{##2}%
8923   \glstarget{##2}{\strut}##4 & ##5 & ##6\\}%
8924 }%

```

Backward compatible long4colheader style.

```

8925 \compatglossarystyle{long4colheader}{%
8926   \csuse{@glscompstyle@long4col}%
8927 }%

```

Backward compatible long4colborder style.

```

8928 \compatglossarystyle{long4colborder}{%
8929   \csuse{@glscompstyle@long4col}%
8930 }%

```

Backward compatible long4colheaderborder style.

```

8931 \compatglossarystyle{long4colheaderborder}{%
8932   \csuse{@glscompstyle@long4col}%
8933 }%

```

Backward compatible altlong4col style.

```

8934 \compatglossarystyle{altnlong4col}{%
8935   \csuse{@glscompstyle@long4col}%
8936 }%

```

Backward compatible altnlong4colheader style.

```

8937 \compatglossarystyle{altnlong4colheader}{%
8938   \csuse{@glscompstyle@long4col}%
8939 }%

```

Backward compatible altnlong4colborder style.

```

8940 \compatglossarystyle{altnlong4colborder}{%
8941   \csuse{@glscompstyle@long4col}%
8942 }%

```

Backward compatible altnlong4colheaderborder style.

```

8943 \compatglossarystyle{altnlong4colheaderborder}{%
8944   \csuse{@glscompstyle@long4col}%
8945 }%

```

Backward compatible long style.

```

8946 \compatglossarystyle{longragged}{%
8947   \renewcommand*\glossaryentryfield}[5]{%
8948     \glsentryitem{##1}\glstarget{##1}{##2} & ##3\glspostdescription\space ##5%
8949     \tabularnewline}%
8950   \renewcommand*\glossarysubentryfield}[6]{%
8951     &
8952     \glssubentryitem{##2}%
8953     \glstarget{##2}{\strut}##4\glspostdescription\space ##6%
8954     \tabularnewline}%
8955 }%

```

Backward compatible longraggedborder style.

```
8956 \compatglossarystyle{longraggedborder}{%
8957   \csuse{@glscompstyle@longragged}%
8958 }%
```

Backward compatible longraggedheader style.

```
8959 \compatglossarystyle{longraggedheader}{%
8960   \csuse{@glscompstyle@longragged}%
8961 }%
```

Backward compatible longraggedheaderborder style.

```
8962 \compatglossarystyle{longraggedheaderborder}{%
8963   \csuse{@glscompstyle@longragged}%
8964 }%
```

Backward compatible longragged3col style.

```
8965 \compatglossarystyle{longragged3col}{%
8966   \renewcommand*\glossaryentryfield}[5]{%
8967     \glsentryitem{##1}\glstarget{##1}{##2} & ##3 & ##5\tabularnewline}%
8968   \renewcommand*\glossarysubentryfield}[6]{%
8969     &
8970     \glssubentryitem{##2}%
8971     \glstarget{##2}{\strut}##4 & ##6\tabularnewline}%
8972 }%
```

Backward compatible longragged3colborder style.

```
8973 \compatglossarystyle{longragged3colborder}{%
8974   \csuse{@glscompstyle@longragged3col}%
8975 }%
```

Backward compatible longragged3colheader style.

```
8976 \compatglossarystyle{longragged3colheader}{%
8977   \csuse{@glscompstyle@longragged3col}%
8978 }%
```

Backward compatible longragged3colheaderborder style.

```
8979 \compatglossarystyle{longragged3colheaderborder}{%
8980   \csuse{@glscompstyle@longragged3col}%
8981 }%
```

Backward compatible altlongragged4col style.

```
8982 \compatglossarystyle{altnlongragged4col}{%
8983   \renewcommand*\glossaryentryfield}[5]{%
8984     \glsentryitem{##1}\glstarget{##1}{##2} & ##3 & ##4 & ##5\tabularnewline}%
8985   \renewcommand*\glossarysubentryfield}[6]{%
8986     &
8987     \glssubentryitem{##2}%
8988     \glstarget{##2}{\strut}##4 & ##5 & ##6\tabularnewline}%
8989 }%
```

Backward compatible altnlongragged4colheader style.

```
8990 \compatglossarystyle{altnlongragged4colheader}{%
```

```

8991 \csuse{@glscompstyle@altnlong4col}%
8992 }%
  Backward compatible altnlongragged4colborder style.
8993 \compatglossarystyle{altnlongragged4colborder}{%
8994 \csuse{@glscompstyle@altnlong4col}%
8995 }%
  Backward compatible altnlongragged4colheaderborder style.
8996 \compatglossarystyle{altnlongragged4colheaderborder}{%
8997 \csuse{@glscompstyle@altnlong4col}%
8998 }%
  Backward compatible index style.
8999 \compatglossarystyle{index}{%
9000 \renewcommand*\glossaryentryfield}[5]{%
9001 \item\glsentryitem{##1}\textbf{\glstarget{##1}{##2}}{%
9002 \ifx\relax##4\relax
9003 \else
9004 \space##4}%
9005 \fi
9006 \space##3\glspostdescription \space##5}%
9007 \renewcommand*\glossarysubentryfield}[6]{%
9008 \ifcase##1\relax
9009 % level 0
9010 \item
9011 \or
9012 % level 1
9013 \subitem
9014 \glssubentryitem{##2}%
9015 \else
9016 % all other levels
9017 \subsubitem
9018 \fi
9019 \textbf{\glstarget{##2}{##3}}{%
9020 \ifx\relax##5\relax
9021 \else
9022 \space##5}%
9023 \fi
9024 \space##4\glspostdescription\space##6}%
9025 }%
  Backward compatible indexgroup style.
9026 \compatglossarystyle{indexgroup}{%
9027 \csuse{@glscompstyle@index}%
9028 }%
  Backward compatible indexhypergroup style.
9029 \compatglossarystyle{indexhypergroup}{%
9030 \csuse{@glscompstyle@index}%
9031 }%

```

Backward compatible tree style.

```
9032 \compatglossarystyle{tree}{%
9033   \renewcommand{\glossaryentryfield}[5]{%
9034     \hangindent0pt\relax
9035     \parindent0pt\relax
9036     \glsentryitem{##1}\textbf{\glstarget{##1}{##2}}%
9037     \ifx\relax##4\relax
9038     \else
9039       \space{##4}%
9040     \fi
9041     \space{##3}\glspostdescription \space{##5}\par}%
9042   \renewcommand{\glossarysubentryfield}[6]{%
9043     \hangindent##1\glstreeindent\relax
9044     \parindent##1\glstreeindent\relax
9045     \ifnum##1=1\relax
9046       \glssubentryitem{##2}%
9047     \fi
9048     \textbf{\glstarget{##2}{##3}}%
9049     \ifx\relax##5\relax
9050     \else
9051       \space{##5}%
9052     \fi
9053     \space{##4}\glspostdescription\space{##6}\par}%
9054 }%
```

Backward compatible treegroup style.

```
9055 \compatglossarystyle{treegroup}{%
9056   \csuse{@glscompstyle@tree}}%
9057 }%
```

Backward compatible treehypergroup style.

```
9058 \compatglossarystyle{treehypergroup}{%
9059   \csuse{@glscompstyle@tree}}%
9060 }%
```

Backward compatible treenoname style.

```
9061 \compatglossarystyle{treenoname}{%
9062   \renewcommand{\glossaryentryfield}[5]{%
9063     \hangindent0pt\relax
9064     \parindent0pt\relax
9065     \glsentryitem{##1}\textbf{\glstarget{##1}{##2}}%
9066     \ifx\relax##4\relax
9067     \else
9068       \space{##4}%
9069     \fi
9070     \space{##3}\glspostdescription \space{##5}\par}%
9071   \renewcommand{\glossarysubentryfield}[6]{%
9072     \hangindent##1\glstreeindent\relax
9073     \parindent##1\glstreeindent\relax
9074     \ifnum##1=1\relax
```

```

9075     \glssubentryitem{##2}%
9076     \fi
9077     \glstarget{##2}{\strut}%
9078     ##4\glspostdescription\space ##6\par}%
9079 }%

```

Backward compatible treenonamegroup style.

```

9080 \compatglossarystyle{treenonamegroup}{%
9081   \csuse{@glscompstyle@treenoname}%
9082 }%

```

Backward compatible treenonamehypergroup style.

```

9083 \compatglossarystyle{treenonamehypergroup}{%
9084   \csuse{@glscompstyle@treenoname}%
9085 }%

```

Backward compatible alttree style.

```

9086 \compatglossarystyle{alttree}{%
9087   \renewcommand{\glossaryentryfield}[5]{%
9088     \ifnum\@gls@prevlevel=0\relax
9089     \else
9090       \settowidth{\glstreeindent}{\textbf{\@glswidestname\space}}%
9091       \hangindent\glstreeindent
9092       \parindent\glstreeindent
9093     \fi
9094     \makebox[0pt][r]{\makebox[\glstreeindent][1]{%
9095       \glsentryitem{##1}\textbf{\glstarget{##1}{##2}}}}%
9096     \ifx\relax##4\relax
9097     \else
9098       (##4)\space
9099     \fi
9100     ##3\glspostdescription \space ##5\par
9101     \def\@gls@prevlevel{0}%
9102   }%
9103   \renewcommand{\glossarysubentryfield}[6]{%
9104     \ifnum##1=1\relax
9105     \glssubentryitem{##2}%
9106     \fi
9107     \ifnum\@gls@prevlevel=##1\relax
9108     \else
9109       \@ifundefined{@glswidestname\romannumeral##1}{%
9110         \settowidth{\gls@tmp{len}}{\textbf{\@glswidestname\space}}}{%
9111         \settowidth{\gls@tmp{len}}{\textbf{%
9112           \csname @glswidestname\romannumeral##1\endcsname\space}}}}%
9113     \ifnum\@gls@prevlevel<##1\relax
9114       \setlength\glstreeindent\gls@tmp{len}
9115       \addtolength\glstreeindent\parindent
9116       \parindent\glstreeindent
9117     \else
9118       \@ifundefined{@glswidestname\romannumeral\@gls@prevlevel}{%
9119         \settowidth{\glstreeindent}{\textbf{%

```

```

9120      \glswidestname\space}}}}}{%
9121      \settowidth{\glstreeindent}{\textbf{%
9122          \csname @glswidestname\romannumeral\@gls@prevlevel
9123              \endcsname\space}}}}}{%
9124      \addtolength\parindent{-\glstreeindent}}%
9125      \setlength\glstreeindent\parindent
9126      \fi
9127  \fi
9128  \hangindent\glstreeindent
9129  \makebox[0pt][r]{\makebox[\gls@tmpplen][1]{%
9130      \textbf{\glstarget{##2}{##3}}}}}}}{%
9131  \ifx##5\relax\relax
9132  \else
9133      (##5)\space
9134  \fi
9135  ##4\glspostdescription\space ##6\par
9136  \def\@gls@prevlevel{##1}}%
9137 }%
9138 }%

```

Backward compatible alttreegroup style.

```

9139 \compatglossarystyle{alttreegroup}{%
9140  \csuse{@glscompstyle@alttree}}%
9141 }%

```

Backward compatible alttreehypergroup style.

```

9142 \compatglossarystyle{alttreehypergroup}{%
9143  \csuse{@glscompstyle@alttree}}%
9144 }%

```

Backward compatible mcolindex style.

```

9145 \compatglossarystyle{mcolindex}{%
9146  \csuse{@glscompstyle@index}}%
9147 }%

```

Backward compatible mcolindexgroup style.

```

9148 \compatglossarystyle{mcolindexgroup}{%
9149  \csuse{@glscompstyle@index}}%
9150 }%

```

Backward compatible mcolindexhypergroup style.

```

9151 \compatglossarystyle{mcolindexhypergroup}{%
9152  \csuse{@glscompstyle@index}}%
9153 }%

```

Backward compatible mcoltree style.

```

9154 \compatglossarystyle{mcoltree}{%
9155  \csuse{@glscompstyle@tree}}%
9156 }%

```

Backward compatible mcoltreegroup style.

```

9157 \compatglossarystyle{mcolindextreegroup}{%

```

```

9158 \csuse{@glscompstyle@tree}%
9159 }%
    Backward compatible mcoltreehypergroup style.
9160 \compatglossarystyle{mcolindextreehypergroup}{%
9161 \csuse{@glscompstyle@tree}%
9162 }%
    Backward compatible mcoltreeonename style.
9163 \compatglossarystyle{mcoltreeonename}{%
9164 \csuse{@glscompstyle@tree}%
9165 }%
    Backward compatible mcoltreeonamegroup style.
9166 \compatglossarystyle{mcoltreeonamegroup}{%
9167 \csuse{@glscompstyle@tree}%
9168 }%
    Backward compatible mcoltreeonamehypergroup style.
9169 \compatglossarystyle{mcoltreeonamehypergroup}{%
9170 \csuse{@glscompstyle@tree}%
9171 }%
    Backward compatible mcolalttree style.
9172 \compatglossarystyle{mcolalttree}{%
9173 \csuse{@glscompstyle@alttree}%
9174 }%
    Backward compatible mcolalttreegroup style.
9175 \compatglossarystyle{mcolalttreegroup}{%
9176 \csuse{@glscompstyle@alttree}%
9177 }%
    Backward compatible mcolalttreehypergroup style.
9178 \compatglossarystyle{mcolalttreehypergroup}{%
9179 \csuse{@glscompstyle@alttree}%
9180 }%
    Backward compatible superragged style.
9181 \compatglossarystyle{superragged}{%
9182 \renewcommand*\glossaryentryfield}[5]{%
9183 \glsentryitem{##1}\glstarget{##1}{##2} & ##3\glspostdescription\space ##5%
9184 \tabularnewline}%
9185 \renewcommand*\glossarysubentryfield}[6]{%
9186 &
9187 \glssubentryitem{##2}%
9188 \glstarget{##2}{\strut}##4\glspostdescription\space ##6%
9189 \tabularnewline}%
9190 }%
    Backward compatible superraggedborder style.
9191 \compatglossarystyle{superraggedborder}{%
9192 \csuse{@glscompstyle@superragged}%
9193 }%

```

Backward compatible superraggedheader style.

```
9194 \compatglossarystyle{superraggedheader}{%
9195   \csuse{@glscompstyle@superragged}%
9196 }%
```

Backward compatible superraggedheaderborder style.

```
9197 \compatglossarystyle{superraggedheaderborder}{%
9198   \csuse{@glscompstyle@superragged}%
9199 }%
```

Backward compatible superragged3col style.

```
9200 \compatglossarystyle{superragged3col}{%
9201   \renewcommand*\glossaryentryfield}[5]{%
9202     \glsentryitem{##1}\glstarget{##1}{##2} & ##3 & ##5\tabularnewline}%
9203   \renewcommand*\glossarysubentryfield}[6]{%
9204     &
9205     \glssubentryitem{##2}%
9206     \glstarget{##2}{\strut}##4 & ##6\tabularnewline}%
9207 }%
```

Backward compatible superragged3colborder style.

```
9208 \compatglossarystyle{superragged3colborder}{%
9209   \csuse{@glscompstyle@superragged3col}%
9210 }%
```

Backward compatible superragged3colheader style.

```
9211 \compatglossarystyle{superragged3colheader}{%
9212   \csuse{@glscompstyle@superragged3col}%
9213 }%
```

Backward compatible superragged3colheaderborder style.

```
9214 \compatglossarystyle{superragged3colheaderborder}{%
9215   \csuse{@glscompstyle@superragged3col}%
9216 }%
```

Backward compatible altsuperragged4col style.

```
9217 \compatglossarystyle{altsuperragged4col}{%
9218   \renewcommand*\glossaryentryfield}[5]{%
9219     \glsentryitem{##1}\glstarget{##1}{##2} & ##3 & ##4 & ##5\tabularnewline}%
9220   \renewcommand*\glossarysubentryfield}[6]{%
9221     &
9222     \glssubentryitem{##2}%
9223     \glstarget{##2}{\strut}##4 & ##5 & ##6\tabularnewline}%
9224 }%
```

Backward compatible altsuperragged4colheader style.

```
9225 \compatglossarystyle{altsuperragged4colheader}{%
9226   \csuse{@glscompstyle@altsuperragged4col}%
9227 }%
```

Backward compatible altsuperragged4colborder style.

```
9228 \compatglossarystyle{altsuperragged4colborder}{%
```

```

9229 \csuse{@glscompstyle@altsuperragged4col}%
9230 }%
    Backward compatible altsuperragged4colheaderborder style.
9231 \compatglossarystyle{altsuperragged4colheaderborder}{%
9232 \csuse{@glscompstyle@altsuperragged4col}%
9233 }%
    Backward compatible super style.
9234 \compatglossarystyle{super}{%
9235 \renewcommand*\glossaryentryfield}[5]{%
9236 \glsentryitem{##1}\glstarget{##1}{##2} & ##3\glspostdescription\space ##5\\}%
9237 \renewcommand*\glossarysubentryfield}[6]{%
9238 &
9239 \glssubentryitem{##2}%
9240 \glstarget{##2}{\strut}##4\glspostdescription\space ##6\\}%
9241 }%
    Backward compatible superborder style.
9242 \compatglossarystyle{superborder}{%
9243 \csuse{@glscompstyle@super}%
9244 }%
    Backward compatible superheader style.
9245 \compatglossarystyle{superheader}{%
9246 \csuse{@glscompstyle@super}%
9247 }%
    Backward compatible superheaderborder style.
9248 \compatglossarystyle{superheaderborder}{%
9249 \csuse{@glscompstyle@super}%
9250 }%
    Backward compatible super3col style.
9251 \compatglossarystyle{super3col}{%
9252 \renewcommand*\glossaryentryfield}[5]{%
9253 \glsentryitem{##1}\glstarget{##1}{##2} & ##3 & ##5\\}%
9254 \renewcommand*\glossarysubentryfield}[6]{%
9255 &
9256 \glssubentryitem{##2}%
9257 \glstarget{##2}{\strut}##4 & ##6\\}%
9258 }%
    Backward compatible super3colborder style.
9259 \compatglossarystyle{super3colborder}{%
9260 \csuse{@glscompstyle@super3col}%
9261 }%
    Backward compatible super3colheader style.
9262 \compatglossarystyle{super3colheader}{%
9263 \csuse{@glscompstyle@super3col}%
9264 }%

```

Backward compatible super3colheaderborder style.

```
9265 \compatglossarystyle{super3colheaderborder}{%
9266   \csuse{@glscompstyle@super3col}%
9267 }%
```

Backward compatible super4col style.

```
9268 \compatglossarystyle{super4col}{%
9269   \renewcommand*\glossaryentryfield}[5]{%
9270     \glstarget{\#1}\glstarget{\#2}{\#3 \& \#4 \& \#5}\\%
9271   \renewcommand*\glossarysubentryfield}[6]{%
9272     &
9273     \glssubentryitem{\#2}%
9274     \glstarget{\#2}{\strut}\#4 \& \#5 \& \#6\\}%
9275 }%
```

Backward compatible super4colheader style.

```
9276 \compatglossarystyle{super4colheader}{%
9277   \csuse{@glscompstyle@super4col}%
9278 }%
```

Backward compatible super4colborder style.

```
9279 \compatglossarystyle{super4colborder}{%
9280   \csuse{@glscompstyle@super4col}%
9281 }%
```

Backward compatible super4colheaderborder style.

```
9282 \compatglossarystyle{super4colheaderborder}{%
9283   \csuse{@glscompstyle@super4col}%
9284 }%
```

Backward compatible altsuper4col style.

```
9285 \compatglossarystyle{altsuper4col}{%
9286   \csuse{@glscompstyle@super4col}%
9287 }%
```

Backward compatible altsuper4colheader style.

```
9288 \compatglossarystyle{altsuper4colheader}{%
9289   \csuse{@glscompstyle@super4col}%
9290 }%
```

Backward compatible altsuper4colborder style.

```
9291 \compatglossarystyle{altsuper4colborder}{%
9292   \csuse{@glscompstyle@super4col}%
9293 }%
```

Backward compatible altsuper4colheaderborder style.

```
9294 \compatglossarystyle{altsuper4colheaderborder}{%
9295   \csuse{@glscompstyle@super4col}%
9296 }%
```

7 Accessibility Support (*glossaries-accsupp* Code)

The package is experimental. It is intended to provide a means of using the PDF accessibility support in glossary entries. See the documentation for further details about accessibility support.

9297 \NeedsTeXFormat{LaTeX2e}

Package version number now in line with main *glossaries* package number but will only be updated when *glossaries-accsupp*.sty is modified.

9298 \ProvidesPackage{glossaries-accsupp}[2014/07/30 v4.08 (NLCT)]

9299 Experimental glossaries accessibility]

Pass all options to *glossaries*:

9300 \DeclareOption*{\PassOptionsToPackage{\CurrentOption}{glossaries}}

Process options:

9301 \ProcessOptions

compatibleglossentry Override style compatibility macros:

9302 \def\compatibleglossentry#1#2{%

9303 \toks@{#2}%

9304 \protected@edef\@do@glossentry{%

9305 \noexpand\accsuppglossaryentryfield{#1}%

9306 {\noexpand\glsnamefont

9307 {\expandafter\expandonce\csname glo@\glsdetoklabel{#1}@name\endcsname}}%

9308 {\expandafter\expandonce\csname glo@\glsdetoklabel{#1}@desc\endcsname}}%

9309 {\expandafter\expandonce\csname glo@\glsdetoklabel{#1}@symbol\endcsname}}%

9310 {\the\toks@}%

9311 }%

9312 \@do@glossentry

9313 }

atiblesubglossentry

9314 \def\compatiblesubglossentry#1#2#3{%

9315 \toks@{#3}%

9316 \protected@edef\@do@subglossentry{%

9317 \noexpand\accsuppglossarysubentryfield{\number#1}%

9318 {#2}%

9319 {\noexpand\glsnamefont

9320 {\expandafter\expandonce\csname glo@\glsdetoklabel{#2}@name\endcsname}}%

9321 {\expandafter\expandonce\csname glo@\glsdetoklabel{#2}@desc\endcsname}}%

9322 {\expandafter\expandonce\csname glo@\glsdetoklabel{#2}@symbol\endcsname}}%

9323 {\the\toks@}%

9324 }%

9325 \@do@subglossentry

9326 }

Required packages:

9327 \RequirePackage{glossaries}

9328 \RequirePackage{accsupp}

7.1 Defining Replacement Text

The version 0.1 stored the replacement text in the symbol key. This has been changed to use the new keys defined here. Example of use:

```
\newglossaryentry{dr}{name=Dr,description={},access={Doctor}}
```

access The replacement text corresponding to the name key:

```
9329 \define@key{glossentry}{access}{%
9330   \def\@glo@access{\#1}%
9331 }
```

textaccess The replacement text corresponding to the text key:

```
9332 \define@key{glossentry}{textaccess}{%
9333   \def\@glo@textaccess{\#1}%
9334 }
```

firstaccess The replacement text corresponding to the first key:

```
9335 \define@key{glossentry}{firstaccess}{%
9336   \def\@glo@firstaccess{\#1}%
9337 }
```

pluralaccess The replacement text corresponding to the plural key:

```
9338 \define@key{glossentry}{pluralaccess}{%
9339   \def\@glo@pluralaccess{\#1}%
9340 }
```

firstpluralaccess The replacement text corresponding to the firstplural key:

```
9341 \define@key{glossentry}{firstpluralaccess}{%
9342   \def\@glo@firstpluralaccess{\#1}%
9343 }
```

symbolaccess The replacement text corresponding to the symbol key:

```
9344 \define@key{glossentry}{symbolaccess}{%
9345   \def\@glo@symbolaccess{\#1}%
9346 }
```

symbolpluralaccess The replacement text corresponding to the symbolplural key:

```
9347 \define@key{glossentry}{symbolpluralaccess}{%
9348   \def\@glo@symbolpluralaccess{\#1}%
9349 }
```

descriptionaccess The replacement text corresponding to the description key:

```
9350 \define@key{glossentry}{descriptionaccess}{%
9351   \def\@glo@descaccess{\#1}%
9352 }
```

`descriptionpluralaccess` The replacement text corresponding to the `descriptionplural` key:

```
9353 \define@key{glossentry}{descriptionpluralaccess}{%
9354   \def\@glo@descpluralaccess{#1}%
9355 }
```

`shortaccess` The replacement text corresponding to the `short` key:

```
9356 \define@key{glossentry}{shortaccess}{%
9357   \def\@glo@shortaccess{#1}%
9358 }
```

`shortpluralaccess` The replacement text corresponding to the `shortplural` key:

```
9359 \define@key{glossentry}{shortpluralaccess}{%
9360   \def\@glo@shortpluralaccess{#1}%
9361 }
```

`longaccess` The replacement text corresponding to the `long` key:

```
9362 \define@key{glossentry}{longaccess}{%
9363   \def\@glo@longaccess{#1}%
9364 }
```

`longpluralaccess` The replacement text corresponding to the `longplural` key:

```
9365 \define@key{glossentry}{longpluralaccess}{%
9366   \def\@glo@longpluralaccess{#1}%
9367 }
```

There are no equivalent keys for the `user1`...`user6` keys. The replacement text would have to be explicitly put in the value, e.g., `user1={\glsaccsupp{inches}{in}}`.

Append these new keys to `\@gls@keymap`:

```
9368 \appto\@gls@keymap{,%
9369   {access}{access},%
9370   {textaccess}{textaccess},%
9371   {firstaccess}{firstaccess},%
9372   {pluralaccess}{pluralaccess},%
9373   {firstpluralaccess}{firstpluralaccess},%
9374   {symbolaccess}{symbolaccess},%
9375   {symbolpluralaccess}{symbolpluralaccess},%
9376   {descaccess}{descaccess},%
9377   {descpluralaccess}{descpluralaccess},%
9378   {shortaccess}{shortaccess},%
9379   {shortpluralaccess}{shortpluralaccess},%
9380   {longaccess}{longaccess},%
9381   {longpluralaccess}{longpluralaccess}%
9382 }
```

`\@gls@noaccess` Indicates that no replacement text has been provided.

```
9383 \def\@gls@noaccess{\relax}
```

Add to the start hook (the access key is initialised to the value of the symbol key at the start for backwards compatibility):

```
9384 \let\@gls@oldnewglossaryentryprehook\@newglossaryentryprehook  
9385 \renewcommand*\{@newglossaryentryprehook}{%  
9386   \@gls@oldnewglossaryentryprehook  
9387   \def\@glo@access{\@glo@symbol}%
```

Initialise the other keys:

```
9388 \def\@glo@textaccess{\@glo@access}%
9389 \def\@glo@firstaccess{\@glo@access}%
9390 \def\@glo@pluralaccess{\@glo@textaccess}%
9391 \def\@glo@firstpluralaccess{\@glo@pluralaccess}%
9392 \def\@glo@symbolaccess{\relax}%
9393 \def\@glo@symbolpluralaccess{\@glo@symbolaccess}%
9394 \def\@glo@descaccess{\relax}%
9395 \def\@glo@descpluralaccess{\@glo@descaccess}%
9396 \def\@glo@shortaccess{\relax}%
9397 \def\@glo@shortpluralaccess{\@glo@shortaccess}%
9398 \def\@glo@longaccess{\relax}%
9399 \def\@glo@longpluralaccess{\@glo@longaccess}%
9400 }
```

Add to the end hook:

```
9401 \let\@gls@oldnewglossaryentryposthook\@newglossaryentryposthook  
9402 \renewcommand*\{@newglossaryentryposthook}{%  
9403   \@gls@oldnewglossaryentryposthook
```

Store the access information:

```
9404 \expandafter  
9405   \protected@xdef\csname glo@\@glo@label @access\endcsname{  
9406     \@glo@access}%
9407 \expandafter  
9408   \protected@xdef\csname glo@\@glo@label @textaccess\endcsname{  
9409     \@glo@textaccess}%
9410 \expandafter  
9411   \protected@xdef\csname glo@\@glo@label @firstaccess\endcsname{  
9412     \@glo@firstaccess}%
9413 \expandafter  
9414   \protected@xdef\csname glo@\@glo@label @pluralaccess\endcsname{  
9415     \@glo@pluralaccess}%
9416 \expandafter  
9417   \protected@xdef\csname glo@\@glo@label @firstpluralaccess\endcsname{  
9418     \@glo@firstpluralaccess}%
9419 \expandafter  
9420   \protected@xdef\csname glo@\@glo@label @symbolaccess\endcsname{  
9421     \@glo@symbolaccess}%
9422 \expandafter  
9423   \protected@xdef\csname glo@\@glo@label @symbolpluralaccess\endcsname{  
9424     \@glo@symbolpluralaccess}%
9425 \expandafter
```

```

9426   \protected@xdef\csname glo@\glo@label @descaccess\endcsname{%
9427     \@glo@descaccess}%
9428 \expandafter
9429   \protected@xdef\csname glo@\glo@label @descpluralaccess\endcsname{%
9430     \@glo@descpluralaccess}%
9431 \expandafter
9432   \protected@xdef\csname glo@\glo@label @shortaccess\endcsname{%
9433     \@glo@shortaccess}%
9434 \expandafter
9435   \protected@xdef\csname glo@\glo@label @shortpluralaccess\endcsname{%
9436     \@glo@shortpluralaccess}%
9437 \expandafter
9438   \protected@xdef\csname glo@\glo@label @longaccess\endcsname{%
9439     \@glo@longaccess}%
9440 \expandafter
9441   \protected@xdef\csname glo@\glo@label @longpluralaccess\endcsname{%
9442     \@glo@longpluralaccess}%
9443 }

```

7.2 Accessing Replacement Text

\glsentryaccess Get the value of the access key for the entry with the given label:

```

9444 \newcommand*{\glsentryaccess}[1]{%
9445   \@gls@entry@field{#1}{access}}%
9446 }

```

\glsentrytextaccess Get the value of the textaccess key for the entry with the given label:

```

9447 \newcommand*{\glsentrytextaccess}[1]{%
9448   \@gls@entry@field{#1}{textaccess}}%
9449 }

```

\glsentryfirstaccess Get the value of the firstaccess key for the entry with the given label:

```

9450 \newcommand*{\glsentryfirstaccess}[1]{%
9451   \@gls@entry@field{#1}{firstaccess}}%
9452 }

```

\glsentrypluralaccess Get the value of the pluralaccess key for the entry with the given label:

```

9453 \newcommand*{\glsentrypluralaccess}[1]{%
9454   \@gls@entry@field{#1}{pluralaccess}}%
9455 }

```

\glsentryfirstpluralaccess Get the value of the firstpluralaccess key for the entry with the given label:

```

9456 \newcommand*{\glsentryfirstpluralaccess}[1]{%
9457   \csname glo@#1@firstpluralaccess\endcsname
9458 }

```

\glsentrysymbolaccess Get the value of the symbolaccess key for the entry with the given label:

```

9459 \newcommand*{\glsentrysymbolaccess}[1]{%

```

```
9460  \gls@entry@field{#1}{symbolaccess}%
9461 }
```

\symbolpluralaccess Get the value of the symbolpluralaccess key for the entry with the given label:

```
9462 \newcommand*{\glsentrysymbolpluralaccess}[1]{%
9463   \gls@entry@field{#1}{symbolpluralaccess}%
9464 }
```

\glsentrydescaccess Get the value of the descriptionaccess key for the entry with the given label:

```
9465 \newcommand*{\glsentrydescaccess}[1]{%
9466   \gls@entry@field{#1}{descaccess}%
9467 }
```

\trydescpluralaccess Get the value of the descriptionpluralaccess key for the entry with the given label:

```
9468 \newcommand*{\glsentrydescpluralaccess}[1]{%
9469   \gls@entry@field{#1}{descaccess}%
9470 }
```

\glsentryshortaccess Get the value of the shortaccess key for the entry with the given label:

```
9471 \newcommand*{\glsentryshortaccess}[1]{%
9472   \gls@entry@field{#1}{shortaccess}%
9473 }
```

\ryshortpluralaccess Get the value of the shortpluralaccess key for the entry with the given label:

```
9474 \newcommand*{\glsentryshortpluralaccess}[1]{%
9475   \gls@entry@field{#1}{shortpluralaccess}%
9476 }
```

\glsentrylongaccess Get the value of the longaccess key for the entry with the given label:

```
9477 \newcommand*{\glsentrylongaccess}[1]{%
9478   \gls@entry@field{#1}{longaccess}%
9479 }
```

\trylongpluralaccess Get the value of the longpluralaccess key for the entry with the given label:

```
9480 \newcommand*{\glsentrylongpluralaccess}[1]{%
9481   \gls@entry@field{#1}{longpluralaccess}%
9482 }
```

\glsaccsupp \glsaccsupp{\i replacement text}{\i text}

This can be redefined to use E or Alt instead of ActualText. (I don't have the software to test the E or Alt options.)

```
9483 \newcommand*{\glsaccsupp}[2]{%
9484   \BeginAccSupp{ActualText=#1}\#2\EndAccSupp{}%
9485 }
```

```

\xglsacccsupp Fully expands replacement text before calling \glsacccsupp
9486 \newcommand*{\xglsacccsupp}[2]{%
9487   \protected@edef{\gls@replacementtext{#1}}{%
9488     \expandafter\glsacccsupp\expandafter{\gls@replacementtext{#2}}%
9489   }

@gls@access@display
9490 \newcommand*{\gls@access@display}[2]{%
9491   \protected@edef{\glo@access{#2}}{%
9492     \ifx{\glo@access}{\gls@noaccess}%
9493       #1%
9494     \else
9495       \xglsacccsupp{\glo@access}{#1}%
9496     \fi
9497   }

\lsnameaccessdisplay Displays the first argument with the accessibility text for the entry with the label
given by the second argument (if set).
9498 \DeclareRobustCommand*{\lsnameaccessdisplay}[2]{%
9499   \gls@access@display{#1}{\glsentryaccess{#2}}%
9500 }

\lstextaccessdisplay As above but for the textaccess replacement text.
9501 \DeclareRobustCommand*{\lstextaccessdisplay}[2]{%
9502   \gls@access@display{#1}{\glsentrytextaccess{#2}}%
9503 }

\pluralaccessdisplay As above but for the pluralaccess replacement text.
9504 \DeclareRobustCommand*{\pluralaccessdisplay}[2]{%
9505   \gls@access@display{#1}{\glsentrypluralaccess{#2}}%
9506 }

\sfirstraccessdisplay As above but for the firstaccess replacement text.
9507 \DeclareRobustCommand*{\sfirstraccessdisplay}[2]{%
9508   \gls@access@display{#1}{\glsentryfirstaccess{#2}}%
9509 }

\pluralraccessdisplay As above but for the firstpluralaccess replacement text.
9510 \DeclareRobustCommand*{\pluralraccessdisplay}[2]{%
9511   \gls@access@display{#1}{\glsentryfirstpluralaccess{#2}}%
9512 }

\symbolaccessdisplay As above but for the symbolaccess replacement text.
9513 \DeclareRobustCommand*{\symbolaccessdisplay}[2]{%
9514   \gls@access@display{#1}{\glsentrysymbolaccess{#2}}%
9515 }

```

```

pluralaccessdisplay As above but for the symbolpluralaccess replacement text.
9516 \DeclareRobustCommand*{\glssymbolpluralaccessdisplay}[2]{%
9517   \@gls@access@display{#1}{\glsentrysymbolpluralaccess{#2}}% 
9518 }

optionaccessdisplay As above but for the descriptionaccess replacement text.
9519 \DeclareRobustCommand*{\glsdescriptionaccessdisplay}[2]{%
9520   \@gls@access@display{#1}{\glsentrydescaccess{#2}}% 
9521 }

pluralaccessdisplay As above but for the descriptionpluralaccess replacement text.
9522 \DeclareRobustCommand*{\glsdescriptionpluralaccessdisplay}[2]{%
9523   \@gls@access@display{#1}{\glsentrydescpluralaccess{#2}}% 
9524 }

shortaccessdisplay As above but for the shortaccess replacement text.
9525 \DeclareRobustCommand*{\glsshortaccessdisplay}[2]{%
9526   \@gls@access@display{#1}{\glsentryshortaccess{#2}}% 
9527 }

pluralaccessdisplay As above but for the shortpluralaccess replacement text.
9528 \DeclareRobustCommand*{\glsshortpluralaccessdisplay}[2]{%
9529   \@gls@access@display{#1}{\glsentryshortpluralaccess{#2}}% 
9530 }

longaccessdisplay As above but for the longaccess replacement text.
9531 \DeclareRobustCommand*{\glslongaccessdisplay}[2]{%
9532   \@gls@access@display{#1}{\glsentrylongaccess{#2}}% 
9533 }

pluralaccessdisplay As above but for the longpluralaccess replacement text.
9534 \DeclareRobustCommand*{\glslongpluralaccessdisplay}[2]{%
9535   \@gls@access@display{#1}{\glsentrylongpluralaccess{#2}}% 
9536 }

\glsaccessdisplay Gets the replacement text corresponding to the named key given by the first
argument and calls the appropriate command defined above.
9537 \DeclareRobustCommand*{\glsaccessdisplay}[3]{%
9538   \@ifundefined{gls#1accessdisplay}%
9539   {%
9540     \PackageError{glossaries-accsupp}{No accessibility support
9541       for key '#1'}{}%
9542   }%
9543   {%
9544     \csname gls#1accessdisplay\endcsname{#2}{#3}%
9545   }%
9546 }

```

```

ls@default@entryfmt  Redefine the default entry format to use accessibility information
9547 \renewcommand*{\@@gls@default@entryfmt}[2]{%
9548   \ifdefempty\glscustomtext
9549   {%
9550     \glsifplural
9551   {%
9552     \glscapscase
9553   {%
9554     \ifglsused\glslabel
9555   {%
9556     #2{\glspluralaccessdisplay
9557       {\glsentryplural{\glslabel}}{\glslabel}}%
9558     {\glsdescriptionpluralaccessdisplay
9559       {\glsentrydescplural{\glslabel}}{\glslabel}}%
9560     {\glssymbolpluralaccessdisplay
9561       {\glsentrysymbolplural{\glslabel}}{\glslabel}}%
9562     {\glsinsert}%
9563   }%
9564   {%
9565     #1{\glsfirstpluralaccessdisplay
9566       {\glsentryfirstplural{\glslabel}}{\glslabel}}%
9567     {\glsdescriptionpluralaccessdisplay
9568       {\glsentrydescplural{\glslabel}}{\glslabel}}%
9569     {\glssymbolpluralaccessdisplay
9570       {\glsentrysymbolplural{\glslabel}}{\glslabel}}%
9571     {\glsinsert}%
9572   }%
9573 }%
9574 {%
9575     \ifglsused\glslabel
9576   {%
9577     #2{\glspluralaccessdisplay
9578       {\Glsentryplural{\glslabel}}{\glslabel}}%
9579     {\glsdescriptionpluralaccessdisplay
9580       {\glsentrydescplural{\glslabel}}{\glslabel}}%
9581     {\glssymbolpluralaccessdisplay
9582       {\glsentrysymbolplural{\glslabel}}{\glslabel}}%
9583     {\glsinsert}%
9584   }%
9585   {%

```

First use

```
9586      #1{\glsfirstpluralaccessdisplay
9587          {\Glsentryfirstplural{\glslabel}}{\glslabel}}%
9588          {\glsdescriptionpluralaccessdisplay
9589              {\Glsentrydescplural{\glslabel}}{\glslabel}}%
9590          {\glssymbolpluralaccessdisplay
9591              {\Glsentrysymbolplural{\glslabel}}{\glslabel}}%
9592              {\glsinsert}%
9593          }%
9594      }%
9595  {%
```

Make all upper case

```
9596      \ifglsused\glslabel
9597      {%
```

Subsequent use

```
9598      \MakeUppercase{%
9599          #2{\glspluralaccessdisplay
9600              {\Glsentryplural{\glslabel}}{\glslabel}}%
9601              {\glsdescriptionpluralaccessdisplay
9602                  {\Glsentrydescplural{\glslabel}}{\glslabel}}%
9603                  {\glssymbolpluralaccessdisplay
9604                      {\Glsentrysymbolplural{\glslabel}}{\glslabel}}%
9605                      {\glsinsert}}%
9606          }%
9607      {%
```

First use

```
9608      \MakeUppercase{%
9609          #1{\glsfirstpluralaccessdisplay
9610              {\Glsentryfirstplural{\glslabel}}{\glslabel}}%
9611              {\glsdescriptionpluralaccessdisplay
9612                  {\Glsentrydescplural{\glslabel}}{\glslabel}}%
9613                  {\glssymbolpluralaccessdisplay
9614                      {\Glsentrysymbolplural{\glslabel}}{\glslabel}}%
9615                      {\glsinsert}}%
9616          }%
9617      }%
9618      }%
9619  {%
```

Singular form

```
9620      \glscapscase
9621      {%
```

Don't adjust case

```
9622      \ifglsused\glslabel
9623      {%
```

Subsequent use

```

9624      #2{\glstextaccessdisplay
9625          {\glsentrytext{\glslabel}}{\glslabel}}%
9626          {\glsdescriptionaccessdisplay
9627              {\glsentrydesc{\glslabel}}{\glslabel}}%
9628          {\glssymbolaccessdisplay
9629              {\glsentrysymbol{\glslabel}}{\glslabel}}%
9630          {\glsinsert}%
9631      }%
9632  {%

```

First use

```

9633      #1{\glsfirstaccessdisplay
9634          {\glsentryfirst{\glslabel}}{\glslabel}}%
9635          {\glsdescriptionaccessdisplay
9636              {\glsentrydesc{\glslabel}}{\glslabel}}%
9637          {\glssymbolaccessdisplay
9638              {\glsentrysymbol{\glslabel}}{\glslabel}}%
9639          {\glsinsert}%
9640      }%
9641  }%
9642  {%

```

Make first letter upper case

```

9643      \ifglsused\glslabel
9644      {%

```

Subsequent use

```

9645      #2{\glstextaccessdisplay
9646          {\Glsentrytext{\glslabel}}{\glslabel}}%
9647          {\glsdescriptionaccessdisplay
9648              {\glsentrydesc{\glslabel}}{\glslabel}}%
9649          {\glssymbolaccessdisplay
9650              {\glsentrysymbol{\glslabel}}{\glslabel}}%
9651          {\glsinsert}%
9652      }%
9653  {%

```

First use

```

9654      #1{\glsfirstaccessdisplay
9655          {\Glsentryfirst{\glslabel}}{\glslabel}}%
9656          {\glsdescriptionaccessdisplay
9657              {\glsentrydesc{\glslabel}}{\glslabel}}%
9658          {\glssymbolaccessdisplay
9659              {\glsentrysymbol{\glslabel}}{\glslabel}}%
9660          {\glsinsert}%
9661      }%
9662  }%
9663  {%

```

Make all upper case

```

9664      \ifglsused\glslabel
9665      {%

```

Subsequent use

```
9666      \MakeUppercase{%
9667          #2{\gls{textaccessdisplay}
9668              {\glsentrytext{\glslabel}}{\glslabel}}%
9669          {\gls{descriptionaccessdisplay}
9670              {\glsentrydesc{\glslabel}}{\glslabel}}%
9671          {\gls{symbolaccessdisplay}
9672              {\glsentrysymbol{\glslabel}}{\glslabel}}%
9673          {\gls{insert}}}}%
9674      }%
9675      {%
```

First use

```
9676      \MakeUppercase{%
9677          #1{\gls{firstaccessdisplay}
9678              {\glsentryfirst{\glslabel}}{\glslabel}}%
9679          {\gls{descriptionaccessdisplay}
9680              {\glsentrydesc{\glslabel}}{\glslabel}}%
9681          {\gls{symbolaccessdisplay}
9682              {\glsentrysymbol{\glslabel}}{\glslabel}}%
9683          {\gls{insert}}}}%
9684      }%
9685      }%
9686      }%
9687      }%
9688      {%
```

Custom text provided in \glsdisp

```
9689      \ifglsused{\glslabel}%
9690      {%
```

Subsequent use

```
9691      #2{\gls{customtext}}%
9692          {\gls{descriptionaccessdisplay}
9693              {\glsentrydesc{\glslabel}}{\glslabel}}%
9694          {\gls{symbolaccessdisplay}
9695              {\glsentrysymbol{\glslabel}}{\glslabel}}%
9696          {\gls{insert}}}}%
9697      }%
9698      {%
```

First use

```
9699      #1{\gls{customtext}}%
9700          {\gls{descriptionaccessdisplay}
9701              {\glsentrydesc{\glslabel}}{\glslabel}}%
9702          {\gls{symbolaccessdisplay}
9703              {\glsentrysymbol{\glslabel}}{\glslabel}}%
9704          {\gls{insert}}}}%
9705      }%
9706      }%
9707 }
```

```

\glsgenentryfmt  Redefine to use accessibility information.

9708 \renewcommand*\glsgenentryfmt{%
9709   \ifdefempty\glscustomtext
9710   {%
9711     \glsifplural
9712   }%
9713   Plural form
9714   \glscapscase
9715   {%
9716     \ifglsused\glslabel
9717     \glspluralaccessdisplay
9718       {\glsentryplural{\glslabel}}{\glslabel}%
9719     \glsinsert
9720   }%
9721   {%
9722   First use
9723   \glsfirstpluralaccessdisplay
9724     {\glsentryfirstplural{\glslabel}}{\glslabel}%
9725     \glsinsert
9726   }%
9727   {%
9728   Make first letter upper case
9729   \ifglsused\glslabel
9730   {%
9731     Subsequent use.
9732     \glspluralaccessdisplay
9733       {\Glsentryplural{\glslabel}}{\glslabel}%
9734     \glsinsert
9735   }%
9736   {%
9737     \glsinsert
9738   }%
9739   {%
9740   Make all upper case
9741   \ifglsused\glslabel
9742   {%

```

Subsequent use

```
9743      \glspluralaccessdisplay
9744          {\mfirstucMakeUppercase{\glsentryplural{\glslabel}}}{%
9745              {\glslabel}%
9746          \mfirstucMakeUppercase{\glsinsert}%
9747      }%
9748  {%
```

First use

```
9749      \glsfirstpluralacessdisplay
9750          {\mfirstucMakeUppercase{\glsentryfirstplural{\glslabel}}}{%
9751              {\glslabel}%
9752          \mfirstucMakeUppercase{\glsinsert}%
9753      }%
9754  }%
9755  {%
9756  {%
```

Singular form

```
9757      \glscapscase
9758  {%
```

Don't adjust case

```
9759      \ifglsused\glslabel
9760  {%
```

Subsequent use

```
9761      \glstextaccessdisplay{\glsentrytext{\glslabel}}{\glslabel}%
9762          \glsinsert
9763      }%
9764  {%
```

First use

```
9765      \glsfirstaccessdisplay{\glsentryfirst{\glslabel}}{\glslabel}%
9766          \glsinsert
9767      }%
9768  }%
9769  {%
```

Make first letter upper case

```
9770      \ifglsused\glslabel
9771  {%
```

Subsequent use

```
9772      \glstextaccessdisplay{\Glsentrytext{\glslabel}}{\glslabel}%
9773          \glsinsert
9774      }%
9775  {%
```

First use

```
9776      \glsfirstaccessdisplay{\Glsentryfirst{\glslabel}}{\glslabel}%
9777          \glsinsert
```

```

9778      }%
9779      }%
9780      {%
   Make all upper case
9781      \ifglsused\glslabel
9782      {%
   Subsequent use
9783      \glstextaccessdisplay
9784          {\mfirstucMakeUppercase{\glsentrytext{\glslabel}}}{\glslabel}%
9785          \mfirstucMakeUppercase{\glsinsert}%
9786      }%
9787      {%
   First use
9788      \glsfirstaccessdisplay
9789          {\mfirstucMakeUppercase{\glsentryfirst{\glslabel}}}{\glslabel}%
9790          \mfirstucMakeUppercase{\glsinsert}%
9791      }%
9792      }%
9793      }%
9794  }%
9795  {%

```

Custom text provided in `\glsdisp`. (The insert should be empty at this point.) The accessibility information, if required, will have to be explicitly included in the custom text.

```

9796  \glscustomtext\glsinsert
9797  }%
9798 }

```

`\glsgenacfmt` Redefine to include accessibility information.

```

9799 \renewcommand*{\glsgenacfmt}{%
9800   \ifdefempty\glscustomtext
9801   {%
9802     \ifglsused\glslabel
9803     {%

```

Subsequent use:

```

9804   \glsifplural
9805   {%

```

Subsequent plural form:

```

9806   \glscapscase
9807   {%

```

Subsequent plural form, don't adjust case:

```

9808   \acronymfont
9809   {\glsshortpluralaccessdisplay
9810       {\glsentryshortpl{\glslabel}}{\glslabel}%
9811       \glsinsert

```

```
9812      }%
9813      {%
```

Subsequent plural form, make first letter upper case:

```
9814      \acronymfont
9815      {\glsshortpluralaccessdisplay
9816          {\Glsentryshortpl{\glslabel}}{\glslabel}}%
9817      \glsinsert
9818      }%
9819      {%
```

Subsequent plural form, all caps:

```
9820      \mfirstucMakeUppercase
9821      {\acronymfont
9822          {\glsshortpluralaccessdisplay
9823              {\Glsentryshortpl{\glslabel}}{\glslabel}}%
9824          \glsinsert}%
9825      }%
9826      }%
9827      {%
```

Subsequent singular form

```
9828      \glscapscase
9829      {%
```

Subsequent singular form, don't adjust case:

```
9830      \acronymfont
9831      {\glsshortaccessdisplay{\Glsentryshort{\glslabel}}{\glslabel}}%
9832      \glsinsert
9833      }%
9834      {%
```

Subsequent singular form, make first letter upper case:

```
9835      \acronymfont
9836      {\glsshortaccessdisplay{\Glsentryshort{\glslabel}}{\glslabel}}%
9837      \glsinsert
9838      }%
9839      {%
```

Subsequent singular form, all caps:

```
9840      \mfirstucMakeUppercase
9841      {\acronymfont{%
9842          \glsshortaccessdisplay{\Glsentryshort{\glslabel}}{\glslabel}}%
9843          \glsinsert}%
9844      }%
9845      }%
9846      }%
9847      {%
```

First use:

```
9848      \glsifplural
9849      {%
```

First use plural form:

```
9850      \glscapscase
9851      {%
```

First use plural form, don't adjust case:

```
9852      \genplacrfullformat{\glslabel}{\glsinsert}%
9853      }%
9854      {%
```

First use plural form, make first letter upper case:

```
9855      \Genplacrfullformat{\glslabel}{\glsinsert}%
9856      }%
9857      {%
```

First use plural form, all caps:

```
9858      \mfirstucMakeUppercase
9859      {\genplacrfullformat{\glslabel}{\glsinsert}}%
9860      }%
9861      }%
9862      {%
```

First use singular form

```
9863      \glscapscase
9864      {%
```

First use singular form, don't adjust case:

```
9865      \genacrfullformat{\glslabel}{\glsinsert}%
9866      }%
9867      {%
```

First use singular form, make first letter upper case:

```
9868      \Genacrfullformat{\glslabel}{\glsinsert}%
9869      }%
9870      {%
```

First use singular form, all caps:

```
9871      \mfirstucMakeUppercase
9872      {\genacrfullformat{\glslabel}{\glsinsert}}%
9873      }%
9874      }%
9875      }%
9876      }%
9877      {%
```

User supplied text. (The insert should be empty at this point.) The accessibility information, if required, will have to be explicitly included in the custom text.

```
9878      \glscustomtext
9879      }%
9880 }
```

\genacrfullformat Redefine to include accessibility information.

```
9881 \renewcommand*{\genacrfullformat}[2]{%
```

```
9882     \glslongaccessdisplay{\glsentrylong{#1}}{#1}#2\space  
9883     (\glsshortaccessdisplay{\protect\firstacronymfont{\glsentryshort{#1}}}{#1})%  
9884 }
```

\Genacrfullformat Redefine to include accessibility information.

```
9885 \renewcommand*{\Genacrfullformat}[2]{%  
9886     \glslongaccessdisplay{\Glsentrylong{#1}}{#1}#2\space  
9887     (\glsshortaccessdisplay{\protect\firstacronymfont{\Glsentryshort{#1}}}{#1})%  
9888 }
```

\genplacrfullformat Redefine to include accessibility information.

```
9889 \renewcommand*{\genplacrfullformat}[2]{%  
9890     \glslongpluralaccessdisplay{\glsentrylongpl{#1}}{#1}#2\space  
9891     (\glsshortpluralaccessdisplay  
9892         {\protect\firstacronymfont{\glsentryshortpl{#1}}}{#1})%  
9893 }
```

\Genplacrfullformat Redefine to include accessibility information.

```
9894 \renewcommand*{\Genplacrfullformat}[2]{%  
9895     \glslongpluralaccessdisplay{\Glsentrylongpl{#1}}{#1}#2\space  
9896     (\glsshortpluralaccessdisplay  
9897         {\protect\firstacronymfont{\glsentryshortpl{#1}}}{#1})%  
9898 }
```

\@acrshort

```
9899 \def\@acrshort#1#2[#3]{%  
9900     \glsdoifexists{#2}{%  
9901         {  
9902             \let\do@gls@link@checkfirsthyper\relax  
9903             \let\glsifplural@\secondoftwo  
9904             \let\glscapscase@\firstofthree  
9905             \let\glsinsert@\empty  
9906             \def\glscustomtext{  
9907                 \acronymfont{\glsshortaccessdisplay{\glsentryshort{#2}}}{#2}}#3%  
9908         }%  
9909         \Call\@gls@link  
9910             \gls@link[#1]{#2}{\csname gls@\glstype @entryfmt\endcsname}{%  
9911         }%
```

\@Acrshort

```
9912 \def\@Acrshort#1#2[#3]{%  
9913     \glsdoifexists{#2}{%  
9914         {  
9915             \let\do@gls@link@checkfirsthyper\relax
```

```

9916      \let\glsifplural \@secondoftwo
9917      \let\glscapscase \@secondofthree
9918      \let\glsinsert \@empty
9919      \def\glscustomtext{%
9920          \acronymfont{\glsshortaccessdisplay{\Glsentryshort{#2}}{#2}}#3%
9921      }%
9922
Call \gls@link
9922      \gls@link[#1]{#2}{\csname gls@\glstype @entryfmt\endcsname}%
9923  }%
9924 }

\@ACRshort
9925 \def\@ACRshort#1#2[#3]{%
9926   \glsdoifexists{#2}%
9927   {%
9928     \let\do@gls@link@checkfirsthyper\relax
9929     \let\glsifplural \@secondoftwo
9930     \let\glscapscase \@thirdofthree
9931     \let\glsinsert \@empty
9932     \def\glscustomtext{%
9933       \acronymfont{\glsshortaccessdisplay
9934           {\MakeUppercase{\glsentryshort{#2}}}{#2}}#3%
9935     }%
9936
Call \gls@link
9936      \gls@link[#1]{#2}{\csname gls@\glstype @entryfmt\endcsname}%
9937  }%
9938 }

\@acrlong
9939 \def\@acrlong#1#2[#3]{%
9940   \glsdoifexists{#2}%
9941   {%
9942     \let\do@gls@link@checkfirsthyper\relax
9943     \let\glsifplural \@secondoftwo
9944     \let\glscapscase \@firstofthree
9945     \let\glsinsert \@empty
9946     \def\glscustomtext{%
9947       \acronymfont{\glslongaccessdisplay{\glsentrylong{#2}}{#2}}#3%
9948     }%
9949
Call \gls@link
9949      \gls@link[#1]{#2}{\csname gls@\glstype @entryfmt\endcsname}%
9950  }%
9951 }

```

```

\@Acrlong
9952 \def\@Acrlong#1#2[#3]{%
9953   \glsdoifexists{#2}%
9954   {%
9955     \let\do@gls@link@checkfirsthyper\relax
9956     \let\glsifplural\@secondoftwo
9957     \let\glscapscase\@firstofthree
9958     \let\glsinsert\@empty
9959     \def\glscustomtext{%
9960       \acronymfont{\glslongaccessdisplay{\Glsentrylong{#2}}{#2}}#3%
9961     }%
9962     Call \gls@link
9963     \gls@link[#1]{#2}{\csname gls@\glstype @entryfmt\endcsname}%
9964   }%
\@ACRlong
9965 \def\@ACRlong#1#2[#3]{%
9966   \glsdoifexists{#2}%
9967   {%
9968     \let\do@gls@link@checkfirsthyper\relax
9969     \let\glsifplural\@secondoftwo
9970     \let\glscapscase\@firstofthree
9971     \let\glsinsert\@empty
9972     \def\glscustomtext{%
9973       \acronymfont{\glslongaccessdisplay{%
9974         \MakeUppercase{\Glsentrylong{#2}}}}{#2}#3}%
9975     }%
9976     Call \gls@link
9977     \gls@link[#1]{#2}{\csname gls@\glstype @entryfmt\endcsname}%
9978   }%

```

7.3 Displaying the Glossary

We need to redefine the way the glossary entries are formatted to include the accessibility support. The predefined glossary styles use `\glossentryname`, `\glossentrydesc` and `\glossentrysymbol`, but we need to provide compatibility with earlier versions in case users have defined their own styles using `\accsuppglossaryentryfield` and `\accsuppglossarysubentryfield`.

Now redefine `\glossentryname`, `\glossentrydesc` and `\glossentrysymbol` etc so they use the accessibility stuff.

```

9979 \renewcommand*\glossentryname[1]{%
9980   \glsdoifexists{#1}%
9981   {%

```

```

9982     \glsnamefont{\glsnameaccessdisplay{\glsentryname{#1}}{#1}}%
9983   }%
9984 }

9985 \renewcommand*{\glossentryname}[1]{%
9986   \glsdoifexists{#1}%
9987   {%
9988     \glsnamefont{\glsnameaccessdisplay{\Glsentryname{#1}}{#1}}%
9989   }%
9990 }

9991 \renewcommand*{\glossentrydesc}[1]{%
9992   \glsdoifexists{#1}%
9993   {%
9994     \glsdescriptionaccessdisplay{\glsentrydesc{#1}}{#1}}%
9995   }%
9996 }

9997 \renewcommand*{\Glossentrydesc}[1]{%
9998   \glsdoifexists{#1}%
9999   {%
10000     \glsdescriptionaccessdisplay{\Glsentrydesc{#1}}{#1}}%
10001   }%
10002 }

10003 \renewcommand*{\glossentrysymbol}[1]{%
10004   \glsdoifexists{#1}%
10005   {%
10006     \glssymbolaccessdisplay{\glsentrysymbol{#1}}{#1}}%
10007   }%
10008 }

10009 \renewcommand*{\Glossentrysymbol}[1]{%
10010   \glsdoifexists{#1}%
10011   {%
10012     \glssymbolaccessdisplay{\Glsentrysymbol{#1}}{#1}}%
10013   }%
10014 }

pglossaryentryfield
10015 \newcommand*{\accsuppglossaryentryfield}[5]{%
10016   \glossaryentryfield{#1}%
10017   {\glsnameaccessdisplay{#2}{#1}}%
10018   {\glsdescriptionaccessdisplay{#3}{#1}}%
10019   {\glssymbolaccessdisplay{#4}{#1}}{#5}%
10020 }

glossarysubentryfield
10021 \newcommand*{\accsuppglossarysubentryfield}[6]{%
10022   \glossarysubentryfield{#1}{#2}%
10023   {\glsnameaccessdisplay{#3}{#2}}%
10024   {\glsdescriptionaccessdisplay{#4}{#2}}%

```

```
10025  {\glssymbolaccessdisplay{#5}{#2}{#6}%
10026 }
```

7.4 Acronyms

Redefine acronym styles provided by glossaries:

long-short *<long> (<short>)* acronym style.

```
10027 \renewacronymstyle{long-short}%
10028 {%
```

Check for long form in case this is a mixed glossary.

```
10029 \ifglshaslong{\glslabel}{\glsgenacfmt}{\glsgenentryfmt}%
10030 }%
10031 {%
10032 \renewcommand*\GenericAcronymFields{description={\the\glslongtok}}%
10033 \renewcommand*\genacrfullformat[2]{%
10034   \glslongaccessdisplay{\glsentrylong{##1}{##1}##2\space
10035   (\glsshortaccessdisplay
10036     {\protect\firstracronymfont{\glsentryshort{##1}}{##1}})%
10037 }%
10038 \renewcommand*\Genacrfullformat[2]{%
10039   \glslongaccessdisplay{\Glsentrylong{##1}{##1}##2\space
10040   (\glsshortaccessdisplay
10041     {\protect\firstracronymfont{\glsentryshort{##1}}{##1}})%
10042 }%
10043 \renewcommand*\genplacrfullformat[2]{%
10044   \glslongpluralaccessdisplay{\glsentrylongpl{##1}{##1}##2\space
10045   (\glsshortpluralaccessdisplay
10046     {\protect\firstracronymfont{\glsentryshortpl{##1}}{##1}})%
10047 }%
10048 \renewcommand*\Genplacrfullformat[2]{%
10049   \glslongpluralaccessdisplay{\Glsentrylongpl{##1}{##1}##2\space
10050   (\glsshortpluralaccessdisplay
10051     {\protect\firstracronymfont{\glsentryshortpl{##1}}{##1}})%
10052 }%
10053 \renewcommand*\acronymentry[1]{%
10054   \glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}{##1}}%
10055 \renewcommand*\acronymsort[2]{##1}%
10056 \renewcommand*\acronymfont[1]{##1}%
10057 \renewcommand*\firstracronymfont[1]{\acronymfont{##1}}%
10058 \renewcommand*\acrpluralsuffix{\glspluralsuffix}%
10059 }
```

short-long *<short> (<long>)* acronym style.

```
10060 \renewacronymstyle{short-long}%
10061 {%
```

Check for long form in case this is a mixed glossary.

```
10062 \ifglshaslong{\glslabel}{\glsgenacfmt}{\glsgenentryfmt}%
```

```

10063 }%
10064 {%
10065 \renewcommand*\GenericAcronymFields{description={\the\glslongtok}}%
10066 \renewcommand*\genacrfullformat[2]{%
10067 \glsshortaccessdisplay
10068 {\protect\firstacronymfont{\glsentryshort{\#1}}}{\#1}\#2\space
10069 (\glslongaccessdisplay{\glsentrylong{\#1}}{\#1})%
10070 }%
10071 \renewcommand*\Genacrfullformat[2]{%
10072 \glsshortaccessdisplay
10073 {\protect\firstacronymfont{\Glsentryshort{\#1}}}{\#1}\#2\space
10074 (\glslongaccessdisplay{\glsentrylong{\#1}}{\#1})%
10075 }%
10076 \renewcommand*\genplacrfullformat[2]{%
10077 \glsshortpluralaccessdisplay
10078 {\protect\firstacronymfont{\glsentryshortpl{\#1}}}{\#1}\#2\space
10079 (\glslongpluralaccessdisplay
10080 {\glsentrylongpl{\#1}}{\#1})%
10081 }%
10082 \renewcommand*\Genplacrfullformat[2]{%
10083 \glsshortpluralaccessdisplay
10084 {\protect\firstacronymfont{\Glsentryshortpl{\#1}}}{\#1}\#2\space
10085 (\glslongpluralaccessdisplay{\glsentrylongpl{\#1}}{\#1})%
10086 }%
10087 \renewcommand*\acronymentry[1]{%
10088 \glsshortaccessdisplay{\acronymfont{\glsentryshort{\#1}}}{\#1}}%
10089 \renewcommand*\acronymsort[2]{\#1}%
10090 \renewcommand*\acronymfont[1]{\#1}%
10091 \renewcommand*\firstacronymfont[1]{\acronymfont{\#1}}%
10092 \renewcommand*\acrpluralsuffix{\glspluralsuffix}%
10093 }

```

long-short-desc *<long>* (*{<short>}*) acronym style that has an accompanying description (which the user needs to supply).

```

10094 \renewacronymstyle{long-short-desc}%
10095 {%
10096 \GlsUseAcrEntryDispStyle{long-short}%
10097 }%
10098 {%
10099 \GlsUseAcrStyleDefs{long-short}%
10100 \renewcommand*\GenericAcronymFields{}%
10101 \renewcommand*\acronymsort[2]{\#2}%
10102 \renewcommand*\acronymentry[1]{%
10103 \glslongaccessdisplay{\glsentrylong{\#1}}{\#1}\space
10104 (\glsshortaccessdisplay{\acronymfont{\glsentryshort{\#1}}}{\#1})}%
10105 }

```

long-sc-short-desc *<long>* (*\textsc{<short>}*) acronym style that has an accompanying description (which the user needs to supply).

```

10106 \renewacronymstyle{long-sc-short-desc}%
10107 {%
10108   \GlsUseAcrEntryDispStyle{long-sc-short}%
10109 }%
10110 {%
10111   \GlsUseAcrStyleDefs{long-sc-short}%
10112   \renewcommand*\{\GenericAcronymFields\}{}%
10113   \renewcommand*\{\acronymsort}[2]{##2}%
10114   \renewcommand*\{\acronymentry}[1]{%
10115     \glslongaccessdisplay{\glsentrylong{##1}}{##1}\space
10116     (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1})}%
10117 }

```

long-sm-short-desc *<long>* (*\textsmaller{<short>}*) acronym style that has an accompanying description (which the user needs to supply).

```

10118 \renewacronymstyle{long-sm-short-desc}%
10119 {%
10120   \GlsUseAcrEntryDispStyle{long-sm-short}%
10121 }%
10122 {%
10123   \GlsUseAcrStyleDefs{long-sm-short}%
10124   \renewcommand*\{\GenericAcronymFields\}{}%
10125   \renewcommand*\{\acronymsort}[2]{##2}%
10126   \renewcommand*\{\acronymentry}[1]{%
10127     \glslongaccessdisplay{\glsentrylong{##1}}{##1}\space
10128     (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1})}%
10129 }

```

short-long-desc *<short>* (*{<long>}*) acronym style that has an accompanying description (which the user needs to supply).

```

10130 \renewacronymstyle{short-long-desc}%
10131 {%
10132   \GlsUseAcrEntryDispStyle{short-long}%
10133 }%
10134 {%
10135   \GlsUseAcrStyleDefs{short-long}%
10136   \renewcommand*\{\GenericAcronymFields\}{}%
10137   \renewcommand*\{\acronymsort}[2]{##2}%
10138   \renewcommand*\{\acronymentry}[1]{%
10139     \glslongaccessdisplay{\glsentrylong{##1}}{##1}\space
10140     (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1})}%
10141 }

```

sc-short-long-desc *<long>* (*\textsc{<short>}*) acronym style that has an accompanying description (which the user needs to supply).

```

10142 \renewacronymstyle{sc-short-long-desc}%
10143 {%
10144   \GlsUseAcrEntryDispStyle{sc-short-long}%
10145 }

```

```

10146 {%
10147   \GlsUseAcrStyleDefs{sc-short-long}%
10148   \renewcommand*\{\GenericAcronymFields\}{}
10149   \renewcommand*\{\acronymsort}[2]{##2}%
10150   \renewcommand*\{\acronymentry}[1]{%
10151     \glslongaccessdisplay{\glsentrylong{##1}}{##1}\space
10152     (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1})}%
10153 }

```

sm-short-long-desc *<long>* (*\textsmaller{<short>}*) acronym style that has an accompanying description (which the user needs to supply).

```

10154 \renewacronymstyle{sm-short-long-desc}%
10155 {%
10156   \GlsUseAcrEntryDispStyle{sm-short-long}%
10157 }%
10158 {%
10159   \GlsUseAcrStyleDefs{sm-short-long}%
10160   \renewcommand*\{\GenericAcronymFields\}{}
10161   \renewcommand*\{\acronymsort}[2]{##2}%
10162   \renewcommand*\{\acronymentry}[1]{%
10163     \glslongaccessdisplay{\glsentrylong{##1}}{##1}\space
10164     (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1})}%
10165 }

```

dua *<long>* only acronym style.

```

10166 \renewacronymstyle{dua}%
10167 {%

```

Check for long form in case this is a mixed glossary.

```

10168 \ifdefempty\glscustomtext
10169 {%
10170   \ifglslabel{%
10171     {%
10172       \glsifplural
10173     {%

```

Plural form:

```

10174   \glscapscase
10175   {%

```

Plural form, don't adjust case:

```

10176   \glslongpluralaccessdisplay{\glsentrylongpl{\glslabel}}{\glslabel}%
10177   \glsinsert
10178   {%
10179   {%

```

Plural form, make first letter upper case:

```

10180   \glslongpluralaccessdisplay{\Glsentrylongpl{\glslabel}}{\glslabel}%
10181   \glsinsert
10182   {%
10183   {%

```

Plural form, all caps:

```
10184      \glslongpluralaccessdisplay
10185          {\mfirstucMakeUppercase{\glsentrylongpl{\glslabel}}}{\glslabel}%
10186          \mfirstucMakeUppercase{\glsinsert}%
10187          }%
10188      }%
10189      {%
```

Singular form

```
10190      \glscapscase
10191      {%
```

Singular form, don't adjust case:

```
10192      \glslongaccessdisplay{\glsentrylong{\glslabel}}{\glslabel}\glsinsert
10193      }%
10194      {%
```

Subsequent singular form, make first letter upper case:

```
10195      \glslongaccessdisplay{\Glsentrylong{\glslabel}}{\glslabel}\glsinsert
10196      }%
10197      {%
```

Subsequent singular form, all caps:

```
10198      \glslongaccessdisplay
10199          {\mfirstucMakeUppercase
10200              {\glsentrylong{\glslabel}\glsinsert}}{\glslabel}%
10201          \mfirstucMakeUppercase{\glsinsert}%
10202          }%
10203      }%
10204      {%
10205      {%
```

Not an acronym:

```
10206      \glsgenentryfmt
10207      }%
10208      }%
10209      {\glscustomtext\glsinsert}%
10210 }%
10211 {%
10212 \renewcommand*{\GenericAcronymFields}{description={\the\glslongtok}}%
10213 \renewcommand*{\acrfullfmt}[3]{%
10214     \glslink[##1]{##2}{%
10215         \glslongaccessdisplay{\glsentrylong{##2}}{##2}##3\space
10216         (\glsshortaccessdisplay{\acrfont{\glsentryshort{##2}}}{##2})}}%
10217 \renewcommand*{\Acrfullfmt}[3]{%
10218     \glslink[##1]{##2}{%
10219         \glslongaccessdisplay{\Glsentrylong{##2}}{##2}##3\space
10220         (\glsshortaccessdisplay{\acrfont{\glsentryshort{##2}}}{##2})}}%
10221 \renewcommand*{\ACRfullfmt}[3]{%
10222     \glslink[##1]{##2}{%
10223         \glslongaccessdisplay
```

```

10224      {\mfirstucMakeUppercase{\glsentrylong{##2}}{##2}##3\space
10225      (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##2}}}{##2})}}}%
10226 \renewcommand*{\acrfullplfmt}[3]{%
10227   \glslink[##1]{##2}{%
10228     \glslongpluralaccessdisplay
10229     {\glsentrylongpl{##2}}{##2}##3\space
10230     (\glsshortpluralaccessdisplay
10231     {\acronymfont{\glsentryshortpl{##2}}}{##2})}}}%
10232 \renewcommand*{\Acrfullplfmt}[3]{%
10233   \glslink[##1]{##2}{%
10234     \glslongpluralaccessdisplay
10235     {\Glsentrylongpl{##2}}{##2}##3\space
10236     (\glsshortpluralaccessdisplay
10237     {\acronymfont{\glsentryshortpl{##2}}}{##2})}}}%
10238 \renewcommand*{\ACRfullplfmt}[3]{%
10239   \glslink[##1]{##2}{%
10240     \glslongpluralaccessdisplay
10241     {\mfirstucMakeUppercase{\glsentrylongpl{##2}}}{##2}##3\space
10242     (\glsshortpluralaccessdisplay
10243     {\acronymfont{\glsentryshortpl{##2}}}{##2})}}}%
10244 \renewcommand*{\glsentryfull}[1]{%
10245   \glslongaccessdisplay{\glsentrylong{##1}}\space
10246   (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1})}%
10247 }%
10248 \renewcommand*{\Glsentryfull}[1]{%
10249   \glslongaccessdisplay{\Glsentrylong{##1}}{##1}\space
10250   (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1})}%
10251 }%
10252 \renewcommand*{\glsentryfullpl}[1]{%
10253   \glslongpluralaccessdisplay{\glsentrylongpl{##1}}{##1}\space
10254   (\glsshortpluralaccessdisplay{\acronymfont{\glsentryshortpl{##1}}}{##1})}%
10255 }%
10256 \renewcommand*{\Glsentryfullpl}[1]{%
10257   \glslongpluralaccessdisplay{\Glsentrylongpl{##1}}{##1}\space
10258   (\glsshortpluralaccessdisplay{\acronymfont{\glsentryshortpl{##1}}}{##1})}%
10259 }%
10260 \renewcommand*{\acronymentry}[1]{%
10261   \glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1}}%
10262 \renewcommand*{\acronymsort}[2]{##1}%
10263 \renewcommand*{\acronymfont}[1]{##1}%
10264 \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}%
10265 }

```

dua-desc *<long>* only acronym style with user-supplied description.

```

10266 \renewacronymstyle{dua-desc}%
10267 }%
10268   \GlsUseAcrEntryDispStyle{dua}%
10269 }%
10270 }%

```

```

10271 \GlsUseAcrStyleDefs{dua}%
10272 \renewcommand*\GenericAcronymFields{}%
10273 \renewcommand*\acronymentry}[1]{%
10274   \glslongaccessdisplay{\acronymfont{\glsentrylong{##1}}}{##1}%
10275 \renewcommand*\acronymsort}[2]{##2}%
10276 }%

```

`footnote <short>\footnote{<long>} acronym style.`

```

10277 \renewacronymstyle{footnote}%
10278 }%

```

Check for long form in case this is a mixed glossary.

```

10279 \ifglshaslong{\glslabel}{\glsgenacfmt}{\glsgenentryfmt}%
10280 }%
10281 }%
10282 \renewcommand*\GenericAcronymFields{description={\the\glslongtok}}%

```

Need to ensure hyperlinks are switched off on first use:

```

10283 \glshyperfirstfalse
10284 \renewcommand*\genacrfullformat}[2]{%
10285   \glsshortaccessdisplay
10286   {\protect\firstacronymfont{\glsentryshort{##1}}}{##1}##2%
10287   \protect\footnote{\glslongaccessdisplay{\glsentrylong{##1}}{##1}}%
10288 }%
10289 \renewcommand*\Genacrfullformat}[2]{%
10290   \glsshortaccessdisplay
10291   {\firstacronymfont{\Glsentryshort{##1}}}{##1}##2%
10292   \protect\footnote{\glslongaccessdisplay{\glsentrylong{##1}}{##1}}%
10293 }%
10294 \renewcommand*\genplacrfullformat}[2]{%
10295   \glsshortpluralaccessdisplay
10296   {\protect\firstacronymfont{\glsentryshortpl{##1}}}{##1}##2%
10297   \protect\footnote{\glslongpluralaccessdisplay{\glsentrylongpl{##1}}{##1}}%
10298 }%
10299 \renewcommand*\Genplacrfullformat}[2]{%
10300   \glsshortpluralaccessdisplay
10301   {\protect\firstacronymfont{\Glsentryshortpl{##1}}}{##1}##2%
10302   \protect\footnote{\glslongpluralaccessdisplay{\glsentrylongpl{##1}}{##1}}%
10303 }%
10304 \renewcommand*\acronymentry}[1]{%
10305   \glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1}%
10306 \renewcommand*\acronymsort}[2]{##1}%
10307 \renewcommand*\acronymfont}[1]{##1}%
10308 \renewcommand*\acrpluralsuffix}{\glspluralsuffix}%

```

Don't use footnotes for \acrfull:

```

10309 \renewcommand*\acrfullfmt}[3]{%
10310   \glslink[##1]{##2}{%
10311     \glsshortaccessdisplay{\acronymfont{\glsentryshort{##2}}}{##2}##3\space
10312     (\glslongaccessdisplay{\glsentrylong{##2}}{##2})}%

```

```

10313 \renewcommand*{\Acrfullfmt}[3]{%
10314   \glslink[##1]{##2}{%
10315     \glsshortaccessdisplay{\acronymfont{\Glsentryshort{##2}}}{##2}##3\space
10316     (\glslongaccessdisplay{\glsentrylong{##2}}{##2})}}%
10317 \renewcommand*{\ACRfullfmt}[3]{%
10318   \glslink[##1]{##2}{%
10319     \glsshortaccessdisplay
10320       {\mfirstucMakeUppercase
10321         {\acronymfont{\glsentryshort{##2}}}{##2}##3\space
10322         (\glslongaccessdisplay{\glsentrylong{##2}}{##2})}}}}%
10323 \renewcommand*{\acrfullplfmt}[3]{%
10324   \glslink[##1]{##2}{%
10325     \glsshortpluralaccessdisplay
10326       {\acronymfont{\glsentryshortpl{##2}}}{##2}##3\space
10327       (\glslongpluralaccessdisplay{\glsentrylongpl{##2}}{##2})}}}}%
10328 \renewcommand*{\Acrfullplfmt}[3]{%
10329   \glslink[##1]{##2}{%
10330     \glsshortpluralaccessdisplay
10331       {\acronymfont{\glsentryshortpl{##2}}}{##2}##3\space
10332       (\glslongpluralaccessdisplay{\glsentrylongpl{##2}}{##2})}}}}%
10333 \renewcommand*{\ACRfullplfmt}[3]{%
10334   \glslink[##1]{##2}{%
10335     \glsshortpluralaccessdisplay
10336       {\mfirstucMakeUppercase
10337         {\acronymfont{\glsentryshortpl{##2}}}{##2}##3\space
10338         (\glslongpluralaccessdisplay{\glsentrylongpl{##2}}{##2})}}}}%

```

Similarly for \glsentryfull etc:

```

10339 \renewcommand*{\glsentryfull}[1]{%
10340   \glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}}{##1}\space
10341   (\glslongaccessdisplay{\glsentrylong{##1}}{##1})}}%
10342 \renewcommand*{\Glsentryfull}[1]{%
10343   \glsshortaccessdisplay{\acronymfont{\Glsentryshort{##1}}}{##1}\space
10344   (\glslongaccessdisplay{\glsentrylong{##1}}{##1})}}%
10345 \renewcommand*{\glsentryfullpl}[1]{%
10346   \glsshortpluralaccessdisplay
10347     {\acronymfont{\glsentryshortpl{##1}}}{##1}\space
10348     (\glslongpluralaccessdisplay{\glsentrylongpl{##1}}{##1})}}}}%
10349 \renewcommand*{\Glsentryfullpl}[1]{%
10350   \glsshortpluralaccessdisplay
10351     {\acronymfont{\Glsentryshortpl{##1}}}{##1}\space
10352     (\glslongpluralaccessdisplay{\glsentrylongpl{##1}}{##1})}}}}%
10353 }

```

footnote-sc \textsc{<short>} \footnote{<long>} acronym style.

```

10354 \renewacronymstyle{footnote-sc}%
10355 {%
10356   \GlsUseAcrEntryDispStyle{footnote}%
10357 }%
10358 {%

```

```

10359 \GlsUseAcrStyleDefs{footnote}%
10360 \renewcommand{\acronymentry}[1]{%
10361   \glsshortaccessdisplay{\acronymfont{\glsentryshort{\##1}}}{\##1}%
10362 \renewcommand{\acronymfont}[1]{\textsc{\##1}}%
10363 \renewcommand*{\acrpluralsuffix}{\glstextup{\glspluralsuffix}}%
10364 }%

```

`footnote-sm` `\textsmaller{\langle short \rangle}\footnote{\langle long \rangle}` acronym style.

```

10365 \renewacronymstyle{footnote-sm}%
10366 {%
10367 \GlsUseAcrEntryDispStyle{footnote}%
10368 }%
10369 {%
10370 \GlsUseAcrStyleDefs{footnote}%
10371 \renewcommand{\acronymentry}[1]{%
10372   \glsshortaccessdisplay{\acronymfont{\glsentryshort{\##1}}}{\##1}%
10373 \renewcommand{\acronymfont}[1]{\textsmaller{\##1}}%
10374 \renewcommand*{\acrpluralsuffix}{\glspluralsuffix}}%
10375 }%

```

`footnote-desc` `\langle short \rangle\footnote{\langle long \rangle}` acronym style that has an accompanying description (which the user needs to supply).

```

10376 \renewacronymstyle{footnote-desc}%
10377 {%
10378 \GlsUseAcrEntryDispStyle{footnote}%
10379 }%
10380 {%
10381 \GlsUseAcrStyleDefs{footnote}%
10382 \renewcommand*{\GenericAcronymFields}{}%
10383 \renewcommand*{\acronymsort}[2]{\##2}%
10384 \renewcommand*{\acronymentry}[1]{%
10385   \glslongaccessdisplay{\glsentrylong{\##1}}{\##1}\space
10386   (\glsshortaccessdisplay{\acronymfont{\glsentryshort{\##1}}}{\##1})}%
10387 }%

```

`footnote-sc-desc` `\textsc{\langle short \rangle}\footnote{\langle long \rangle}` acronym style that has an accompanying description (which the user needs to supply).

```

10388 \renewacronymstyle{footnote-sc-desc}%
10389 {%
10390 \GlsUseAcrEntryDispStyle{footnote-sc}%
10391 }%
10392 {%
10393 \GlsUseAcrStyleDefs{footnote-sc}%
10394 \renewcommand*{\GenericAcronymFields}{}%
10395 \renewcommand*{\acronymsort}[2]{\##2}%
10396 \renewcommand*{\acronymentry}[1]{%
10397   \glslongaccessdisplay{\glsentrylong{\##1}}{\##1}\space
10398   (\glsshortaccessdisplay{\acronymfont{\glsentryshort{\##1}}}{\##1})}%
10399 }%

```

```
footnote-sm-desc \textsmaller{\short}\footnote{\long} acronym style that has an accompanying description (which the user needs to supply).
```

```
10400 \renewacronymstyle{footnote-sm-desc}%
10401 {%
10402   \GlsUseAcrEntryDispStyle{footnote-sm}%
10403 }%
10404 {%
10405   \GlsUseAcrStyleDefs{footnote-sm}%
10406   \renewcommand*\{GenericAcronymFields\}{}%
10407   \renewcommand*\{acronymsort\}[2]{##2}%
10408   \renewcommand*\{acronymentry\}[1]{%
10409     \glslongaccessdisplay{\glsentrylong{##1}{##1}\space
10410     (\glsshortaccessdisplay{\acronymfont{\glsentryshort{##1}}{##1}})}%
10411 }
```

Use `\newacronymhook` to modify the key list to set the access text to the long version by default.

```
10412 \renewcommand*\{newacronymhook}%
10413   \edef\@gls@keylist{shortaccess=\the\glslongtok,%
10414     \the\glskeylisttok}%
10415   \expandafter\glskeylisttok\expandafter{\@gls@keylist}%
10416 }
```

```
defaultNewAcronymDef Modify default style to use access text:
```

```
10417 \renewcommand*\{DefaultNewAcronymDef}%
10418   \edef\@do@newglossaryentry{%
10419     \noexpand\newglossaryentry{\the\glslabeltok}%
10420     {%
10421       type=\acronymtype,%
10422       name={\the\glsshorttok},%
10423       description={\the\glslongtok},%
10424       descriptionaccess=\relax,
10425       text={\the\glsshorttok},%
10426       access={\noexpand\@glo@textaccess},%
10427       sort={\the\glsshorttok},%
10428       short={\the\glsshorttok},%
10429       shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
10430       shortaccess={\the\glslongtok},%
10431       long={\the\glslongtok},%
10432       longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
10433       descriptionplural={\the\glslongtok\noexpand\acrpluralsuffix},%
10434       first={\noexpand\glslongaccessdisplay
10435         {\the\glslongtok}{\the\glslabeltok}\space
10436         (\noexpand\glsshortaccessdisplay
10437           {\the\glsshorttok}{\the\glslabeltok})},%
10438       plural={\the\glsshorttok\acrpluralsuffix},%
10439       firstplural={\noexpand\glslongpluralaccessdisplay
10440         {\noexpand\@glo@longpl}{\the\glslabeltok}\space
10441         (\noexpand\glsshortpluralaccessdisplay}
```

```

10442      {\noexpand\@glo@shortpl}{\the\glslabeltok}}},%
10443      firstaccess=\relax,
10444      firstpluralaccess=\relax,
10445      textaccess={\noexpand\@glo@shortaccess},%
10446      \the\glskeylisttok
10447  }%
10448 }%
10449 \let\@org@gls@assign@firstpl\gls@assign@firstpl
10450 \let\@org@gls@assign@plural\gls@assign@plural
10451 \let\@org@gls@assign@descplural\gls@assign@descplural
10452 \def\gls@assign@firstpl##1##2{%
10453   @@\gls@expand@field{##1}{firstpl}{##2}%
10454 }%
10455 \def\gls@assign@plural##1##2{%
10456   @@\gls@expand@field{##1}{plural}{##2}%
10457 }%
10458 \def\gls@assign@descplural##1##2{%
10459   @@\gls@expand@field{##1}{descplural}{##2}%
10460 }%
10461 \cdo@newglossaryentry
10462 \let\gls@assign@firstpl\@org@gls@assign@firstpl
10463 \let\gls@assign@plural\@org@gls@assign@plural
10464 \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
10465 }

```

otnoteNewAcronymDef

```

10466 \renewcommand*\DescriptionFootnoteNewAcronymDef{%
10467 \edef\cdo@newglossaryentry{%
10468   \noexpand\newglossaryentry{\the\glslabeltok}%
10469   {%
10470     type=\acronymtype,%
10471     name={\noexpand\acronymfont{\the\glsshorttok}},%
10472     sort={\the\glsshorttok},%
10473     text={\the\glsshorttok},%
10474     short={\the\glsshorttok},%
10475     shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
10476     shortaccess={\the\glslongtok},%
10477     long={\the\glslongtok},%
10478     longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
10479     access={\noexpand\@glo@textaccess},%
10480     plural={\the\glsshorttok\noexpand\acrpluralsuffix},%
10481     symbol={\the\glslongtok},%
10482     symbolplural={\the\glslongtok\noexpand\acrpluralsuffix},%
10483     firstpluralaccess=\relax,
10484     textaccess={\noexpand\@glo@shortaccess},%
10485     \the\glskeylisttok
10486   }%
10487 }%
10488 \let\@org@gls@assign@firstpl\gls@assign@firstpl

```

```

10489 \let\@org@gls@assign@plural\gls@assign@plural
10490 \let\@org@gls@assign@symbolplural\gls@assign@symbolplural
10491 \def\gls@assign@firstpl##1##2{%
10492   \@@gls@expand@field{##1}{firstpl}{##2}%
10493 }%
10494 \def\gls@assign@plural##1##2{%
10495   \@@gls@expand@field{##1}{plural}{##2}%
10496 }%
10497 \def\gls@assign@symbolplural##1##2{%
10498   \@@gls@expand@field{##1}{symbolplural}{##2}%
10499 }%
10500 \cdo@newglossaryentry
10501 \let\gls@assign@plural\@org@gls@assign@plural
10502 \let\gls@assign@firstpl\@org@gls@assign@firstpl
10503 \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
10504 }

```

optionNewAcronymDef

```

10505 \renewcommand*\DescriptionNewAcronymDef}{%
10506 \edef\cdo@newglossaryentry{%
10507   \noexpand\newglossaryentry{\the\glslabeltok}%
10508 {%
10509   type=acronymtype,%
10510   name={\noexpand
10511     \acrnameformat{\the\glsshorttok}{\the\glslongtok}},%
10512   access={\noexpand\glo@textaccess},%
10513   sort={\the\glsshorttok},%
10514   short={\the\glsshorttok},%
10515   shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
10516   shortaccess={\the\glslongtok},%
10517   long={\the\glslongtok},%
10518   longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
10519   first={\the\glslongtok},%
10520   firstaccess=\relax,
10521   firstplural={\the\glslongtok\noexpand\acrpluralsuffix},%
10522   text={\the\glsshorttok},%
10523   textaccess={\the\glslongtok},%
10524   plural={\the\glsshorttok\noexpand\acrpluralsuffix},%
10525   symbol={\noexpand\glo@text},%
10526   symbolaccess={\noexpand\glo@textaccess},%
10527   symbolplural={\noexpand\glo@plural},%
10528   firstpluralaccess=\relax,
10529   textaccess={\noexpand\glo@shortaccess},%
10530   \the\glskeylisttok}%
10531 }%
10532 \let\@org@gls@assign@firstpl\gls@assign@firstpl
10533 \let\@org@gls@assign@plural\gls@assign@plural
10534 \let\@org@gls@assign@symbolplural\gls@assign@symbolplural
10535 \def\gls@assign@firstpl##1##2{%

```

```

10536     \@@gls@expand@field{##1}{firstpl}{##2}%
10537   }%
10538   \def\gls@assign@plural##1##2{%
10539     \@@gls@expand@field{##1}{plural}{##2}%
10540   }%
10541   \def\gls@assign@symbolplural##1##2{%
10542     \@@gls@expand@field{##1}{symbolplural}{##2}%
10543   }%
10544   \do@newglossaryentry
10545   \let\gls@assign@firstpl\org@gls@assign@firstpl
10546   \let\gls@assign@plural\org@gls@assign@plural
10547   \let\gls@assign@symbolplural\org@gls@assign@symbolplural
10548 }

otnoteNewAcronymDef
10549 \renewcommand*\FootnoteNewAcronymDef{%
10550   \edef\do@newglossaryentry{%
10551     \noexpand\newglossaryentry{\the\glslabeltok}%
10552   }%
10553   type=\acronymtype,%
10554   name={\noexpand\acronymfont{\the\glsshorttok}},%
10555   sort={\the\glsshorttok},%
10556   text={\the\glsshorttok},%
10557   textaccess={\the\glslongtok},%
10558   access={\noexpand\glo@textaccess},%
10559   plural={\the\glsshorttok\noexpand\acrpluralsuffix},%
10560   short={\the\glsshorttok},%
10561   shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
10562   long={\the\glslongtok},%
10563   longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
10564   description={\the\glslongtok},%
10565   descriptionplural={\the\glslongtok\noexpand\acrpluralsuffix},%
10566   \the\glskeylisttok
10567 }%
10568 }%
10569 \let\org@gls@assign@plural\gls@assign@plural
10570 \let\org@gls@assign@firstpl\gls@assign@firstpl
10571 \let\org@gls@assign@descplural\gls@assign@descplural
10572 \def\gls@assign@firstpl##1##2{%
10573   \@@gls@expand@field{##1}{firstpl}{##2}%
10574 }%
10575 \def\gls@assign@plural##1##2{%
10576   \@@gls@expand@field{##1}{plural}{##2}%
10577 }%
10578 \def\gls@assign@descplural##1##2{%
10579   \@@gls@expand@field{##1}{descplural}{##2}%
10580 }%
10581 \do@newglossaryentry
10582 \let\gls@assign@plural\org@gls@assign@plural

```

```

10583 \let\gls@assign@firstpl\@org@gls@assign@firstpl
10584 \let\gls@assign@descplural\@org@gls@assign@descplural
10585 }

\SmallNewAcronymDef
10586 \renewcommand*\{\SmallNewAcronymDef}{%
10587 \edef\@do@newglossaryentry{%
10588 \noexpand\newglossaryentry{\the\glslabeltok}%
10589 {%
10590 type=\acronymtype,%
10591 name={\noexpand\acronymfont{\the\glsshorttok}},%
10592 access={\noexpand\glo@symbolaccess},%
10593 sort={\the\glsshorttok},%
10594 short={\the\glsshorttok},%
10595 shortplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
10596 shortaccess={\the\glslongtok},%
10597 long={\the\glslongtok},%
10598 longplural={\the\glslongtok\noexpand\acrpluralsuffix},%
10599 text={\noexpand\glo@short},%
10600 textaccess={\noexpand\glo@shortaccess},%
10601 plural={\noexpand\glo@shortpl},%
10602 first={\the\glslongtok},%
10603 firstaccess=\relax,
10604 firstplural={\the\glslongtok\noexpand\acrpluralsuffix},%
10605 description={\noexpand\glo@first},%
10606 descriptionplural={\noexpand\glo@firstplural},%
10607 symbol={\the\glsshorttok},%
10608 symbolaccess={\the\glslongtok},%
10609 symbolplural={\the\glsshorttok\noexpand\acrpluralsuffix},%
10610 \the\glskeylisttok
10611 }%
10612 }%
10613 \let\@org@gls@assign@firstpl\gls@assign@firstpl
10614 \let\@org@gls@assign@plural\gls@assign@plural
10615 \let\@org@gls@assign@descplural\gls@assign@descplural
10616 \let\@org@gls@assign@symbolplural\gls@assign@symbolplural
10617 \def\gls@assign@firstpl##1##2{%
10618 \@@gls@expand@field{##1}{firstpl}{##2}%
10619 }%
10620 \def\gls@assign@plural##1##2{%
10621 \@@gls@expand@field{##1}{plural}{##2}%
10622 }%
10623 \def\gls@assign@descplural##1##2{%
10624 \@@gls@expand@field{##1}{descplural}{##2}%
10625 }%
10626 \def\gls@assign@symbolplural##1##2{%
10627 \@@gls@expand@field{##1}{symbolplural}{##2}%
10628 }%
10629 \@do@newglossaryentry

```

```

10630 \let\gls@assign@firstpl\@org@gls@assign@firstpl
10631 \let\gls@assign@plural\@org@gls@assign@plural
10632 \let\gls@assign@descplural\@org@gls@assign@descplural
10633 \let\gls@assign@symbolplural\@org@gls@assign@symbolplural
10634 }

```

The following are kept for compatibility with versions before 3.0:

```

\glsshortaccesskey
10635 \newcommand*{\glsshortaccesskey}{\glsshortkey access}%

hortpluralaccesskey
10636 \newcommand*{\glsshortpluralaccesskey}{\glsshortpluralkey access}%

\glslongaccesskey
10637 \newcommand*{\glslongaccesskey}{\glslongkey access}%

longpluralaccesskey
10638 \newcommand*{\glslongpluralaccesskey}{\glslongpluralkey access}%

```

7.5 Debugging Commands

```

\showglonameaccess
10639 \newcommand*{\showglonameaccess}[1]{%
10640 \expandafter\show\csname glo@\glsdetoklabel{#1}@textaccess\endcsname
10641 }

\showglo{text}access
10642 \newcommand*{\showglo{text}access}[1]{%
10643 \expandafter\show\csname glo@\glsdetoklabel{#1}@textaccess\endcsname
10644 }

showglopluralaccess
10645 \newcommand*{\showglopluralaccess}[1]{%
10646 \expandafter\show\csname glo@\glsdetoklabel{#1}@pluralaccess\endcsname
10647 }

\showglo{first}access
10648 \newcommand*{\showglo{first}access}[1]{%
10649 \expandafter\show\csname glo@\glsdetoklabel{#1}@firstaccess\endcsname
10650 }

lofistpluralaccess
10651 \newcommand*{\showglo{firstplural}access}[1]{%
10652 \expandafter\show\csname glo@\glsdetoklabel{#1}@firstpluralaccess\endcsname
10653 }

```

```

showglosymbolaccess
10654 \newcommand*{\showglosymbolaccess}[1]{%
10655   \expandafter\show\csname glo@\glsdetoklabel{#1}@symbolaccess\endcsname
10656 }

osymbolpluralaccess
10657 \newcommand*{\showglosymbolpluralaccess}[1]{%
10658   \expandafter\show\csname glo@\glsdetoklabel{#1}@symbolpluralaccess\endcsname
10659 }

\showglodescaccess
10660 \newcommand*{\showglodescaccess}[1]{%
10661   \expandafter\show\csname glo@\glsdetoklabel{#1}@descaccess\endcsname
10662 }

glodescpluralaccess
10663 \newcommand*{\showglodescpluralaccess}[1]{%
10664   \expandafter\show\csname glo@\glsdetoklabel{#1}@descpluralaccess\endcsname
10665 }

\showgloshortaccess
10666 \newcommand*{\showgloshortaccess}[1]{%
10667   \expandafter\show\csname glo@\glsdetoklabel{#1}@shortaccess\endcsname
10668 }

loshortpluralaccess
10669 \newcommand*{\showgloshortpluralaccess}[1]{%
10670   \expandafter\show\csname glo@\glsdetoklabel{#1}@shortpluralaccess\endcsname
10671 }

\showglolongaccess
10672 \newcommand*{\showglolongaccess}[1]{%
10673   \expandafter\show\csname glo@\glsdetoklabel{#1}@longaccess\endcsname
10674 }

golongpluralaccess
10675 \newcommand*{\showgolongpluralaccess}[1]{%
10676   \expandafter\show\csname glo@\glsdetoklabel{#1}@longpluralaccess\endcsname
10677 }

```

8 Multi-Lingual Support

Many thanks to everyone who contributed to the translations both via email and on comp.text.tex.

8.1 Babel Captions

Define captions if multi-lingual support is required, but the package is not loaded.

```
10678 \NeedsTeXFormat{LaTeX2e}
10679 \ProvidesPackage{glossaries-babel}[2013/11/14 v4.0 (NLCT)]

    English:
10680 \@ifundefined{captionsenglish}{}{%
10681     \addto\captionsenglish{%
10682         \renewcommand*{\glossaryname}{Glossary}%
10683         \renewcommand*{\acronymname}{Acronyms}%
10684         \renewcommand*{\entryname}{Notation}%
10685         \renewcommand*{\descriptionname}{Description}%
10686         \renewcommand*{\symbolname}{Symbol}%
10687         \renewcommand*{\pagelistname}{Page List}%
10688         \renewcommand*{\glssymbolsgroupname}{Symbols}%
10689         \renewcommand*{\glsnumbersgroupname}{Numbers}%
10690 }%
10691 }
10692 \@ifundefined{captionsamerican}{}{%
10693     \addto\captionsamerican{%
10694         \renewcommand*{\glossaryname}{Glossary}%
10695         \renewcommand*{\acronymname}{Acronyms}%
10696         \renewcommand*{\entryname}{Notation}%
10697         \renewcommand*{\descriptionname}{Description}%
10698         \renewcommand*{\symbolname}{Symbol}%
10699         \renewcommand*{\pagelistname}{Page List}%
10700         \renewcommand*{\glssymbolsgroupname}{Symbols}%
10701         \renewcommand*{\glsnumbersgroupname}{Numbers}%
10702 }%
10703 }
10704 \@ifundefined{captionsaustralian}{}{%
10705     \addto\captionsaustralian{%
10706         \renewcommand*{\glossaryname}{Glossary}%
10707         \renewcommand*{\acronymname}{Acronyms}%
10708         \renewcommand*{\entryname}{Notation}%
10709         \renewcommand*{\descriptionname}{Description}%
10710         \renewcommand*{\symbolname}{Symbol}%
10711         \renewcommand*{\pagelistname}{Page List}%
10712         \renewcommand*{\glssymbolsgroupname}{Symbols}%
10713         \renewcommand*{\glsnumbersgroupname}{Numbers}%
10714 }%
10715 }
10716 \@ifundefined{captionsbritish}{}{%
10717     \addto\captionsbritish{%
10718         \renewcommand*{\glossaryname}{Glossary}%
10719         \renewcommand*{\acronymname}{Acronyms}%
10720         \renewcommand*{\entryname}{Notation}%
10721         \renewcommand*{\descriptionname}{Description}%
10722 }
```

```

10722 \renewcommand*\{\symbolname\}{Symbol}%
10723 \renewcommand*\{\pagelistname\}{Page List}%
10724 \renewcommand*\{\glssymbolsgroupname\}{Symbols}%
10725 \renewcommand*\{\glsnumbersgroupname\}{Numbers}%
10726 }%}
10727 \@ifundefined{captionscanadian}{}{%
10728 \addto\captionscanadian{%
10729 \renewcommand*\{\glossaryname\}{Glossary}%
10730 \renewcommand*\{\acronymname\}{Acronyms}%
10731 \renewcommand*\{\entryname\}{Notation}%
10732 \renewcommand*\{\descriptionname\}{Description}%
10733 \renewcommand*\{\symbolname\}{Symbol}%
10734 \renewcommand*\{\pagelistname\}{Page List}%
10735 \renewcommand*\{\glssymbolsgroupname\}{Symbols}%
10736 \renewcommand*\{\glsnumbersgroupname\}{Numbers}%
10737 }%
10738 }
10739 \@ifundefined{captionsnewzealand}{}{%
10740 \addto\captionsnewzealand{%
10741 \renewcommand*\{\glossaryname\}{Glossary}%
10742 \renewcommand*\{\acronymname\}{Acronyms}%
10743 \renewcommand*\{\entryname\}{Notation}%
10744 \renewcommand*\{\descriptionname\}{Description}%
10745 \renewcommand*\{\symbolname\}{Symbol}%
10746 \renewcommand*\{\pagelistname\}{Page List}%
10747 \renewcommand*\{\glssymbolsgroupname\}{Symbols}%
10748 \renewcommand*\{\glsnumbersgroupname\}{Numbers}%
10749 }%
10750 }
10751 \@ifundefined{captionsUKenglish}{}{%
10752 \addto\captionsUKenglish{%
10753 \renewcommand*\{\glossaryname\}{Glossary}%
10754 \renewcommand*\{\acronymname\}{Acronyms}%
10755 \renewcommand*\{\entryname\}{Notation}%
10756 \renewcommand*\{\descriptionname\}{Description}%
10757 \renewcommand*\{\symbolname\}{Symbol}%
10758 \renewcommand*\{\pagelistname\}{Page List}%
10759 \renewcommand*\{\glssymbolsgroupname\}{Symbols}%
10760 \renewcommand*\{\glsnumbersgroupname\}{Numbers}%
10761 }%
10762 }
10763 \@ifundefined{captionsUSenglish}{}{%
10764 \addto\captionsUSenglish{%
10765 \renewcommand*\{\glossaryname\}{Glossary}%
10766 \renewcommand*\{\acronymname\}{Acronyms}%
10767 \renewcommand*\{\entryname\}{Notation}%
10768 \renewcommand*\{\descriptionname\}{Description}%
10769 \renewcommand*\{\symbolname\}{Symbol}%
10770 \renewcommand*\{\pagelistname\}{Page List}%

```

```

10771 \renewcommand*\{\glssymbolsgroupname\}{Symbols}%
10772 \renewcommand*\{\glsnumbersgroupname\}{Numbers}%
10773 }%
10774 }

```

German (quite a few variations were suggested for German; I settled on the following):

```

10775 \@ifundefined{captionsgerman}{}{%
10776   \addto\captionsgerman{%
10777     \renewcommand*\{\glossaryname\}{Glossar}%
10778     \renewcommand*\{\acronymname\}{Akronyme}%
10779     \renewcommand*\{\entryname\}{Bezeichnung}%
10780     \renewcommand*\{\descriptionname\}{Beschreibung}%
10781     \renewcommand*\{\symbolname\}{Symbol}%
10782     \renewcommand*\{\pagelistname\}{Seiten}%
10783     \renewcommand*\{\glssymbolsgroupname\}{Symbole}%
10784     \renewcommand*\{\glsnumbersgroupname\}{Zahlen}%
10785 }

```

`\ngerman` is identical to German:

```

10786 \@ifundefined{captionsngerman}{}{%
10787   \addto\captionsngerman{%
10788     \renewcommand*\{\glossaryname\}{Glossar}%
10789     \renewcommand*\{\acronymname\}{Akronyme}%
10790     \renewcommand*\{\entryname\}{Bezeichnung}%
10791     \renewcommand*\{\descriptionname\}{Beschreibung}%
10792     \renewcommand*\{\symbolname\}{Symbol}%
10793     \renewcommand*\{\pagelistname\}{Seiten}%
10794     \renewcommand*\{\glssymbolsgroupname\}{Symbole}%
10795     \renewcommand*\{\glsnumbersgroupname\}{Zahlen}%
10796 }

```

Italian:

```

10797 \@ifundefined{captionsitalian}{}{%
10798   \addto\captionsitalian{%
10799     \renewcommand*\{\glossaryname\}{Glossario}%
10800     \renewcommand*\{\acronymname\}{Acronimi}%
10801     \renewcommand*\{\entryname\}{Nomenclatura}%
10802     \renewcommand*\{\descriptionname\}{Descrizione}%
10803     \renewcommand*\{\symbolname\}{Simbolo}%
10804     \renewcommand*\{\pagelistname\}{Elenco delle pagine}%
10805     \renewcommand*\{\glssymbolsgroupname\}{Simboli}%
10806     \renewcommand*\{\glsnumbersgroupname\}{Numeri}%
10807 }

```

Dutch:

```

10808 \@ifundefined{captionsdutch}{}{%
10809   \addto\captionsdutch{%
10810     \renewcommand*\{\glossaryname\}{Woordenlijst}%
10811     \renewcommand*\{\acronymname\}{Acroniemen}%
10812     \renewcommand*\{\entryname\}{Benaming}%

```

```

10813 \renewcommand*\{\descriptionname\}{Beschrijving}%
10814 \renewcommand*\{\symbolname\}{Symbool}%
10815 \renewcommand*\{\pagelistname\}{Pagina's}%
10816 \renewcommand*\{\glssymbolsgroupname\}{Symbolen}%
10817 \renewcommand*\{\glsnumbersgroupname\}{Cijfers}%
10818 }

```

Spanish:

```

10819 \@ifundefined{captionsspanish}{}{%
10820   \addto\captionsspanish{%
10821     \renewcommand*\{\glossaryname\}{Glosario}%
10822     \renewcommand*\{\acronymname\}{Siglas}%
10823     \renewcommand*\{\entryname\}{Entrada}%
10824     \renewcommand*\{\descriptionname\}{Descripci\'on}%
10825     \renewcommand*\{\symbolname\}{S\'{\i}mbolo}%
10826     \renewcommand*\{\pagelistname\}{Lista de p\'aginas}%
10827     \renewcommand*\{\glssymbolsgroupname\}{S\'{\i}mbolos}%
10828     \renewcommand*\{\glsnumbersgroupname\}{N\'umeros}%
10829 }

```

French:

```

10830 \@ifundefined{captionsfrench}{}{%
10831   \addto\captionsfrench{%
10832     \renewcommand*\{\glossaryname\}{Glossaire}%
10833     \renewcommand*\{\acronymname\}{Acronymes}%
10834     \renewcommand*\{\entryname\}{Terme}%
10835     \renewcommand*\{\descriptionname\}{Description}%
10836     \renewcommand*\{\symbolname\}{Symbole}%
10837     \renewcommand*\{\pagelistname\}{Pages}%
10838     \renewcommand*\{\glssymbolsgroupname\}{Symboles}%
10839     \renewcommand*\{\glsnumbersgroupname\}{Nombres}%
10840 }
10841 \@ifundefined{captionsfrenchb}{}{%
10842   \addto\captionsfrenchb{%
10843     \renewcommand*\{\glossaryname\}{Glossaire}%
10844     \renewcommand*\{\acronymname\}{Acronymes}%
10845     \renewcommand*\{\entryname\}{Terme}%
10846     \renewcommand*\{\descriptionname\}{Description}%
10847     \renewcommand*\{\symbolname\}{Symbole}%
10848     \renewcommand*\{\pagelistname\}{Pages}%
10849     \renewcommand*\{\glssymbolsgroupname\}{Symboles}%
10850     \renewcommand*\{\glsnumbersgroupname\}{Nombres}%
10851 }
10852 \@ifundefined{captionsfrancais}{}{%
10853   \addto\captionsfrancais{%
10854     \renewcommand*\{\glossaryname\}{Glossaire}%
10855     \renewcommand*\{\acronymname\}{Acronymes}%
10856     \renewcommand*\{\entryname\}{Terme}%
10857     \renewcommand*\{\descriptionname\}{Description}%
10858     \renewcommand*\{\symbolname\}{Symbole}%

```

```

10859 \renewcommand*\{\pagelistname\}{Pages}%
10860 \renewcommand*\{\glssymbolsgroupname\}{Symboles}%
10861 \renewcommand*\{\glsnumbersgroupname\}{Nombres}%
10862 }

```

Danish:

```

10863 \@ifundefined{captionsdanish}{}{%
10864   \addto\captionsdanish{%
10865     \renewcommand*\{\glossaryname\}{Ordliste}%
10866     \renewcommand*\{\acronymname\}{Akronymer}%
10867     \renewcommand*\{\entryname\}{Symbolforklaring}%
10868     \renewcommand*\{\descriptionname\}{Beskrivelse}%
10869     \renewcommand*\{\symbolname\}{Symbol}%
10870     \renewcommand*\{\pagelistname\}{Side}%
10871     \renewcommand*\{\glssymbolsgroupname\}{Symboler}%
10872     \renewcommand*\{\glsnumbersgroupname\}{Tal}%
10873 }

```

Irish:

```

10874 \@ifundefined{captionsirish}{}{%
10875   \addto\captionsirish{%
10876     \renewcommand*\{\glossaryname\}{Gluais}%
10877     \renewcommand*\{\acronymname\}{Acrainmneacha}%

```

wasn't sure whether to go for Nótá (Note), Ciall ('Meaning', 'sense') or Brí ('Meaning'). In the end I chose Ciall.

```

10878   \renewcommand*\{\entryname\}{Ciall}%
10879   \renewcommand*\{\descriptionname\}{Tuairisc}%

```

Again, not sure whether to use Comhartha/Comharthaí or Siombail/Siombaile, so have chosen the former.

```

10880   \renewcommand*\{\symbolname\}{Comhartha}%
10881   \renewcommand*\{\glssymbolsgroupname\}{Comhartha\'{\i}}%
10882   \renewcommand*\{\pagelistname\}{Leathanaigh}%
10883   \renewcommand*\{\glsnumbersgroupname\}{Uimhreacha}%
10884 }

```

Hungarian:

```

10885 \@ifundefined{captionsmagyar}{}{%
10886   \addto\captionsmagyar{%
10887     \renewcommand*\{\glossaryname\}{Sz\'ojegyz\'ek}%
10888     \renewcommand*\{\acronymname\}{Bet\'H uszavak}%
10889     \renewcommand*\{\entryname\}{Kifejez\'es}%
10890     \renewcommand*\{\descriptionname\}{Magyar\'azat}%
10891     \renewcommand*\{\symbolname\}{Jel\"ol\'es}%
10892     \renewcommand*\{\pagelistname\}{Oldalsz\'am}%
10893     \renewcommand*\{\glssymbolsgroupname\}{Jelek}%
10894     \renewcommand*\{\glsnumbersgroupname\}{Sz\'amjegyek}%
10895   }
10896 }
10897 \@ifundefined{captionshungarian}{}{%

```

```

10898 \addto\captionshungarian{%
10899   \renewcommand*{\glossaryname}{Sz\'ojegez\'ek}%
10900   \renewcommand*{\acronymname}{Bet\H uszavak}%
10901   \renewcommand*{\entryname}{Kifejez\'es}%
10902   \renewcommand*{\descriptionname}{Magyar\'azat}%
10903   \renewcommand*{\symbolname}{Jel\"ol\'es}%
10904   \renewcommand*{\pagelistname}{Oldalsz\'am}%
10905   \renewcommand*{\glssymbolsgroupname}{Jelek}%
10906   \renewcommand*{\glsnumbersgroupname}{Sz\'amjegyek}%
10907 }
10908 }

```

Polish

```

10909 \@ifundefined{captionspolish}{}{%
10910   \addto\captionspolish{%
10911     \renewcommand*{\glossaryname}{S\l ownik termin\'ow}%
10912     \renewcommand*{\acronymname}{Skr\'ot}%
10913     \renewcommand*{\entryname}{Termin}%
10914     \renewcommand*{\descriptionname}{Opis}%
10915     \renewcommand*{\symbolname}{Symbol}%
10916     \renewcommand*{\pagelistname}{Strony}%
10917     \renewcommand*{\glssymbolsgroupname}{Symbole}%
10918     \renewcommand*{\glsnumbersgroupname}{Liczby}%
10919 }

```

Brazilian

```

10920 \@ifundefined{captionsbrazil}{}{%
10921   \addto\captionsbrazil{%
10922     \renewcommand*{\glossaryname}{Gloss\'ario}%
10923     \renewcommand*{\acronymname}{Siglas}%
10924     \renewcommand*{\entryname}{Nota\c c\~ao}%
10925     \renewcommand*{\descriptionname}{Descri\c c\~ao}%
10926     \renewcommand*{\symbolname}{S\'imbolo}%
10927     \renewcommand*{\pagelistname}{Lista de P\'aginas}%
10928     \renewcommand*{\glssymbolsgroupname}{S\'imbolos}%
10929     \renewcommand*{\glsnumbersgroupname}{N\'umeros}%
10930   }%
10931 }

```

8.2 Polyglossia Captions

```

10932 \NeedsTeXFormat{LaTeX2e}
10933 \ProvidesPackage{glossaries-polyglossia}[2013/11/14 v4.0 (NLCT)]

```

English:

```

10934 \@ifundefined{captionsenglish}{}{%
10935   \expandafter\toks@\expandafter{\captionsenglish
10936     \renewcommand*{\glossaryname}{\textenglish{Glossary}}%
10937     \renewcommand*{\acronymname}{\textenglish{Acronyms}}%
10938     \renewcommand*{\entryname}{\textenglish{Notation}}%
10939     \renewcommand*{\descriptionname}{\textenglish{Description}}%}

```

```

10940 \renewcommand*\{\symbolname}{\textenglish{Symbol}}%
10941 \renewcommand*\{\pagelistname}{\textenglish{Page List}}%
10942 \renewcommand*\{\glssymbolsgroupname}{\textenglish{Symbols}}%
10943 \renewcommand*\{\glsnumbersgroupname}{\textenglish{Numbers}}%
10944 }%
10945 \edef\captionsenglish{\the\toks@}%
10946 }

```

German:

```

10947 \@ifundefined{captionsgerman}{}{%
10948 \expandafter\toks@\expandafter{\captionsgerman
10949 \renewcommand*\{\glossaryname}{\textgerman{Glossar}}%
10950 \renewcommand*\{\acronymname}{\textgerman{Akronyme}}%
10951 \renewcommand*\{\entryname}{\textgerman{Bezeichnung}}%
10952 \renewcommand*\{\descriptionname}{\textgerman{Beschreibung}}%
10953 \renewcommand*\{\symbolname}{\textgerman{Symbol}}%
10954 \renewcommand*\{\pagelistname}{\textgerman{Seiten}}%
10955 \renewcommand*\{\glssymbolsgroupname}{\textgerman{Symbole}}%
10956 \renewcommand*\{\glsnumbersgroupname}{\textgerman{Zahlen}}%
10957 }%
10958 \edef\captionsgerman{\the\toks@}%
10959 }

```

Italian:

```

10960 \@ifundefined{captionsitalian}{}{%
10961 \expandafter\toks@\expandafter{\captionsitalian
10962 \renewcommand*\{\glossaryname}{\textitalian{Glossario}}%
10963 \renewcommand*\{\acronymname}{\textitalian{Acronimi}}%
10964 \renewcommand*\{\entryname}{\textitalian{Nomenclatura}}%
10965 \renewcommand*\{\descriptionname}{\textitalian{Descrizione}}%
10966 \renewcommand*\{\symbolname}{\textitalian{Simbolo}}%
10967 \renewcommand*\{\pagelistname}{\textitalian{Elenco delle pagine}}%
10968 \renewcommand*\{\glssymbolsgroupname}{\textitalian{Simboli}}%
10969 \renewcommand*\{\glsnumbersgroupname}{\textitalian{Numeri}}%
10970 }%
10971 \edef\captionsitalian{\the\toks@}%
10972 }

```

Dutch:

```

10973 \@ifundefined{captionsdutch}{}{%
10974 \expandafter\toks@\expandafter{\captionsdutch
10975 \renewcommand*\{\glossaryname}{\textdutch{Woordenlijst}}%
10976 \renewcommand*\{\acronymname}{\textdutch{Acroniemen}}%
10977 \renewcommand*\{\entryname}{\textdutch{Benaming}}%
10978 \renewcommand*\{\descriptionname}{\textdutch{Beschrijving}}%
10979 \renewcommand*\{\symbolname}{\textdutch{Symbol}}%
10980 \renewcommand*\{\pagelistname}{\textdutch{Pagina's}}%
10981 \renewcommand*\{\glssymbolsgroupname}{\textdutch{Symbolen}}%
10982 \renewcommand*\{\glsnumbersgroupname}{\textdutch{Cijfers}}%
10983 }%
10984 \edef\captionsdutch{\the\toks@}%

```

10985 }

Spanish:

```
10986 \@ifundefined{captionsspanish}{}{%
10987   \expandafter\toks@\expandafter{\captionsspanish
10988     \renewcommand*{\glossaryname}{\textspanish{Glosario}}%
10989     \renewcommand*{\acronymname}{\textspanish{Siglas}}%
10990     \renewcommand*{\entryname}{\textspanish{Entrada}}%
10991     \renewcommand*{\descriptionname}{\textspanish{Descripci\'on}}%
10992     \renewcommand*{\symbolname}{\textspanish{S\'{\i}mbolo}}%
10993     \renewcommand*{\pagelistname}{\textspanish{Lista de p\'aginas}}%
10994     \renewcommand*{\glssymbolsgroupname}{\textspanish{S\'{\i}mbolos}}%
10995     \renewcommand*{\glsnumbersgroupname}{\textspanish{N\'umeros}}%
10996   }%
10997   \edef\captionsspanish{\the\toks@}%
10998 }
```

French:

```
10999 \@ifundefined{captionsfrench}{}{%
11000   \expandafter\toks@\expandafter{\captionsfrench
11001     \renewcommand*{\glossaryname}{\textfrench{Glossaire}}%
11002     \renewcommand*{\acronymname}{\textfrench{Acronymes}}%
11003     \renewcommand*{\entryname}{\textfrench{Terme}}%
11004     \renewcommand*{\descriptionname}{\textfrench{Description}}%
11005     \renewcommand*{\symbolname}{\textfrench{Symbole}}%
11006     \renewcommand*{\pagelistname}{\textfrench{Pages}}%
11007     \renewcommand*{\glssymbolsgroupname}{\textfrench{Symboles}}%
11008     \renewcommand*{\glsnumbersgroupname}{\textfrench{Nombres}}%
11009   }%
11010   \edef\captionsfrench{\the\toks@}%
11011 }
```

Danish:

```
11012 \@ifundefined{captionsdanish}{}{%
11013   \expandafter\toks@\expandafter{\captionsdanish
11014     \renewcommand*{\glossaryname}{\textdanish{Ordliste}}%
11015     \renewcommand*{\acronymname}{\textdanish{Akronymer}}%
11016     \renewcommand*{\entryname}{\textdanish{Symbolforklaring}}%
11017     \renewcommand*{\descriptionname}{\textdanish{Beskrivelse}}%
11018     \renewcommand*{\symbolname}{\textdanish{Symbol}}%
11019     \renewcommand*{\pagelistname}{\textdanish{Side}}%
11020     \renewcommand*{\glssymbolsgroupname}{\textdanish{Symboler}}%
11021     \renewcommand*{\glsnumbersgroupname}{\textdanish{Tal}}%
11022   }%
11023   \edef\captionsdanish{\the\toks@}%
11024 }
```

Irish:

```
11025 \@ifundefined{captionsirish}{}{%
11026   \expandafter\toks@\expandafter{\captionsirish
11027     \renewcommand*{\glossaryname}{\textirish{Gluais}}%
11028     \renewcommand*{\acronymname}{\textirish{Acrainmneacha}}%
```

```

11029 \renewcommand*{\entryname}{\textirish{Ciall}}%
11030 \renewcommand*{\descriptionname}{\textirish{Tuairisc}}%
11031 \renewcommand*{\symbolname}{\textirish{Comhartha}}%
11032 \renewcommand*{\glssymbolsgroupname}{\textirish{Comhartha'\{i\}}}%
11033 \renewcommand*{\pagelistname}{\textirish{Leathanaigh}}%
11034 \renewcommand*{\glsnumbersgroupname}{\textirish{Uimhreacha}}%
11035 }%
11036 \edef\captionsirish{\the\toks@}%
11037 }

```

Hungarian:

```

11038 @ifundefined{captionsmagyar}{}{%
11039 \expandafter\toks@\expandafter{\captionsmagyar
11040 \renewcommand*{\glossaryname}{\textmagyar{Sz\'ojegyz\'ek}}%
11041 \renewcommand*{\acronymname}{\textmagyar{Bet\'H uszavak}}%
11042 \renewcommand*{\entryname}{\textmagyar{Kifejez\'es}}%
11043 \renewcommand*{\descriptionname}{\textmagyar{Magyar\'azat}}%
11044 \renewcommand*{\symbolname}{\textmagyar{Jel\"ol\'es}}%
11045 \renewcommand*{\pagelistname}{\textmagyar{Oldalsz\'am}}%
11046 \renewcommand*{\glssymbolsgroupname}{\textmagyar{Jelek}}%
11047 \renewcommand*{\glsnumbersgroupname}{\textmagyar{Sz\'amjegyek}}%
11048 }%
11049 \edef\captionsmagyar{\the\toks@}%
11050 }

```

Polish

```

11051 @ifundefined{captionspolish}{}{%
11052 \expandafter\toks@\expandafter{\captionspolish
11053 \renewcommand*{\glossaryname}{\textpolish{S\lownik termin\'ow}}%
11054 \renewcommand*{\acronymname}{\textpolish{Skr\'ot}}%
11055 \renewcommand*{\entryname}{\textpolish{Termin}}%
11056 \renewcommand*{\descriptionname}{\textpolish{Opis}}%
11057 \renewcommand*{\symbolname}{\textpolish{Symbol}}%
11058 \renewcommand*{\pagelistname}{\textpolish{Strony}}%
11059 \renewcommand*{\glssymbolsgroupname}{\textpolish{Symbole}}%
11060 \renewcommand*{\glsnumbersgroupname}{\textpolish{Liczby}}%
11061 }%
11062 \edef\captionspolish{\the\toks@}%
11063 }

```

Portugues

```

11064 @ifundefined{captionsportuges}{}{%
11065 \expandafter\toks@\expandafter{\captionsportuges
11066 \renewcommand*{\glossaryname}{\textportuges{Gloss\'ario}}%
11067 \renewcommand*{\acronymname}{\textportuges{Siglas}}%
11068 \renewcommand*{\entryname}{\textportuges{Nota\c{c}\~ao}}%
11069 \renewcommand*{\descriptionname}{\textportuges{Descri\c{c}\~ao}}%
11070 \renewcommand*{\symbolname}{\textportuges{S\'imbolo}}%
11071 \renewcommand*{\pagelistname}{\textportuges{Lista de P\'aginas}}%
11072 \renewcommand*{\glssymbolsgroupname}{\textportuges{S\'imbolos}}%
11073 \renewcommand*{\glsnumbersgroupname}{\textportuges{N\'umeros}}%

```

```
11074 }%
11075 \edef\captionsportuges{\the\toks@}%
11076 }
```

8.3 Brazilian Dictionary

This is a dictionary file provided by Thiago de Melo for use with the package.

```
11077 \ProvidesDictionary{glossaries-dictionary}{Brazilian}
```

Provide Brazilian translations:

```
11078 \providetranslation{Glossary}{Gloss\'ario}
11079 \providetranslation{Acronyms}{Siglas}
11080 \providetranslation{Notation (glossaries)}{Nota\c c\~ao}
11081 \providetranslation{Description (glossaries)}{Descri\c c\~ao}
11082 \providetranslation{Symbol (glossaries)}{S\'imbolo}
11083 \providetranslation{Page List (glossaries)}{Lista de P\'aginas}
11084 \providetranslation{Symbols (glossaries)}{S\'imbolos}
11085 \providetranslation{Numbers (glossaries)}{N\'umeros}
```

8.4 Danish Dictionary

This is a dictionary file provided for use with the package.

```
11086 \ProvidesDictionary{glossaries-dictionary}{Danish}
```

Provide Danish translations:

```
11087 \providetranslation{Glossary}{Ordliste}
11088 \providetranslation{Acronyms}{Akronymer}
11089 \providetranslation{Notation (glossaries)}{Symbolforklaring}
11090 \providetranslation{Description (glossaries)}{Beskrivelse}
11091 \providetranslation{Symbol (glossaries)}{Symbol}
11092 \providetranslation{Page List (glossaries)}{Side}
11093 \providetranslation{Symbols (glossaries)}{Symboler}
11094 \providetranslation{Numbers (glossaries)}{Tal}
```

8.5 Dutch Dictionary

This is a dictionary file provided for use with the package.

```
11095 \ProvidesDictionary{glossaries-dictionary}{Dutch}
```

Provide Dutch translations:

```
11096 \providetranslation{Glossary}{Woordenlijst}
11097 \providetranslation{Acronyms}{Acroniemen}
11098 \providetranslation{Notation (glossaries)}{Benaming}
11099 \providetranslation{Description (glossaries)}{Beschrijving}
11100 \providetranslation{Symbol (glossaries)}{Symbool}
11101 \providetranslation{Page List (glossaries)}{Pagina's}
11102 \providetranslation{Symbols (glossaries)}{Symbolen}
11103 \providetranslation{Numbers (glossaries)}{Cijfers}
```

8.6 English Dictionary

This is a dictionary file provided for use with the package.

11104 \ProvidesDictionary{glossaries-dictionary}{English}

Provide English translations:

```
11105 \providetranslation{Glossary}{Glossary}
11106 \providetranslation{Acronyms}{Acronyms}
11107 \providetranslation{Notation (glossaries)}{Notation}
11108 \providetranslation{Description (glossaries)}{Description}
11109 \providetranslation{Symbol (glossaries)}{Symbol}
11110 \providetranslation{Page List (glossaries)}{Page List}
11111 \providetranslation{Symbols (glossaries)}{Symbols}
11112 \providetranslation{Numbers (glossaries)}{Numbers}
```

8.7 French Dictionary

This is a dictionary file provided for use with the package.

11113 \ProvidesDictionary{glossaries-dictionary}{French}

Provide French translations:

```
11114 \providetranslation{Glossary}{Glossaire}
11115 \providetranslation{Acronyms}{Acronymes}
11116 \providetranslation{Notation (glossaries)}{Terme}
11117 \providetranslation{Description (glossaries)}{Description}
11118 \providetranslation{Symbol (glossaries)}{Symbole}
11119 \providetranslation{Page List (glossaries)}{Pages}
11120 \providetranslation{Symbols (glossaries)}{Symboles}
11121 \providetranslation{Numbers (glossaries)}{Nombres}
```

8.8 German Dictionary

This is a dictionary file provided for use with the package.

11122 \ProvidesDictionary{glossaries-dictionary}{German}

Provide German translations (quite a few variations were suggested for German; I settled on the following):

```
11123 \providetranslation{Glossary}{Glossar}
11124 \providetranslation{Acronyms}{Akronyme}
11125 \providetranslation{Notation (glossaries)}{Bezeichnung}
11126 \providetranslation{Description (glossaries)}{Beschreibung}
11127 \providetranslation{Symbol (glossaries)}{Symbol}
11128 \providetranslation{Page List (glossaries)}{Seiten}
11129 \providetranslation{Symbols (glossaries)}{Symbole}
11130 \providetranslation{Numbers (glossaries)}{Zahlen}
```

8.9 Irish Dictionary

This is a dictionary file provided for use with the package.

11131 \ProvidesDictionary{glossaries-dictionary}{Irish}

Provide Irish translations:

```
11132 \providetranslation{Glossary}{Gluais}
11133 \providetranslation{Acronyms}{Acrainmneacha}
11134 \providetranslation{Notation (glossaries)}{Ciall}
11135 \providetranslation{Description (glossaries)}{Tuairisc}
11136 \providetranslation{Symbol (glossaries)}{Comhartha}
11137 \providetranslation{Page List (glossaries)}{Leathanaigh}
11138 \providetranslation{Symbols (glossaries)}{Comhartha\'{\i}}
11139 \providetranslation{Numbers (glossaries)}{Uimhreacha}
```

8.10 Italian Dictionary

This is a dictionary file provided for use with the package.

```
11140 \ProvidesDictionary{glossaries-dictionary}{Italian}
```

Provide Italian translations:

```
11141 \providetranslation{Glossary}{Glossario}
11142 \providetranslation{Acronyms}{Acronimi}
11143 \providetranslation{Notation (glossaries)}{Nomenclatura}
11144 \providetranslation{Description (glossaries)}{Descrizione}
11145 \providetranslation{Symbol (glossaries)}{Simbolo}
11146 \providetranslation{Page List (glossaries)}{Elenco delle pagine}
11147 \providetranslation{Symbols (glossaries)}{Simboli}
11148 \providetranslation{Numbers (glossaries)}{Numeri}
```

8.11 Magyar Dictionary

This is a dictionary file provided for use with the package.

```
11149 \ProvidesDictionary{glossaries-dictionary}{Magyar}
```

Provide translations:

```
11150 \providetranslation{Glossary}{Sz\'{o}jegyz\'{e}k}
11151 \providetranslation{Acronyms}{Bet\H uszavak}
11152 \providetranslation{Notation (glossaries)}{Kifejez\'{e}s}
11153 \providetranslation{Description (glossaries)}{Magyar\'{a}zat}
11154 \providetranslation{Symbol (glossaries)}{Jel\"{o}l\'{e}s}
11155 \providetranslation{Page List (glossaries)}{Oldalsz\'{a}m}
11156 \providetranslation{Symbols (glossaries)}{Jelek}
11157 \providetranslation{Numbers (glossaries)}{Sz\'{a}mjegyek}
```

8.12 Polish Dictionary

This is a dictionary file provided for use with the package.

```
11158 \ProvidesDictionary{glossaries-dictionary}{Polish}
```

Provide Polish translations:

```
11159 \providetranslation{Glossary}{S\l{}ownik termin\'ow}
11160 \providetranslation{Acronyms}{Skr\'ot}
11161 \providetranslation{Notation (glossaries)}{Termin}
```

```
11162 \providetranslation{Description (glossaries)}{Opis}
11163 \providetranslation{Symbol (glossaries)}{Symbol}
11164 \providetranslation{Page List (glossaries)}{Strony}
11165 \providetranslation{Symbols (glossaries)}{Symbole}
11166 \providetranslation{Numbers (glossaries)}{Liczby}
```

8.13 Serbian Dictionary

This dictionary was provided by Zoran Filipovic.

```
11167 \ProvidesDictionary{glossaries-dictionary}{Serbian}
11168 \providetranslation{Glossary}{Mali re\v cnik}
11169 \providetranslation{Acronyms}{Skra\'cenice}
11170 \providetranslation{Notation (glossaries)}{Oznaka}
11171 \providetranslation{Description (glossaries)}{Opis}
11172 \providetranslation{Symbol (glossaries)}{Simbol}
11173 \providetranslation{Page List (glossaries)}{Stranica}
11174 \providetranslation{Symbols (glossaries)}{Simboli}
11175 \providetranslation{Numbers (glossaries)}{Brojevi}
```

8.14 Spanish Dictionary

This is a dictionary file provided for use with the package.

```
11176 \ProvidesDictionary{glossaries-dictionary}{Spanish}
```

Provide Spanish translations:

```
11177 \providetranslation{Glossary}{Glosario}
11178 \providetranslation{Acronyms}{Siglas}
11179 \providetranslation{Notation (glossaries)}{Entrada}
11180 \providetranslation{Description (glossaries)}{Descripc\'ion}
11181 \providetranslation{Symbol (glossaries)}{S\'{\i}mbolo}
11182 \providetranslation{Page List (glossaries)}{Lista de p\'aginas}
11183 \providetranslation{Symbols (glossaries)}{S\'{\i}mbolos}
11184 \providetranslation{Numbers (glossaries)}{N\'umeros}
```

Glossary

makeindex An indexing application. [10](#), [24](#), [25](#), [159](#)

xindy An flexible indexing application with multilingual support written in Perl. [10](#), [24](#), [25](#), [159](#)

Change History

| | | | |
|------|--|------|---|
| ?? | | 1.09 | |
| | super: fixed typo in \subglossentry (\glossentrydesc) | | \@mfu@nocaplist: new 245 |
| 1.01 | General: Added range facility in format key 97 | | \capitalisewords: added check for words that shouldn't be capitalised 245 |
| | \writeist: Added spaces after \delimN and \delimR in ist file 144 | 1.1 | \gMFUnocap: new 245 |
| 1.03 | \makefirststuc: changed 'pro- tected@edef to 'def 243 | | \mfu@checkword: new 245 |
| 1.04 | General: Added \glstextformat 81 | | \MFUclear: new 246 |
| 1.05 | \glossarysection: added \@mkboth to \glossarysection 36 | | \@glossarysection: numbered sections and auto label added 38 |
| | \gls@defglossaryentry: Changed the default value of the sort key to just the value of the name key 71 | | \@gls@tmpb: changed \toksdef to \newtoks 99 |
| | \glsmakefirststuc: new 244 | | \@gls@toc: numberline added .. 39 |
| 1.06 | General: now requires etoolbox . 243 | | \@p@glossarysection: num- bered sections and auto label added 38 |
| | \capitalisewords: new 245 | | General: Added support for trans- lator package 31 |
| | \xcapitalisewords: new 246 | | amsgen now loaded (\new@ifnextchar needed) 5 |
| 1.07 | \@gls@link: fixed bug caused by \theglsentrycounter set- ting the page number too soon 94 | | translate: translate option added 22 |
| | \glsadd: fixed bug caused by \theglsentrycounter set- ting the page number too soon 141 | | \setglossarysection: new ... 37 |
| 1.08 | General: Added babel support ... 31 | | numberedsection: numbered- section package option added . 6 |
| | \capitalisewords: made robust 245 | | numberline: numberline option added 6 |
| | listgroup: changed listgroup style to use \glsgrouptitle 252 | | 1.12 |
| | altlistgroup: changed al- listgroup style to use \glsgrouptitle 253 | | \@GLSp1: now uses \glsentrydescplural and \glsentrysymbolplural instead of \glsentrydesc and \glsentrysymbol 111 |
| | \makefirststuc: made robust ... 243 | | \@G1sp1@: now uses \glsentrydescplural and \glsentrysymbolplural instead of \glsentrydesc and \glsentrysymbol 110 |
| | | | \@glsp1@: now uses \glsentrydescplural and \glsentrysymbolplural instead of \glsentrydesc and \glsentrysymbol 109 |
| | | | General: added check for \hypertarget separate to \hyperlink (memoir de- fines \hyperlink but not \hypertarget) 105 |

| | | | |
|---|----------|--|---|
| \descriptionplural: new | 59 | \glsnavigation: changed to only use labels for groups that are present | 248 |
| \gls@defglossaryentry: Changed default first plural to be first key with s appended (was text key with s appended) | 71 | 1.15 | \@gls@link: added \glslabel . General: Added \glssettoctitle |
| descriptionplural support added | 71 | | \gls@defglossaryentry: check for \@glo@first in descrip- tion |
| symbolplural support added .. | 71 | | check for \@glo@text in sym- bol |
| \Glsentrydescplural: New .. | 135 | | \gls@hypergroup: new .. |
| \glsentrydescplural: New .. | 135 | | 247 |
| \Glsentrysymbolplural: New .. | 136 | | \glsnavhypertarget: added check if rerun required |
| \glsentrysymbolplural: New .. | 136 | | 247 |
| \SetDescriptionFootnoteAcronymStyle\gls@hypergroup: new .. | 247 | | \glssettoctitle: new |
| Added \protect before \footnote and \glslink . | 217 | | 30 |
| \SetFootnoteAcronymStyle: Added \protect before \footnote and \glslink . | 223 | | \printglossary: changed the way the TOC title is set |
| symbolplural: new | 60 | 1.16 | 166 |
| 1.13 | | | \@GLS@: Test glossary type is \acronymtype in addition to checking if footnote option has been used |
| General: Add Polish support | 352, 355 | | 108 |
| fixed bug that ignored 3rd pa- rameter | 112–120 | | \@GLSp1: Test glossary type is \acronymtype in addition to checking if footnote option has been used |
| \ACRfullpl: new | 199 | | 111 |
| \Acrfullpl: new | 198 | | \@Gls@: Test glossary type is \acronymtype in addition to checking if footnote option has been used |
| \acrfullpl: new | 198 | | 107 |
| \acrpluralsuffix: New | 196 | | \@Glspl@: Test glossary type is \acronymtype in addition to checking if footnote option has been used |
| \gls@defglossaryentry: Changed default first value .. | 71 | | 110 |
| Changed default firstplural value | 71 | | \@gls@: Test glossary type is \acronymtype in addition to checking if footnote option has been used |
| Removed restriction on only using \newglossaryentry in the preamble | 76 | | 107 |
| \newacronym: Removed re- striction on only using \newacronym in the preamble | 196 | | \@glsdisp: Test glossary type is \acronymtype in addition to checking if footnote option has been used |
| 1.14 | | | 111 |
| \@gls@hypergroup: new | 247 | | \@glspl@: Test glossary type is \acronymtype in addition to checking if footnote option has been used |
| General: added nonumberlist key to \printglossary | 182 | | 109 |
| added numberedsection key to \printglossary | 180 | | \@glstarget: raised the hyper- target so the target text doesn't |
| \firstracronymfont: new | 199 | | |
| \glsautoprefix: new | 6 | | |
| \glsnavhyperlink: changed 'edef to 'protected@edef .. | 247 | | |
| \glsnavhypertarget: added write to aux file | 247 | | |

| | |
|---|-----|
| scroll off the top of the page | 105 |
| \gls@defglossaryentry: | |
| Changed def to let | 71 |
| 1.17 | |
| \@do@wrglossary: new | 161 |
| \@do@seeglossary: new | 164 |
| \@glo@storeentry: new | 77 |
| \@gls@glossary: changed definition to use \index instead of \index | 159 |
| \@glsdefaultplural: new | 62 |
| \@glsdefaultsort: new | 63 |
| \@glshypernumber: new | 193 |
| \@glsnoname: new | 62 |
| \@glsnonextpages: new | 182 |
| General: added Brazilian dictionary | 356 |
| Added Brazilian support | 352 |
| added xindy support | 24 |
| parent: new | 61 |
| see: new | 60 |
| \gls@defglossaryentry: added nonumberlist key | 71 |
| added parent key | 71 |
| added see key | 71 |
| Stored main part of entry format when entry is defined | 76 |
| \gls@suffixF: new | 34 |
| \gls@suffixFF: new | 35 |
| \gls@wrglossary: modified to allow for xindy support | 159 |
| \glshyperlink: new | 141 |
| \glshypernumber: modified to allow material to be attached to location | 192 |
| \glsnavhyperlink: replaced 'hyperlink to '@glslink | 247 |
| \glsnavhypertarget: replaced 'hypertarget to '@glstarget .. | 247 |
| \glssee: new | 165 |
| \glsseeformat: new | 165 |
| \glsSetSuffixF: new | 34 |
| \glsSetSuffixFF: new | 35 |
| \ifglsxindy: new | 24 |
| \istfilename: added xindy support | 33 |
| \newglossarystyle: made \newglossarystyle long .. | 191 |
| \nopostdesc: new | 32 |
| nonumberlist: new | 61 |
| \printglossary: added check to determine if \printglossary is already defined | 166 |
| added print language to aux file .. | 166 |
| order: order package option added | 24 |
| \writeist: added xindy support .. | 144 |
| 1.18 | |
| \@gls@loadlist: new | 8 |
| \@gls@loadlong: new | 8 |
| \@gls@loadsuper: new | 8 |
| \@gls@loadtree: new | 8 |
| \gls@defglossaryentry: Changed default value of sort to \glsdefaultsort | 71 |
| moved sort sanitization to \newglossaryentry | 75 |
| \glstarget: new | 186 |
| \oldacronym: new | 195 |
| nolist: new | 8 |
| nolong: new | 8 |
| sort: moved sanitization to \newglossaryentry | 59 |
| nostyles: new | 9 |
| nosuper: new | 8 |
| notree: new | 9 |
| 1.19 | |
| \glsclearpage: new | 39 |
| \glsdisp: new | 111 |
| \SetDescriptionAcronymStyle: changed \acronymfont to use \textsmaller instead of \smaller | 221 |
| \SetDescriptionFootnoteAcronymStyle: changed \acronymfont to use \textsmaller instead of \smaller | 217 |
| \SetFootnoteAcronymStyle: changed \acronymfont to use \textsmaller instead of \smaller | 223 |
| \SetSmallAcronymStyle: changed \acronymfont to use \textsmaller instead of \smaller | 226 |
| 1.2 | |
| General: fixed bug in ngerman captions | 349 |

| | | | | |
|------|--|----------|---|-----|
| 2.01 | \@gls@link: moved \@do@wrglossary before term is displayed to prevent unwanted whatsit | 95 | \@glspl@: Added check for hyperfirst | 109 |
| | \forallglossaries: replaced \ifthenelse with \ifx | 48 | \glsglossarymark: Added check to see if it's already defined .. | 37 |
| | \forglsentries: replaced \ifthenelse with \ifx | 49 | hyperfirst: new | 22 |
| | \glsdefmain: new | 12 | 2.04 | |
| | \glsdescwidth: changed \linewidth to \hsize . | 254, 269 | \@GLS@: Changed test to check if glossary type has been identified as a list of acronyms ... | 108 |
| | \glslistdottedwidth: changed \linewidth to \hsize | 254 | \@GLSp1: Changed test to check if glossary type has been identified as a list of acronyms ... | 111 |
| | \glspagelistwidth: changed \linewidth to \hsize . | 254, 269 | \@Gls@: Changed test to check if glossary type has been identified as a list of acronyms ... | 107 |
| | nomain: added nomain package option | 13 | \@Glspl@: Changed test to check if glossary type has been identified as a list of acronyms ... | 110 |
| | \writeist: removed item_02 - no such makeindex key | 148 | \@glossaryentryfield: new .. | 76 |
| 2.02 | \@printglossary: suppressed warning globally rather than locally | 169 | \@glossarysubentryfield: new | 77 |
| | General: Changed Brazil to Brazilian | 356 | \@gls@: Changed test to check if glossary type has been identified as a list of acronyms ... | 107 |
| | false will prevent automatic loading of translator package | 28 | \@glsacronymlists: new | 14 |
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