

The `hologo` package

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Abstract

This package starts a collection of logos with support for bookmarks strings.

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1 Documentation

1.1 Logo macros

`\hologo {⟨name⟩}`

Macro `\hologo` sets the logo with name $\langle name \rangle$. The following table shows the supported names.

name	variant	logo	since
AmSLaTeX		$\mathcal{A}\mathcal{M}\mathcal{S}\text{-}\mathcal{L}\text{A}\text{T}\text{E}\text{X}$	2010/04/16
AmSTeX		$\mathcal{A}\mathcal{M}\mathcal{S}\text{-}\text{T}\text{E}\text{X}$	2010/04/16
ConTeXt		ConT _E Xt	2011/03/25
ConTeXt	narrow	ConT _E Xt	2011/03/25
ConTeXt	simple	ConT _E Xt	2011/03/25
eTeX		$\varepsilon\text{-T}\text{E}\text{X}$	2010/04/08
iniTeX		iniT _E X	2010/11/21
LaTeX		L ^A T _E X	2010/04/08
LaTeX2e		L ^A T _E X 2 _ε	2010/04/08
LaTeX3		L ^A T _E X3	2010/04/24
LaTeXe		L ^A T _E X 2 _ε	2010/04/08
LuaLaTeX		LuaL ^A T _E X	2010/04/08
LuaTeX		LuaT _E X	2010/04/08
pdfTeX		pdfT _E X	2010/04/08
pdfLaTeX		pdfL ^A T _E X	2010/04/08
plainTeX		plain T _E X	2010/04/08
plainTeX	space	plain T _E X	2010/04/16
plainTeX	hyphen	plain-T _E X	2010/04/16
plainTeX	runtogether	plainT _E X	2010/04/16
TeX		T _E X	2010/04/08
virTeX		iniT _E X	2010/11/21
VTeX		VT _E X	2010/04/24
XeLaTeX		X _Ǝ L ^A T _E X	2010/04/08
XeTeX		X _Ǝ T _E X	2010/04/08

`\Hologo {⟨name⟩}`

Macro `\Hologo` starts the logo $\langle name \rangle$ with an uppercase letter.

1.2 Setup macros

The package does not support package options, but the following setup macros can be used to set options.

`\hologoSetup {⟨key value list⟩}`

Macro `\hologoSetup` sets global options.

`\hologoLogoSetup {⟨logo⟩} {⟨key value list⟩}`

Some options can also be used to configure a logo. These settings take precedence over global option settings.

1.3 Options

There are boolean and string options:

Boolean option: It takes `true` or `false` as value. If the value is omitted, then `true` is used.

String option: A value must be given as string. (But the string might be empty.)

The following options can be used both in `\hologoSetup` and `\hologoLogoSetup`:

break: enables or disables line breaks inside the logo. This setting is refined by options `hyphenbreak`, `spacebreak` or `discretionarybreak`. Default is `false`.

hyphenbreak: enables or disables the line break right after the hyphen character.

spacebreak: enables or disables line breaks at space characters.

discretionarybreak: enables or disables line breaks at hyphenation points (inserted by `\-`).

Macro `\hologoLogoSetup` also knows:

variant: This is a string option. It specifies a variant of a logo that must exist. An empty string selects the package default variant.

Example:

```
\hologoSetup{break=false}
\hologoLogoSetup{plainTeX}{variant=hyphen,hyphenbreak}
Then “plain-TeX” contains one break point after the hyphen.
```

2 Implementation

```
1 (*package)
```

Reload check, especially if the package is not used with L^AT_EX.

```
2 \begingroup\catcode61\catcode48\catcode32=10\relax%
3 \catcode13=5 % ^^M
4 \endlinechar=13 %
5 \catcode35=6 % #
6 \catcode39=12 % '
7 \catcode44=12 % ,
8 \catcode45=12 % -
9 \catcode46=12 % .
10 \catcode58=12 % :
11 \catcode64=11 % @
12 \catcode123=1 % {
13 \catcode125=2 % }
14 \expandafter\let\expandafter\x\csname ver@hologo.sty\endcsname
15 \ifx\x\relax % plain-TeX, first loading
16 \else
17 \def\empty{}%
18 \ifx\x\empty % LaTeX, first loading,
```

```

19      % variable is initialized, but \ProvidesPackage not yet seen
20      \else
21        \expandafter\ifx\csname PackageInfo\endcsname\relax
22        \def\x#1#2{%
23          \immediate\write-1{Package #1 Info: #2.}%
24        }%
25      \else
26        \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
27      \fi
28      \x{hologo}{The package is already loaded}%
29      \aftergroup\endinput
30    \fi
31  \fi
32 \endgroup%

```

Package identification:

```

33 \begingroup\catcode61\catcode48\catcode32=10\relax%
34 \catcode13=5 % ^^M
35 \endlinechar=13 %
36 \catcode35=6 % #
37 \catcode39=12 % '
38 \catcode40=12 % (
39 \catcode41=12 % )
40 \catcode44=12 % ,
41 \catcode45=12 % -
42 \catcode46=12 % .
43 \catcode47=12 % /
44 \catcode58=12 % :
45 \catcode64=11 % @
46 \catcode91=12 % [
47 \catcode93=12 % ]
48 \catcode123=1 % {
49 \catcode125=2 % }
50 \expandafter\ifx\csname ProvidesPackage\endcsname\relax
51   \def\x#1#2#3[#4]{\endgroup
52     \immediate\write-1{Package: #3 #4}%
53     \xdef#1{#4}%
54   }%
55 \else
56   \def\x#1#2[#3]{\endgroup
57     #2[{#3}]%
58     \ifx#1\@undefined
59       \xdef#1{#3}%
60     \fi
61     \ifx#1\relax
62       \xdef#1{#3}%
63     \fi
64   }%
65 \fi
66 \expandafter\x\csname ver@hologo.sty\endcsname
67 \ProvidesPackage{hologo}%
68 [2011/04/21 v1.5 Logo collection (H0)]%
69 \begingroup\catcode61\catcode48\catcode32=10\relax%
70 \catcode13=5 % ^^M
71 \endlinechar=13 %
72 \catcode123=1 % {
73 \catcode125=2 % }
74 \catcode64=11 % @
75 \def\x{\endgroup
76   \expandafter\edef\csname H0LOGO@AtEnd\endcsname{%
77     \endlinechar=\the\endlinechar\relax
78     \catcode13=\the\catcode13\relax
79     \catcode32=\the\catcode32\relax

```

```

80      \catcode35=\the\catcode35\relax
81      \catcode61=\the\catcode61\relax
82      \catcode64=\the\catcode64\relax
83      \catcode123=\the\catcode123\relax
84      \catcode125=\the\catcode125\relax
85      }%
86  }%
87  \x\catcode61\catcode48\catcode32=10\relax%
88  \catcode13=5 % ^^M
89  \endlinechar=13 %
90  \catcode35=6 % #
91  \catcode64=11 % @
92  \catcode123=1 % {
93  \catcode125=2 % }
94  \def\TMP@EnsureCode#1#2{%
95    \edef\HOLGO@AtEnd{%
96      \HOLGO@AtEnd
97      \catcode#1=\the\catcode#1\relax
98    }%
99    \catcode#1=#2\relax
100 }
101 \TMP@EnsureCode{10}{12}% ^^J
102 \TMP@EnsureCode{33}{12}% !
103 \TMP@EnsureCode{36}{3}% $
104 \TMP@EnsureCode{39}{12}% '
105 \TMP@EnsureCode{40}{12}% (
106 \TMP@EnsureCode{41}{12}% )
107 \TMP@EnsureCode{42}{12}% *
108 \TMP@EnsureCode{43}{12}% +
109 \TMP@EnsureCode{44}{12}% ,
110 \TMP@EnsureCode{45}{12}% -
111 \TMP@EnsureCode{46}{12}% .
112 \TMP@EnsureCode{47}{12}% /
113 \TMP@EnsureCode{58}{12}% :
114 \TMP@EnsureCode{59}{12}% ;
115 \TMP@EnsureCode{60}{12}% <
116 \TMP@EnsureCode{62}{12}% >
117 \TMP@EnsureCode{63}{12}% ?
118 \TMP@EnsureCode{91}{12}% [
119 \TMP@EnsureCode{93}{12}% ]
120 \TMP@EnsureCode{94}{7}% ^ (superscript)
121 \TMP@EnsureCode{95}{8}% _ (subscript)
122 \TMP@EnsureCode{96}{12}% '
123 \TMP@EnsureCode{124}{12}% |
124 \edef\HOLGO@AtEnd{%
125   \HOLGO@AtEnd
126   \escapechar\the\escapechar\relax
127   \noexpand\endinput
128 }
129 \escapechar=92 %

```

2.1 Load resources

```

130 \begingroup\expandafter\expandafter\expandafter\endgroup
131 \expandafter\ifx\csname RequirePackage\endcsname\relax
132   \input ltxcmds.sty\relax
133   \input infwarerr.sty\relax
134   \input kvsetkeys.sty\relax
135   \input kvdefinekeys.sty\relax
136   \input pdftexcmds.sty\relax
137   \input ifpdf.sty\relax
138   \input ifluatex.sty\relax
139   \input ifxetex.sty\relax

```

```

140 \input ifvtex.sty\relax
141 \else
142 \RequirePackage{ltxcmds}[2010/04/16]%
143 \RequirePackage{infwarerr}[2010/04/08]%
144 \RequirePackage{kvsetkeys}[2010/03/01]%
145 \RequirePackage{kvdefinekeys}[2010/03/01]%
146 \RequirePackage{pdftexcmds}[2010/04/01]%
147 \RequirePackage{ifpdf}[2010/01/28]%
148 \RequirePackage{ifluatex}[2010/03/01]%
149 \RequirePackage{ifxetex}[2009/01/23]%
150 \RequirePackage{ifvtex}[2010/03/01]%
151 \fi

```

`\Hologo@ifDefined`

```

152 \def\Hologo@ifExists#1{%
153   \ifx\@undefined#1%
154     \expandafter\ltx@secondoftwo
155   \else
156     \ifx\relax#1%
157       \expandafter\ltx@secondoftwo
158     \else
159       \expandafter\expandafter\expandafter\ltx@firstoftwo
160     \fi
161   \fi
162 }

```

2.2 Setup macros

`\hologoSetup`

```

163 \def\hologoSetup{%
164   \let\Hologo@name\relax
165   \Hologo@Setup
166 }

```

`\hologoLogoSetup`

```

167 \def\hologoLogoSetup#1{%
168   \edef\Hologo@name{#1}%
169   \ltx@ifUndefined{HoLogo@\Hologo@name}{%
170     \@PackageError{hologo}{%
171       Unknown logo ‘\Hologo@name’%
172     }\@ehc
173     \@gobble
174   }{%
175     \Hologo@Setup
176   }%
177 }

```

`\Hologo@Setup`

```

178 \def\Hologo@Setup{%
179   \kvsetkeys{HoLogo}%
180 }

```

2.3 Options

`\Hologo@DefineBoolOption`

```

181 \def\Hologo@DeclareBoolOption#1{%
182   \expandafter\chardef\csname HologoOPT@#1\endcsname\ltx@zero
183   \kv@define@key{HoLogo}{#1}[true]{%
184     \def\Hologo@temp{##1}%
185     \ifx\Hologo@temp\Hologo@true
186       \ifx\Hologo@name\relax

```

```

187     \expandafter\chardef\csname HOLOGOOPT@#1\endcsname=\ltx@one
188   \else
189     \expandafter\chardef\csname
190       HoLogoOpt@#1@HOLOGO@name\endcsname\ltx@one
191   \fi
192   \HOLOGO@SetBreakAll{#1}%
193 \else
194   \ifx\HOLOGO@temp\HOLOGO@false
195     \ifx\HOLOGO@name\relax
196       \expandafter\chardef\csname HOLOGOOPT@#1\endcsname=\ltx@zero
197     \else
198       \expandafter\chardef\csname
199         HoLogoOpt@#1@HOLOGO@name\endcsname=\ltx@zero
200     \fi
201     \HOLOGO@SetBreakAll{#1}%
202   \else
203     \@PackageError{hologo}{%
204       Unknown value ‘#1’ for boolean option ‘#1’.\MessageBreak
205       Known values are ‘true’ and ‘false’%
206     }\@ehc
207   \fi
208 \fi
209 }%
210 }

```

\HOLOGO@SetBreakAll

```

211 \def\HOLOGO@SetBreakAll#1{%
212   \def\HOLOGO@temp{#1}%
213   \ifx\HOLOGO@temp\HOLOGO@break
214     \ifx\HOLOGO@name\relax
215       \chardef\HOLOGOOPT@hyphenbreak=\HOLOGOOPT@break
216       \chardef\HOLOGOOPT@spacebreak=\HOLOGOOPT@break
217       \chardef\HOLOGOOPT@discretionarybreak=\HOLOGOOPT@break
218     \else
219       \expandafter\chardef
220         \csname HoLogoOpt@hyphenbreak@HOLOGO@name\endcsname=%
221       \csname HoLogoOpt@break@HOLOGO@name\endcsname
222     \expandafter\chardef
223       \csname HoLogoOpt@spacebreak@HOLOGO@name\endcsname=%
224     \csname HoLogoOpt@break@HOLOGO@name\endcsname
225     \expandafter\chardef
226       \csname HoLogoOpt@discretionarybreak@HOLOGO@name
227       \endcsname=%
228     \csname HoLogoOpt@break@HOLOGO@name\endcsname
229   \fi
230 \fi
231 }

```

\HOLOGO@true

```
232 \def\HOLOGO@true{true}
```

\HOLOGO@false

```
233 \def\HOLOGO@false{false}
```

\HOLOGO@break

```
234 \def\HOLOGO@break{break}
```

```
235 \HOLOGO@DeclareBoolOption{break}
```

```
236 \HOLOGO@DeclareBoolOption{hyphenbreak}
```

```
237 \HOLOGO@DeclareBoolOption{spacebreak}
```

```
238 \HOLOGO@DeclareBoolOption{discretionarybreak}
```

```

239 \kv@define@key{HoLogo}{variant}{%
240   \ifx\HOLOGO@name\relax
241     \@PackageError{hologo}{%
242       Option 'variant' is not available in \string\hologoSetup,%
243       \MessageBreak
244       Use \string\hologoLogoSetup\space instead%
245     }\@ehc
246   \else
247     \edef\HOLOGO@temp{#1}%
248     \ifx\HOLOGO@temp\ltx@empty
249       \expandafter
250       \let\csname HoLogoOpt@variant@\HOLOGO@name\endcsname\@undefined
251     \else
252       \ltx@ifundefined{HoLogo@\HOLOGO@name @\HOLOGO@temp}{%
253         \@PackageError{hologo}{%
254           Unknown variant '\HOLOGO@temp' of logo '\HOLOGO@name'%
255         }\@ehc
256       }{%
257         \expandafter
258         \let\csname HoLogoOpt@variant@\HOLOGO@name\endcsname
259           \HOLOGO@temp
260       }%
261     \fi
262   \fi
263 }

```

\HOLOGO@Variant

```

264 \def\HOLOGO@Variant#1{%
265   #1%
266   \ltx@ifundefined{HoLogoOpt@variant@#1}{%
267     {%
268       @\csname HoLogoOpt@variant@#1\endcsname
269     }%
270 }

```

2.4 Break/no-break support

\HOLOGO@space

```

271 \def\HOLOGO@space{%
272   \ltx@ifundefined{HoLogoOpt@spacebreak@\HOLOGO@name}{%
273     \ltx@ifundefined{HoLogoOpt@break@\HOLOGO@name}{%
274       \chardef\HOLOGO@temp=\HOLOGO@OPT@spacebreak
275     }{%
276       \chardef\HOLOGO@temp=%
277       \csname HoLogoOpt@break@\HOLOGO@name\endcsname
278     }%
279   }{%
280     \chardef\HOLOGO@temp=%
281     \csname HoLogoOpt@spacebreak@\HOLOGO@name\endcsname
282   }%
283   \ifcase\HOLOGO@temp
284     \penalty10000 %
285   \fi
286   \ltx@space
287 }

```

\HOLOGO@hyphen

```

288 \def\HOLOGO@hyphen{%
289   \ltx@ifundefined{HoLogoOpt@hyphenbreak@\HOLOGO@name}{%
290     \ltx@ifundefined{HoLogoOpt@break@\HOLOGO@name}{%
291       \chardef\HOLOGO@temp=\HOLOGO@OPT@hyphenbreak

```

```

292 }{%
293   \chardef\HOLOGO@temp=%
294   \csname HoLogoOpt@break@\HOLOGO@name\endcsname
295 }%
296 }{%
297   \chardef\HOLOGO@temp=%
298   \csname HoLogoOpt@hyphenbreak@\HOLOGO@name\endcsname
299 }%
300 \ifcase\HOLOGO@temp
301   \ltx@mbox{-}%
302 \else
303   -%
304 \fi
305 }

```

\HOLOGO@discretionary

```

306 \def\HOLOGO@discretionary{%
307   \ltx@ifundefined{HoLogoOpt@discretionarybreak@\HOLOGO@name}{%
308     \ltx@ifundefined{HoLogoOpt@break@\HOLOGO@name}{%
309       \chardef\HOLOGO@temp=\HOLOGO@OPT@discretionarybreak
310     }{%
311       \chardef\HOLOGO@temp=%
312       \csname HoLogoOpt@break@\HOLOGO@name\endcsname
313     }%
314   }{%
315     \chardef\HOLOGO@temp=%
316     \csname HoLogoOpt@discretionarybreak@\HOLOGO@name\endcsname
317   }%
318   \ifcase\HOLOGO@temp
319   \else
320     \-%
321   \fi
322 }

```

\HOLOGO@mbox

```

323 \def\HOLOGO@mbox#1{%
324   \ltx@ifundefined{HoLogoOpt@break@\HOLOGO@name}{%
325     \chardef\HOLOGO@temp=\HOLOGO@OPT@hyphenbreak
326   }{%
327     \chardef\HOLOGO@temp=%
328     \csname HoLogoOpt@break@\HOLOGO@name\endcsname
329   }%
330   \ifcase\HOLOGO@temp
331     \ltx@mbox{#1}%
332   \else
333     #1%
334   \fi
335 }

```

2.5 \hologo

```

336 \HOLOGO@IfExists\hologo{%
337   \@PackageError{hologo}{%
338     \string\hologo\ltx@space is already defined.\MessageBreak
339     Package loading is aborted%
340   }\@ehc
341   \HOLOGO@AtEnd
342 }%
343 \HOLOGO@IfExists\hologorobust{%
344   \@PackageError{hologo}{%
345     \string\hologorobust\ltx@space is already defined.\MessageBreak
346     Package loading is aborted%

```

```

347 } \@ehc
348 \HOLOGO@AtEnd
349 }%

\hologorobust
350 \ltx@ifundefined{protected}{%
351   \ltx@ifundefined{DeclareRobustCommand}{%
352     \def\hologorobust#1%
353   }{%
354     \DeclareRobustCommand*\hologorobust[1]%
355   }%
356 }{%
357   \protected\def\hologorobust#1%
358 }%
359 {%
360   \edef\HOLOGO@name{#1}%
361   \ltx@ifundefined{HoLogo@\HOLOGO@Variant\HOLOGO@name}{%
362     \@PackageError{hologo}{%
363       Unknown logo '\HOLOGO@name'%
364     } \@ehc
365     ?\HOLOGO@name?%
366   }{%
367     \csname HoLogo@\HOLOGO@Variant\HOLOGO@name\endcsname\ltx@firstoftwo
368   }%
369 }

\hologo
370 \def\hologo#1{%
371   \HOLOGO@ifExists\texorpdfstring\texorpdfstring\ltx@firstoftwo
372   {%
373     \hologorobust{#1}%
374   }{%
375     \ltx@ifundefined{HoLogoBkm@\HOLOGO@Variant{#1}}{%
376       \ltx@ifundefined{HoLogo@#1}{?#1?}{#1}%
377     }{%
378       \csname HoLogoBkm@\HOLOGO@Variant{#1}\endcsname\ltx@firstoftwo
379     }%
380   }%
381 }

\Hologorobust
382 \ltx@ifundefined{protected}{%
383   \ltx@ifundefined{DeclareRobustCommand}{%
384     \def\Hologorobust#1%
385   }{%
386     \DeclareRobustCommand*\Hologorobust[1]%
387   }%
388 }{%
389   \protected\def\Hologorobust#1%
390 }%
391 {%
392   \edef\HOLOGO@name{#1}%
393   \ltx@ifundefined{HoLogo@\HOLOGO@Variant\HOLOGO@name}{%
394     \@PackageError{hologo}{%
395       Unknown logo '\HOLOGO@name'%
396     } \@ehc
397     ?\HOLOGO@name?%
398   }{%
399     \csname HoLogo@\HOLOGO@Variant\HOLOGO@name\endcsname\ltx@secondoftwo
400   }%
401 }

```

\Hologo

```
402 \def\Hologo#1{%
403   \Hologo@IfExists\texorpdfstring\texorpdfstring\ltx@firstoftwo
404   {%
405     \Hologorobust{#1}%
406   }{%
407     \ltx@ifundefined{HoLogoBkm@\Hologo@Variant{#1}}{%
408       \ltx@ifundefined{HoLogo@#1}{?#1?}{#1}%
409     }{%
410       \csname HoLogoBkm@\Hologo@Variant{#1}\endcsname\ltx@secondoftwo
411     }%
412   }%
413 }
```

2.6 Helpers

\Hologo@PdfdocUnicode

```
414 \def\Hologo@PdfdocUnicode{%
415   \ifx\ifHy@unicode\iftrue
416     \expandafter\ltx@secondoftwo
417   \else
418     \expandafter\ltx@firstoftwo
419   \fi
420 }
```

\Hologo@Math

```
421 \def\Hologo@MathSetup{%
422   \mathsurroundOpt\relax
423   \Hologo@IfExists\f@series{%
424     \if b\expandafter\ltx@car\f@series x\@nil
425     \csname boldmath\endcsname
426   \fi
427   }{%}%
428 }
```

\Hologo@TempDimen

```
429 \dimendef\Hologo@TempDimen=\ltx@zero
```

\Hologo@NegativeKerning

```
430 \def\Hologo@NegativeKerning#1{%
431   \begingroup
432     \Hologo@TempDimen=0pt\relax
433     \comma@parse@normalized{#1}{%
434       \ifdim\Hologo@TempDimen=0pt %
435         \expandafter\Hologo@@NegativeKerning\comma@entry
436       \fi
437       \ltx@gobble
438     }%
439     \ifdim\Hologo@TempDimen<0pt %
440       \kern\Hologo@TempDimen
441     \fi
442   \endgroup
443 }
```

\Hologo@@NegativeKerning

```
444 \def\Hologo@@NegativeKerning#1#2{%
445   \setbox\ltx@zero\hbox{#1#2}%
446   \Hologo@TempDimen=\wd\ltx@zero
447   \setbox\ltx@zero\hbox{#1\kern0pt#2}%
448   \advance\Hologo@TempDimen by -\wd\ltx@zero
449 }
```

`\HOLOGO@SpaceFactor`

```
450 \def\HOLOGO@SpaceFactor{%  
451   \spacefactor1000 %  
452 }
```

2.7 T_EX and friends

2.7.1 T_EX

`\HoLogo@TeX` Source: L^AT_EX kernel.

```
453 \def\HoLogo@TeX#1{%  
454   T\kern-.1667em\lower.5ex\hbox{E}\kern-.125emX\HOLOGO@SpaceFactor  
455 }
```

2.7.2 plain T_EX

`\HoLogo@plainTeX@space` Source: “The T_EXbook”

```
456 \def\HoLogo@plainTeX@space#1{%  
457   \HOLOGO@mbox{#1{p}{P}lain}\HOLOGO@space\hologo{TeX}%  
458 }
```

`\HoLogoBkm@plainTeX@space`

```
459 \def\HoLogoBkm@plainTeX@space#1{%  
460   #1{p}{P}lain \hologo{TeX}%  
461 }
```

`\HoLogo@plainTeX@hyphen`

```
462 \def\HoLogo@plainTeX@hyphen#1{%  
463   \HOLOGO@mbox{#1{p}{P}lain}\HOLOGO@hyphen\hologo{TeX}%  
464 }
```

`\HoLogoBkm@plainTeX@hyphen`

```
465 \def\HoLogoBkm@plainTeX@hyphen#1{%  
466   #1{p}{P}lain\hologo{TeX}%  
467 }
```

`\HoLogo@plainTeX@runtogether`

```
468 \def\HoLogo@plainTeX@runtogether#1{%  
469   \HOLOGO@mbox{#1{p}{P}lain\hologo{TeX}}%  
470 }
```

`\HoLogoBkm@plainTeX@runtogether`

```
471 \def\HoLogoBkm@plainTeX@runtogether#1{%  
472   #1{p}{P}lain\hologo{TeX}%  
473 }
```

`\HoLogo@plainTeX`

```
474 \def\HoLogo@plainTeX{\HoLogo@plainTeX@space}
```

`\HoLogoBkm@plainTeX`

```
475 \def\HoLogoBkm@plainTeX{\HoLogoBkm@plainTeX@space}
```

2.7.3 L^AT_EX

\HoLogo@LaTeX Source: L^AT_EX kernel.

```

476 \def\HoLogo@LaTeX#1{%
477   L%
478   \kern-.36em%
479   \begingroup
480     \setbox\ltx@zero\hbox{T}%
481     \vbox to\ht\ltx@zero{%
482       \hbox{%
483         \ltx@ifundefined{check@mathfonts}{%
484           \csname sevenrm\endcsname
485         }{%
486           \check@mathfonts
487           \fontsize\sf@size\z@
488           \math@fontsfalse\selectfont
489         }%
490         A%
491       }%
492       \vss
493     }%
494   \endgroup
495   \kern-.15em%
496   \hologo{TeX}%
497 }
```

2.7.4 L^AT_EX 2_ε

\HoLogo@LaTeXe Source: L^AT_EX kernel

```

498 \def\HoLogo@LaTeXe#1{%
499   \hologo{LaTeX}%
500   \kern.15em%
501   \hbox{%
502     \HOLOGO@MathSetup
503     2%
504     $_{\textstyle\varepsilon}$%
505   }%
506 }
```

\HoLogoBkm@LaTeXe

```

507 \def\HoLogoBkm@LaTeXe#1{%
508   \hologo{LaTeX}%
509   2%
510   \HOLOGO@PdfdocUnicode{e}{\textepsilon}%
511 }
```

\HoLogo@LaTeX2e

```

512 \expandafter\let\csname HoLogo@LaTeX2e\endcsname\HoLogo@LaTeXe
```

\HoLogoBkm@LaTeX2e

```

513 \expandafter\let\csname HoLogoBkm@LaTeX2e\endcsname\HoLogoBkm@LaTeXe
```

2.7.5 L^AT_EX 3

\HoLogo@LaTeX3 Source: L^AT_EX kernel

```

514 \expandafter\def\csname HoLogo@LaTeX3\endcsname#1{%
515   \hologo{LaTeX}%
516   3%
517 }
```

\HoLogoBkm@LaTeX3

```
518 \expandafter\def\csname HoLogoBkm@LaTeX3\endcsname#1{%
519   \hologo{LaTeX}%
520   3%
521 }
```

2.7.6 ε -TeX

\HoLogo@eTeX Source: package etex

```
522 \def\HoLogo@eTeX#1{%
523   \ltx@mbox{%
524     \hbox{%
525       \HOLGO@MathSetup
526       $\varepsilon$%
527       -%
528       \HOLGO@NegativeKerning{-T,T-,To}%
529       \hologo{TeX}%
530     }%
531   }%
532 }
```

\HoLogoBkm@eTeX

```
533 \def\HoLogoBkm@eTeX#1{%
534   \HOLGO@PfdocUnicode{#1{e}{E}}{\textepsilon}%
535   -%
536   \hologo{TeX}%
537 }
```

2.7.7 iniTeX

\HoLogo@iniTeX

```
538 \def\HoLogo@iniTeX#1{%
539   \HOLGO@mbox{%
540     ini\hologo{TeX}%
541   }%
542 }
```

2.7.8 iniTeX

\HoLogo@virTeX

```
543 \def\HoLogo@virTeX#1{%
544   \HOLGO@mbox{%
545     ini\hologo{TeX}%
546   }%
547 }
```

2.7.9 LuaTeX

\HoLogo@LuaTeX The kerning is an idea of Hans Hagen, see mailing list ‘luatex at tug dot org’ in March 2010.

```
548 \def\HoLogo@LuaTeX#1{%
549   \HOLGO@mbox{%
550     Lua%
551     \HOLGO@NegativeKerning{aT,oT,To}%
552     \hologo{TeX}%
553   }%
554 }
```

2.7.10 Lua^AT_EX

\HoLogo@LuaLaTeX

```
555 \def\HoLogo@LuaLaTeX#1{%
556   \HOLOGO@mbox{%
557     Lua%
558     \hologo{LaTeX}%
559   }%
560 }
```

2.7.11 X_TT_EX, X_T^AT_EX

\HoLogo@Xe Source: package dtklogos

```
561 \def\HoLogo@Xe#1{%
562   X%
563   \kern-.1em\relax
564   \ltx@ifundefined{HOLOGO@ReflectBox}\ltx@firstoftwo{%
565     \ltx@ifundefined{HOLOGO@ReflectBox@hologodriver}%
566     \ltx@firstoftwo\ltx@secondoftwo
567   }%
568   {e}{%
569     \lower.5ex\hbox{%
570       \HOLOGO@ReflectBox{E}%
571     }%
572   }%
573 }
```

\HoLogo@XeTeX

```
574 \def\HoLogo@XeTeX#1{%
575   \hologo{Xe}%
576   \kern-.15em\relax
577   \hologo{TeX}%
578 }
```

\HoLogo@XeLaTeX

```
579 \def\HoLogo@XeLaTeX#1{%
580   \hologo{Xe}%
581   \hologo{LaTeX}%
582 }
```

2.7.12 pdfT_EX, pdf^AT_EX

\HoLogo@pdfTeX

```
583 \def\HoLogo@pdfTeX#1{%
584   \HOLOGO@mbox{%
585     #1{p}{P}df\hologo{TeX}%
586   }%
587 }
```

\HoLogo@pdfLaTeX

```
588 \def\HoLogo@pdfLaTeX#1{%
589   \HOLOGO@mbox{%
590     #1{p}{P}df\hologo{LaTeX}%
591   }%
592 }
```

2.7.13 V_TE_X

\HoLogo@VTeX

```
593 \def\HoLogo@VTeX#1{%
```

```

594 \HOLOGO@mbbox{%
595   V\hologo{TeX}%
596 }%
597 }

```

2.7.14 \mathcal{MS} , ...

Source: class amsdtx

\HoLogo@AmS

```

598 \def\HoLogo@AmS#1{%
599   \begingroup
600   \usefont{OMS}{cmsy}{m}{n}%
601   A%
602   \kern-.1667em%
603   \lower.5ex\hbox{M}%
604   \kern-.125em%
605   S%
606   \endgroup
607 }

```

\HoLogoBkm@AmS

```

608 \def\HoLogoBkm@AmS#1{AmS}

```

\HoLogo@AmSTeX

```

609 \def\HoLogo@AmSTeX#1{%
610   \hologo{AmS}%
611   \HOLOGO@hyphen
612   \hologo{TeX}%
613 }

```

\HoLogoBkm@AmSTeX

```

614 \def\HoLogoBkm@AmSTeX#1{AmS-TeX}%

```

\HoLogo@AmSLaTeX

```

615 \def\HoLogo@AmSLaTeX#1{%
616   \hologo{AmS}%
617   \HOLOGO@hyphen
618   \hologo{LaTeX}%
619 }

```

\HoLogoBkm@AmSLaTeX

```

620 \def\HoLogoBkm@AmSLaTeX#1{AmS-LaTeX}%

```

2.7.15 ConTeXt

\HoLogo@ConTeXt@simple

```

621 \def\HoLogo@ConTeXt@simple#1{%
622   \HOLOGO@mbbox{Con}%
623   \HOLOGO@discretionary
624   \HOLOGO@mbbox{\hologo{TeX}t}%
625 }

```

\HoLogo@ConTeXt@narrow

This definition of logo ConTeXt with variant narrow comes from TUGboat's class ltugboat (version 2010/11/15 v2.8).

```

626 \def\HoLogo@ConTeXt@narrow#1{%
627   \HOLOGO@mbbox{C\kern-.0333em}%
628   \HOLOGO@discretionary
629   \kern-.0667em%
630   \HOLOGO@mbbox{\hologo{TeX}\kern-.0333emt}%
631 }

```

\HoLogo@ConTeXt

```
632 \def\HoLogo@ConTeXt{\HoLogo@ConTeXt@narrow}
```

2.8 Driver detection

```
633 \HOLOGO@IfExists\InputIfFileExists{%
634   \InputIfFileExists{hologo.cfg}{%}%
635 }{%
636   \ltx@ifundefined{pdf@filesize}{%
637     \chardef\HOLOGO@temp=15 %
638     \def\HOLOGO@CheckRead{%
639       \ifeof\HOLOGO@temp
640     \else
641       \ifcase\HOLOGO@temp
642         \csname newread\endcsname\HOLOGO@temp
643       \else
644         \begingroup
645         \count\ltx@cclv=\HOLOGO@temp
646         \advance\ltx@cclv by -1 %
647         \edef\x{\endgroup
648           \chardef\noexpand\HOLOGO@temp=\the\count\ltx@cclv\relax
649         }%
650         \x
651         \expandafter\expandafter\expandafter\HOLOGO@CheckRead
652       \fi
653     \fi
654   }%
655   \ifeof\HOLOGO@temp
656     \@PackageWarningNoLine{hologo}{%
657       Configuration file ignored, because\MessageBreak
658       a free read register could not be found%
659     }%
660   \else
661     \openin\HOLOGO@temp=hologo.cfg\relax
662     \ifeof\HOLOGO@temp
663       \closein\HOLOGO@temp
664     \else
665       \closein\HOLOGO@temp
666       \input hologo.cfg\relax
667     \fi
668   \fi
669 }{%
670   \edef\HOLOGO@temp{\pdf@filesize{hologo.cfg}}%
671   \ifx\HOLOGO@temp\ltx@empty
672     \else
673       \input hologo.cfg\relax
674     \fi
675   }%
676 }

677 \ltx@ifundefined{DeclareOption}{%
678   \ltx@gobble
679 }{%
680   \ltx@ifundefined{ProcessOptions}\ltx@gobble\ltx@firstofone
681 }%
682 {%
683   \def\HOLOGO@temp#1#2{%
684     \DeclareOption{#1}{\edef\hologodriver{#2}}%
685   }%
686   \kv@parse@normalized{%
687     pdftex,%
688     luatex=pdftex,%
689     dvipdfm,%
```

```

690     dvipdfmx=dvipdfm,%
691     dvips,%
692     dvipsone=dvips,%
693     xdvi=dvips,%
694     xetex,%
695     vtex,%
696   }{%
697     \ifx\kv@value\relax
698       \expandafter\HOLOGO@temp\expandafter{\kv@key}\kv@key
699     \else
700       \expandafter\HOLOGO@temp\expandafter{\kv@key}\kv@value
701     \fi
702     \ltx@gobbletwo
703   }%
704   \ProcessOptions*%
705 }

```

\hologodriver

```

706 \ifpdf
707   \def\hologodriver{pdftex}%
708   \let\HOLOGO@pdfliteral\pdfliteral
709   \ifluatex
710     \ltx@ifundefined{HOLOGO@pdfliteral}{%
711       \ifnum\luatexversion<36 %
712       \else
713         \begingroup
714           \let\HOLOGO@temp\endgroup
715           \ifcase0%
716             \directlua{%
717               if tex.enableprimitives then %
718                 tex.enableprimitives('HOLOGO@', {'pdfliteral'})%
719               else %
720                 tex.print('1')%
721               end%
722             }%
723             \ifx\HOLOGO@pdfliteral\@undefined 1\fi%
724             \relax%
725           \endgroup
726           \let\HOLOGO@temp\relax
727           \global\let\HOLOGO@pdfliteral\HOLOGO@pdfliteral
728         \fi%
729         \HOLOGO@temp
730       \fi
731     }{}%
732   \fi
733   \ltx@ifundefined{HOLOGO@pdfliteral}{%
734     \@PackageWarningNoLine{hologo}{%
735       Cannot find \string\pdfliteral
736     }%
737   }{}%
738 \else
739   \ifxetex
740     \def\hologodriver{xetex}%
741   \else
742     \ifvtex
743       \def\hologodriver{vtex}%
744     \fi
745   \fi
746 \fi

```

\HOLOGO@ReflectBox

```

747 \ltx@ifundefined{reflectbox}{}%
748 \def\HOLOGO@ReflectBox{%

```

```

749 \reflectbox
750 }%
751 \HOLOGO@AtEnd
752 }%
753 \ltx@ifundefined{hologodriver}{%
754 \def\hologodriver{dvips}%
755 \@PackageInfoNoLine{hologo}{Using default driver '\hologodriver'}%
756 }{%
757 \@PackageInfoNoLine{hologo}{Using driver '\hologodriver'}%
758 }
759 \def\HOLOGO@ReflectBox#1{%
760 \ltx@ifundefined{HOLOGO@ReflectBox@\hologodriver}{%
761 \@PackageWarning{hologo}{%
762 Driver '\hologodriver' misses support for \string\reflectbox
763 }%
764 #1%
765 }{%
766 \begingroup
767 \setbox\ltx@zero\hbox{\begingroup#1\endgroup}%
768 \setbox\ltx@two\hbox{%
769 \kern\wd\ltx@zero
770 \csname HOLOGO@ReflectBox@\hologodriver\endcsname{%
771 \hbox to \opt{\copy\z@\hss}%
772 }%
773 }%
774 \wd\ltx@two=\wd\ltx@zero
775 \box\ltx@two
776 \endgroup
777 }%
778 }

779 \def\HOLOGO@temp#1{%
780 \begingroup
781 \def\x{#1}%
782 \expandafter\endgroup
783 \ifx\x\hologodriver
784 \expandafter\ltx@firstofone
785 \else
786 \expandafter\ltx@gobble
787 \fi
788 }

```

\HOLOGO@ReflectBox@pdftex

```

789 \HOLOGO@temp{pdftex}{%
790 \def\HOLOGO@ReflectBox@pdftex#1{%
791 \HOLOGO@pdfliteral{%
792 q -1 0 0 1 0 0 cm%
793 }%
794 #1%
795 \HOLOGO@pdfliteral{%
796 Q%
797 }%
798 }%
799 }

```

\HOLOGO@ReflectBox@dvips

```

800 \HOLOGO@temp{dvips}{%
801 \def\HOLOGO@ReflectBox@dvips#1{%
802 \special{ps:%
803 gsave %
804 currentpoint %
805 currentpoint translate %

```

```

806      -1 1 scale %
807      neg exch neg exch translate%
808    }%
809    #1%
810    \special{ps:%
811      currentpoint %
812      grestore %
813      moveto%
814    }%
815  }%
816 }

```

\HOLOGO@ReflectBox@dvipdfm

```

817 \HOLOGO@temp{dvipdfm}{%
818   \let\HOLOGO@ReflectBox@dvipdfm\HOLOGO@ReflectBox@dvi
819 }

```

Since X_YTeX v0.6.

\HOLOGO@ReflectBox@xetex

```

820 \HOLOGO@temp{xetex}{%
821   \def\HOLOGO@ReflectBox@xetex#1{%
822     \special{x:gsave}%
823     \special{x:scale -1 1}%
824     #1%
825     \special{x:grestore}%
826   }%
827 }

```

\HOLOGO@ReflectBox@vtex

```

828 \HOLOGO@temp{vtex}{%
829   \def\HOLOGO@ReflectBox@vtex#1{%
830     \special{r(-1,0,0,1,0,0}%
831     #1%
832     \special{r)}}%
833   }%
834 }

```

```

835 \HOLOGO@AtEnd%
836 </package>

```

3 Test

3.1 Catcode checks for loading

```

837 <*test1>
838 \catcode'\{=1 %
839 \catcode'\}=2 %
840 \catcode'\#=6 %
841 \catcode'\@=11 %
842 \expandafter\ifx\csname count@\endcsname\relax
843   \countdef\count@=255 %
844 \fi
845 \expandafter\ifx\csname @gobble\endcsname\relax
846   \long\def\@gobble#1{%
847 \fi
848 \expandafter\ifx\csname @firstofone\endcsname\relax
849   \long\def\@firstofone#1{#1}%
850 \fi
851 \expandafter\ifx\csname loop\endcsname\relax
852   \expandafter\@firstofone

```

```

853 \else
854   \expandafter\@gobble
855 \fi
856 {%
857   \def\loop#1\repeat{%
858     \def\body{#1}%
859     \iterate
860   }%
861   \def\iterate{%
862     \body
863     \let\next\iterate
864   \else
865     \let\next\relax
866   \fi
867   \next
868 }%
869 \let\repeat=\fi
870 }%
871 \def\RestoreCatcodes{}
872 \count@=0 %
873 \loop
874   \edef\RestoreCatcodes{%
875     \RestoreCatcodes
876     \catcode\the\count@=\the\catcode\count@\relax
877   }%
878 \ifnum\count@<255 %
879   \advance\count@ 1 %
880 \repeat
881
882 \def\RangeCatcodeInvalid#1#2{%
883   \count@=#1\relax
884   \loop
885     \catcode\count@=15 %
886     \ifnum\count@<#2\relax
887       \advance\count@ 1 %
888     \repeat
889 }
890 \def\RangeCatcodeCheck#1#2#3{%
891   \count@=#1\relax
892   \loop
893     \ifnum#3=\catcode\count@
894     \else
895       \errmessage{%
896         Character \the\count@\space
897         with wrong catcode \the\catcode\count@\space
898         instead of \number#3%
899       }%
900     \fi
901     \ifnum\count@<#2\relax
902       \advance\count@ 1 %
903     \repeat
904 }
905 \def\space{ }
906 \expandafter\ifx\csname LoadCommand\endcsname\relax
907   \def\LoadCommand{\input hologo.sty\relax}%
908 \fi
909 \def\Test{%
910   \RangeCatcodeInvalid{0}{47}%
911   \RangeCatcodeInvalid{58}{64}%
912   \RangeCatcodeInvalid{91}{96}%
913   \RangeCatcodeInvalid{123}{255}%
914   \catcode'\@=12 %

```

```

915 \catcode'\=0 %
916 \catcode'\%=14 %
917 \LoadCommand
918 \RangeCatcodeCheck{0}{36}{15}%
919 \RangeCatcodeCheck{37}{37}{14}%
920 \RangeCatcodeCheck{38}{47}{15}%
921 \RangeCatcodeCheck{48}{57}{12}%
922 \RangeCatcodeCheck{58}{63}{15}%
923 \RangeCatcodeCheck{64}{64}{12}%
924 \RangeCatcodeCheck{65}{90}{11}%
925 \RangeCatcodeCheck{91}{91}{15}%
926 \RangeCatcodeCheck{92}{92}{0}%
927 \RangeCatcodeCheck{93}{96}{15}%
928 \RangeCatcodeCheck{97}{122}{11}%
929 \RangeCatcodeCheck{123}{255}{15}%
930 \RestoreCatcodes
931 }
932 \Test
933 \csname @@end\endcsname
934 \end
935 </test1>

```

3.2 Spacefactor

The space factor must be 1000 after a logo. If it is greater 1000 then the following space is a space after a sentence closing point. If the space factor is smaller 1000 then an immediate following dot is interpreted as abbreviation, not sentence closing point.

```

936 <*test-spacefactor>
937 \NeedsTeXFormat{LaTeX2e}
938 \documentclass{article}
939 \usepackage{hologo}[2011/04/21]
940 \usepackage{kvsetkeys}
941 \usepackage{qstest}
942 \IncludeTests{*}
943 \LogTests{log}{*}{*}
944 \begin{document}
945 \begin{qstest}{spacefactor}{spacefactor}
946 \newcommand*{\Test}[1]{%
947   \sbox0{%
948     \hologo{#1}%
949     \Expect*{1000 (#1)}*{\the\spacefactor\space{#1}}%
950   }%
951 }%
952 \makeatletter
953 \kv@parse@normalized{%
954   AmSLaTeX,%
955   AmSTeX,%
956   eTeX,%
957   iniTeX,%
958   LaTeX,%
959   LaTeX2e,%
960   LaTeX3,%
961   LaTeXe,%
962   LuaLaTeX,%
963   LuaTeX,%
964   pdfTeX,%
965   pdfLaTeX,%
966   plainTeX=,%
967   plainTeX={variant=space},%
968   plainTeX={variant=hyphen},%
969   plainTeX={variant=runtogether},%

```

```

970 TeX,%
971 virTeX,%
972 VTeX,%
973 XeLaTeX,%
974 XeTeX,%
975 }{%
976 \begingroup
977 \let\@logo=\kv@key
978 \ifx\kv@value\relax
979 \else
980 \expandafter\hologoLogoSetup\expandafter\@logo\expandafter{%
981 \kv@value
982 }%
983 \fi
984 \Test\@logo
985 \endgroup
986 \@gobbletwo
987 }
988 \end{qstest}
989 \end{document}
990 </test-spacefactor>

```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

[CTAN:macros/latex/contrib/oberdiek/hologo.dtx](#) The source file.

[CTAN:macros/latex/contrib/oberdiek/hologo.pdf](#) Documentation.

Bundle. All the packages of the bundle ‘oberdiek’ are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

[CTAN:install/macros/latex/contrib/oberdiek.tds.zip](#)

TDS refers to the standard “A Directory Structure for T_EX Files” ([CTAN:tds/tds.pdf](#)). Directories with `texmf` in their name are usually organized this way.

4.2 Bundle installation

Unpacking. Unpack the `oberdiek.tds.zip` in the TDS tree (also known as `texmf` tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

Script installation. Check the directory `TDS:scripts/oberdiek/` for scripts that need further installation steps. Package `attachfile2` comes with the Perl script `pdfatfi.pl` that should be installed in such a way that it can be called as `pdfatfi`. Example (linux):

```
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

4.3 Package installation

Unpacking. The `.dtx` file is a self-extracting docstrip archive. The files are extracted by running the `.dtx` through plain T_EX:

```
tex hologo.dtx
```

¹[ftp://ftp.ctan.org/tex-archive/](http://ftp.ctan.org/tex-archive/)

TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as `texmf` tree):

```

hologo.sty          → tex/generic/oberdiek/hologo.sty
hologo.pdf          → doc/latex/oberdiek/hologo.pdf
test/hologo-test1.tex → doc/latex/oberdiek/test/hologo-test1.tex
test/hologo-test-spacefactor.tex → doc/latex/oberdiek/test/hologo-test-spacefactor.tex
hologo.dtx          → source/latex/oberdiek/hologo.dtx

```

If you have a `docstrip.cfg` that configures and enables `docstrip`'s TDS installing feature, then some files can already be in the right place, see the documentation of `docstrip`.

4.4 Refresh file name databases

If your `TeX` distribution (`teTeX`, `mikTeX`, ...) relies on file name databases, you must refresh these. For example, `teTeX` users run `texhash` or `mktextlsr`.

4.5 Some details for the interested

Attached source. The PDF documentation on CTAN also includes the `.dtx` source file. It can be extracted by AcrobatReader 6 or higher. Another option is `pdftk`, e.g. unpack the file into the current directory:

```
pdftk hologo.pdf unpack_files output .
```

Unpacking with `LaTeX`. The `.dtx` chooses its action depending on the format:

plain `TeX`: Run `docstrip` and extract the files.

`LaTeX`: Generate the documentation.

If you insist on using `LaTeX` for `docstrip` (really, `docstrip` does not need `LaTeX`), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{hologo.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

Generating the documentation. You can use both the `.dtx` or the `.drv` to generate the documentation. The process can be configured by the configuration file `ltxdoc.cfg`. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with `pdfLaTeX`:

```

pdflatex hologo.dtx
makeindex -s gind.ist hologo.idx
pdflatex hologo.dtx
makeindex -s gind.ist hologo.idx
pdflatex hologo.dtx

```

5 History

[2010/04/08 v1.0]

- The first version.

[2010/04/16 v1.1]

- \Hologo added for support of logos at start of a sentence.
- \hologoSetup and \hologoLogoSetup added.
- Options break, hyphenbreak, spacebreak added.
- Variant support added by option variant.

[2010/04/24 v1.2]

- L^AT_EX3 added.
- V_TE_X added.

[2010/11/21 v1.3]

- iniT_EX, iniT_EX added.

[2011/03/25 v1.4]

- ConT_EXt with variants added.
- Option discretionarybreak added as refinement for option break.

[2011/04/21 v1.5]

- Wrong TDS directory for test files fixed.

6 Index

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