

# The `hologo` package

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## Abstract

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

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\*Please report any issues at <https://github.com/ho-tex/oberdiek/issues>

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# 1 Documentation

## 1.1 Logo macros

`\hologo {<name>}`

Macro `\hologo` sets the logo with name *<name>*. The following table shows the supported names.

name	variant	logo	since
(La)TeX		(L <sup>A</sup> )T <sub>E</sub> X	2011/10/01
AmSLaTeX		$\mathcal{A}\mathcal{M}\mathcal{S}$ -L <sup>A</sup> T <sub>E</sub> X	2010/04/16
AmSTeX		$\mathcal{A}\mathcal{M}\mathcal{S}$ -T <sub>E</sub> X	2010/04/16
biber		biber	2011/10/01
BibTeX		BibT <sub>E</sub> X	2011/10/01
BibTeX	sf	BibT <sub>E</sub> X	2011/10/01
BibTeX	sc	BibT <sub>E</sub> X	2011/10/01
BibTeX8		BibT <sub>E</sub> X8	2011/11/22
ConTeXt		ConT <sub>E</sub> Xt	2011/03/25
ConTeXt	narrow	ConT <sub>E</sub> Xt	2011/03/25
ConTeXt	simple	ConT <sub>E</sub> Xt	2011/03/25
emTeX		emT <sub>E</sub> X	2010/04/26
eTeX		$\varepsilon$ -T <sub>E</sub> X	2010/04/08
ExTeX		$\varepsilon_X$ T <sub>E</sub> X	2011/10/01
HanTheThanh		Hàn Thê Thành	2011/11/29
iniTeX		iniT <sub>E</sub> X	2011/10/01
KOMAScript		KOMA-Script	2011/10/01
La		L <sup>A</sup>	2010/05/08
LaTeX		L <sup>A</sup> T <sub>E</sub> X	2010/04/08
LaTeX2e		L <sup>A</sup> T <sub>E</sub> X 2 <sub><math>\varepsilon</math></sub>	2010/04/08
LaTeX3		L <sup>A</sup> T <sub>E</sub> X3	2010/04/24
LaTeXe		L <sup>A</sup> T <sub>E</sub> X 2 <sub><math>\varepsilon</math></sub>	2010/04/08
LaTeXML		L <sup>A</sup> T <sub>E</sub> XML	2011/11/22
LaTeXTeX		(L <sup>A</sup> )T <sub>E</sub> X	2011/10/01
LuaLaTeX		LuaL <sup>A</sup> T <sub>E</sub> X	2010/04/08
LuaTeX		LuaT <sub>E</sub> X	2010/04/08
LyX		L <sub>Y</sub> X	2011/10/01
METAFont		METAFont	2011/10/01
MetaFun		MetaFun	2011/10/01
METAPOST		METAPOST	2011/10/01
MetaPost		MetaPost	2011/10/01
MiKTeX		MiK <sub>T</sub> E <sub>X</sub>	2011/10/01
NTS		$\mathcal{N}\mathcal{T}\mathcal{S}$	2011/10/01
OzMF		OzMF	2011/10/01
OzMP		OzMP	2011/10/01
OzTeX		OzT <sub>E</sub> X	2011/10/01
OzTtH		OzTtH	2011/10/01
PCTeX		PCT <sub>E</sub> X	2011/10/01
pdfTeX		pdfT <sub>E</sub> X	2011/10/01
pdfLaTeX		pdfL <sup>A</sup> T <sub>E</sub> X	2011/10/01
PiC		P <sub>I</sub> C	2011/10/01

name	variant	logo	since
PiCTeX		PiCTeX	2011/10/01
plainTeX		plain TeX	2010/04/08
plainTeX	space	plain TeX	2010/04/16
plainTeX	hyphen	plain-TeX	2010/04/16
plainTeX	runtogether	plainTeX	2010/04/16
SageTeX		SageTeX	2011/11/22
SLiTeX		SLiTeX	2011/10/01
SLiTeX	lift	SLiTeX	2011/10/01
SLiTeX	narrow	SLiTeX	2011/10/01
SLiTeX	simple	SLiTeX	2011/10/01
SliTeX		SliTeX	2011/10/01
SliTeX	narrow	SliTeX	2011/10/01
SliTeX	simple	SliTeX	2011/10/01
SliTeX	lift	SliTeX	2011/10/01
teTeX		teTeX	2011/10/01
TeX		TeX	2010/04/08
TeX4ht		TeX4ht	2011/11/22
TTH		T <sub>T</sub> H	2011/11/22
virTeX		virTeX	2011/10/01
VTeX		VTeX	2010/04/24
Xe		X <sub>Ǝ</sub>	2010/04/08
XeLaTeX		X <sub>Ǝ</sub> LaTeX	2010/04/08
XeTeX		X <sub>Ǝ</sub> TeX	2010/04/08

`\Hologo {⟨name⟩}`

Macro `\Hologo` starts the logo `⟨name⟩` with an uppercase letter. As an exception small greek letters are not converted to uppercase. Examples, see  $\varepsilon$ -TeX and  $\varepsilon_X$ TeX.

## 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.
```

## 1.4 Driver options

Sometimes graphical operations are needed to construct some glyphs (e.g. `XqTeX`). If package `graphics` or package `pgf` are found, then the macros are taken from there. Otherwise the package defines its own operations and therefore needs the driver information. Many drivers are detected automatically (`pdfTeX`/`LuaTeX` in PDF mode, `XqTeX`, `VTEX`). These have precedence over a driver option. The driver can be given as package option or using `\hologoDriverSetup`. The following list contains the recognized driver options:

- `pdftex`, `luatex`
- `dvipdfm`, `dvipdfmx`
- `dvips`, `dvipsone`, `xdvi`
- `xetex`
- `vtex`

The left driver of a line is the driver name that is used internally. The following names are aliases for drivers that use the same method. Therefore the entry in the `.log` file for the used driver prints the internally used driver name.

**driverfallback:** This option expects a driver that is used, if the driver could not be detected automatically.

`\hologoDriverSetup {<driver option>}`

The driver can also be configured after package loading using `\hologoDriverSetup`, also the way for plain `TeX` to setup the driver.

## 1.5 Font setup

Some logos require a special font, but should also be usable by plain `TeX`. Therefore the package provides some ways to influence the font settings. The options below take font settings as values. Both font commands such as `\sffamily` and macros that take one argument like `\textsf` can be used.

`\hologoFontSetup {<key value list>}`

Macro `\hologoFontSetup` sets the fonts for all logos. Supported keys:

**general:** This font is used for all logos. The default is empty. That means no special font is used.

**bibsf:** This font is used for BibTeX with variant sf.

**rm:** This font is a serif font. It is used for  $\epsilon_X$ TeX.

**sc:** This font specifies a small caps font. It is used for BibTeX with variant sc.

**sf:** This font specifies a sans serif font. The default is `\sffamily`, then `\sf` is tried. Otherwise a warning is given. It is used by KOMA-Script.

**sy:** This is the font for math symbols (e.g. cmsy). It is used by  $\mathcal{A}\mathcal{M}\mathcal{S}$ ,  $\mathcal{N}\mathcal{T}\mathcal{S}$ ,  $\epsilon_X$ TeX.

**logo:** METAFONT and METAPOST are using that font. In LaTeX `\logofamily` is used and the definitions of package `mflogo` are used if the package is not loaded. Otherwise the `\tenlogo` is used and defined if it does not already exists.

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

Fonts can also be set for a logo or logo component separately, see the following list. The keys are the same as for `\hologoFontSetup`.

⟨logo⟩	keys	result
BibTeX	bibsf	BibTeX
BibTeX	sc	BibTeX
ExTeX	rm	$\epsilon_X$ TeX
SliTeX	rm	SLiTeX
AmS	sy	$\mathcal{A}\mathcal{M}\mathcal{S}$
ExTeX	sy	$\epsilon_X$ TeX
NTS	sy	$\mathcal{N}\mathcal{T}\mathcal{S}$
KOMAScript	sf	KOMA-Script
METAFONT	logo	METAFONT
METAPOST	logo	METAPOST
SliTeX	sc SLiTeX	

### 1.5.1 Font order

For all logos the font **general** is applied first. Example:

```
\hologoFontSetup{general=\color{red}}
```

will print red logos. Then if the font uses a special font **sf**, for example, the font is applied that is setup by `\hologoLogoFontSetup`. If this font is not setup, then the common font setup by `\hologoFontSetup` is used. Otherwise a warning is given, that there is no font configured.

## 1.6 Additional user macros

Usually a variant of a logo is configured by using `\hologoLogoSetup`, because it is bad style to mix different variants of the same logo in the same text. There the following macros are a convenience for testing.

<code>\hologoVariant {⟨name⟩} {⟨variant⟩}</code> <code>\HologoVariant {⟨name⟩} {⟨variant⟩}</code>
--

Logo  $\langle name \rangle$  is set using  $\langle variant \rangle$  that specifies explicitly which variant of the macro is used. If the argument is empty, then the default form of the logo is used (configurable by `\hologoLogoSetup`).

`\HologoVariant` is used if the logo is set in a context that needs an uppercase first letter (beginning of a sentence, ...).

<code>\hologoList</code> <code>\hologoEntry {⟨logo⟩} {⟨variant⟩} {⟨since⟩}</code>
--

Macro `\hologoList` contains all logos that are provided by the package including variants. The list consists of calls of `\hologoEntry` with three arguments starting with the logo name  $\langle logo \rangle$  and its variant  $\langle variant \rangle$ . An empty variant means the current default. Argument  $\langle since \rangle$  specifies with version of the package `hologo` is needed to get the logo. If the logo is fixed, then the date gets updated. Therefore the date  $\langle since \rangle$  is not exactly the date of the first introduction, but rather the date of the latest fix.

Before `\hologoList` can be used, macro `\hologoEntry` needs a definition. The example file in section 1.8 shows applications of `\hologoList`.

## 1.7 Supported contexts

Macros `\hologo` and friends support special contexts:

- L<sup>A</sup>T<sub>E</sub>X's protection mechanism.
- Bookmarks of package `hyperref`.
- Package `tex4ht`.
- The macros can be used inside `\csname` constructs, if `\ifincsname` is available (pdfT<sub>E</sub>X, X<sub>Y</sub>T<sub>E</sub>X, LuaT<sub>E</sub>X).

## 1.8 Example

The following example prints the logos in different fonts.

```

1 ⟨*example⟩
2 %<<verbatim
3 \NeedsTeXFormat{LaTeX2e}
4 \documentclass[a4paper]{article}
5 \usepackage[
6   hmargin=20mm,
7   vmargin=20mm,
8 ]{geometry}
9 \pagestyle{empty}
10 \usepackage{hologo}[2017/05/01]
11 \usepackage{longtable}
12 \usepackage{array}
13 \setlength{\extrarowheight}{2pt}
14 \usepackage[T1]{fontenc}
15 \usepackage{lmodern}
16 \usepackage{pdfscape}
17 \usepackage[
18   pdfencoding=auto,
19 ]{hyperref}
20 \hypersetup{
21   pdfauthor={Heiko Oberdiek},
22   pdftitle={Example for package `hologo'},
23   pdfsubject={Logos with fonts lmr, lmss, qtm, qpl, qhv},

```

```

24 }
25 \usepackage{bookmark}
26
27 % Print the logo list on the console
28
29 \begin{group}
30 \typeout{}%
31 \typeout{*** Begin of logo list ***}%
32 \newcommand*{\hologoEntry}[3]{%
33 \typeout{#1 \ifx\#2\\\else(#2) \fi[#3]}%
34 }%
35 \hologoList
36 \typeout{*** End of logo list ***}%
37 \typeout{}%
38 \end{group}
39
40 \begin{document}
41 \begin{landscape}
42
43 \section{Example file for package `hologo'}
44
45 % Table for font names
46
47 \begin{longtable}{>{\bfseries}ll}
48 \textbf{font} & \textbf{Font name}\\
49 \hline
50 lmr & Latin Modern Roman\\
51 lmss & Latin Modern Sans\\
52 qtm & \TeX Gyre Termes\\
53 qhv & \TeX Gyre Heros\\
54 qpl & \TeX Gyre Pagella\\
55 \end{longtable}
56
57 % Logo list with logos in different fonts
58
59 \begin{group}
60 \newcommand*{\SetVariant}[2]{%
61 \ifx\#2\\%
62 \else
63 \hologoLogoSetup{#1}{variant=#2}%
64 \fi
65 }%
66 \newcommand*{\hologoEntry}[3]{%
67 \SetVariant{#1}{#2}%
68 \raisebox{1em}[0pt][0pt]{\hypertarget{#1@#2}{}}%
69 \bookmark[%
70 dest={#1@#2},%
71 ]{%
72 #1\ifx\#2\\\else\space(#2)\fi: \Hologo{#1}, \hologo{#1} %
73 [Unicode]%
74 }%
75 \hypersetup{unicode=false}%
76 \bookmark[%
77 dest={#1@#2},%
78 ]{%
79 #1\ifx\#2\\\else\space(#2)\fi: \Hologo{#1}, \hologo{#1} %
80 [PDFDocEncoding]%
81 }%
82 \texttt{#1}%
83 &%
84 \texttt{#2}%
85 &%

```



```

86 \Hologo{#1}%
87 &%
88 \SetVariant{#1}{#2}%
89 \hologo{#1}%
90 &%
91 \SetVariant{#1}{#2}%
92 \fontfamily{qtm}\selectfont
93 \hologo{#1}%
94 &%
95 \SetVariant{#1}{#2}%
96 \fontfamily{qpl}\selectfont
97 \hologo{#1}%
98 &%
99 \SetVariant{#1}{#2}%
100 \textsf{\hologo{#1}}%
101 &%
102 \SetVariant{#1}{#2}%
103 \fontfamily{qhv}\selectfont
104 \hologo{#1}%
105 \tabularnewline
106 }%
107 \begin{longtable}{lllllll}%
108 \textbf{\textit{logo}} & \textbf{\textit{variant}} & & & & & \\
109 \texttt{\string\Hologo} & & & & & & \\
110 \textbf{lmr} & \textbf{qtm} & \textbf{qpl} & & & & \\
111 \textbf{lms} & \textbf{qhv} & & & & & \\
112 \tabularnewline
113 \hline
114 \endhead
115 \hologoList
116 \end{longtable}%
117 \endgroup
118
119 \end{landscape}
120 \end{document}
121 %verbatim
122 \end{example}

```

## 2 Implementation

```

123 \package

```

Reload check, especially if the package is not used with L<sup>A</sup>T<sub>E</sub>X.

```

124 \begingroup\catcode61\catcode48\catcode32=10\relax%
125 \catcode13=5 % ^~M
126 \endlinechar=13 %
127 \catcode35=6 % #
128 \catcode39=12 % '
129 \catcode44=12 % ,
130 \catcode45=12 % -
131 \catcode46=12 % .
132 \catcode58=12 % :
133 \catcode64=11 % @
134 \catcode123=1 % {
135 \catcode125=2 % }
136 \expandafter\let\expandafter\x\csname ver@hologo.sty\endcsname
137 \ifx\x\relax % plain-TeX, first loading
138 \else
139 \def\empty{}%
140 \ifx\x\empty % LaTeX, first loading,
141 % variable is initialized, but \ProvidesPackage not yet seen
142 \else

```

```

143 \expandafter\ifx\csname PackageInfo\endcsname\relax
144 \def\x#1#2{%
145 \immediate\write-1{Package #1 Info: #2.}%
146 }%
147 \else
148 \def\x#1#2{\PackageInfo{#1}{#2, stopped}}}%
149 \fi
150 \x{hologo}{The package is already loaded}%
151 \aftergroup\endinput
152 \fi
153 \fi
154 \endgroup%

```

Package identification:

```

155 \begingroup\catcode61\catcode48\catcode32=10\relax%
156 \catcode13=5 % ^^M
157 \endlinechar=13 %
158 \catcode35=6 % #
159 \catcode39=12 % '
160 \catcode40=12 % (
161 \catcode41=12 % )
162 \catcode44=12 % ,
163 \catcode45=12 % -
164 \catcode46=12 % .
165 \catcode47=12 % /
166 \catcode58=12 % :
167 \catcode64=11 % @
168 \catcode91=12 % [
169 \catcode93=12 % ]
170 \catcode123=1 % {
171 \catcode125=2 % }
172 \expandafter\ifx\csname ProvidesPackage\endcsname\relax
173 \def\x#1#2#3[#4]{\endgroup
174 \immediate\write-1{Package: #3 #4}%
175 \xdef#1{#4}%
176 }%
177 \else
178 \def\x#1#2[#3]{\endgroup
179 #2[#{#3}]%
180 \ifx#1\@undefined
181 \xdef#1{#3}%
182 \fi
183 \ifx#1\relax
184 \xdef#1{#3}%
185 \fi
186 }%
187 \fi
188 \expandafter\x\csname ver@hologo.sty\endcsname
189 \ProvidesPackage{hologo}%
190 [2017/05/01 v1.13 A logo collection with bookmark support (HO)]%
191 \begingroup\catcode61\catcode48\catcode32=10\relax%
192 \catcode13=5 % ^^M
193 \endlinechar=13 %
194 \catcode123=1 % {
195 \catcode125=2 % }
196 \catcode64=11 % @
197 \def\x{\endgroup
198 \expandafter\edef\csname HOLOGO@AtEnd\endcsname{%
199 \endlinechar=\the\endlinechar\relax
200 \catcode13=\the\catcode13\relax
201 \catcode32=\the\catcode32\relax
202 \catcode35=\the\catcode35\relax
203 \catcode61=\the\catcode61\relax

```

```

204 \catcode64=\the\catcode64\relax
205 \catcode123=\the\catcode123\relax
206 \catcode125=\the\catcode125\relax
207 }%
208 }%
209 \x\catcode61\catcode48\catcode32=10\relax%
210 \catcode13=5 % ^^M
211 \endlinechar=13 %
212 \catcode35=6 % #
213 \catcode64=11 % @
214 \catcode123=1 % {
215 \catcode125=2 % }
216 \def\TMP@EnsureCode#1#2{%
217 \edef\HOLOGO@AtEnd{%
218 \HOLOGO@AtEnd
219 \catcode#1=\the\catcode#1\relax
220 }%
221 \catcode#1=#2\relax
222 }
223 \TMP@EnsureCode{10}{12}% ^^J
224 \TMP@EnsureCode{33}{12}% !
225 \TMP@EnsureCode{34}{12}% "
226 \TMP@EnsureCode{36}{3}% $
227 \TMP@EnsureCode{38}{4}% &
228 \TMP@EnsureCode{39}{12}% '
229 \TMP@EnsureCode{40}{12}% (
230 \TMP@EnsureCode{41}{12}% )
231 \TMP@EnsureCode{42}{12}% *
232 \TMP@EnsureCode{43}{12}% +
233 \TMP@EnsureCode{44}{12}% ,
234 \TMP@EnsureCode{45}{12}% -
235 \TMP@EnsureCode{46}{12}% .
236 \TMP@EnsureCode{47}{12}% /
237 \TMP@EnsureCode{58}{12}% :
238 \TMP@EnsureCode{59}{12}% ;
239 \TMP@EnsureCode{60}{12}% <
240 \TMP@EnsureCode{62}{12}% >
241 \TMP@EnsureCode{63}{12}% ?
242 \TMP@EnsureCode{91}{12}% [
243 \TMP@EnsureCode{93}{12}% ]
244 \TMP@EnsureCode{94}{7}% ^ (superscript)
245 \TMP@EnsureCode{95}{8}% _ (subscript)
246 \TMP@EnsureCode{96}{12}% `
247 \TMP@EnsureCode{124}{12}% |
248 \edef\HOLOGO@AtEnd{%
249 \HOLOGO@AtEnd
250 \escapechar\the\escapechar\relax
251 \noexpand\endinput
252 }
253 \escapechar=92 %

```

## 2.1 Logo list

\hologoList

```

254 \def\hologoList{%
255 \hologoEntry{(La)TeX}{2011/10/01}%
256 \hologoEntry{AmSLaTeX}{2010/04/16}%
257 \hologoEntry{AmSTeX}{2010/04/16}%
258 \hologoEntry{biber}{2011/10/01}%
259 \hologoEntry{BibTeX}{2011/10/01}%
260 \hologoEntry{BibTeX}{sf}{2011/10/01}%
261 \hologoEntry{BibTeX}{sc}{2011/10/01}%
262 \hologoEntry{BibTeX8}{2011/11/22}%

```

```

263 \hologoEntry{ConTeXt}{-}{2011/03/25}%
264 \hologoEntry{ConTeXt}{narrow}{2011/03/25}%
265 \hologoEntry{ConTeXt}{simple}{2011/03/25}%
266 \hologoEntry{emTeX}{-}{2010/04/26}%
267 \hologoEntry{eTeX}{-}{2010/04/08}%
268 \hologoEntry{ExTeX}{-}{2011/10/01}%
269 \hologoEntry{HanTheThanh}{-}{2011/11/29}%
270 \hologoEntry{iniTeX}{-}{2011/10/01}%
271 \hologoEntry{KOMAScript}{-}{2011/10/01}%
272 \hologoEntry{La}{-}{2010/05/08}%
273 \hologoEntry{LaTeX}{-}{2010/04/08}%
274 \hologoEntry{LaTeX2e}{-}{2010/04/08}%
275 \hologoEntry{LaTeX3}{-}{2010/04/24}%
276 \hologoEntry{LaTeXe}{-}{2010/04/08}%
277 \hologoEntry{LaTeXML}{-}{2011/11/22}%
278 \hologoEntry{LaTeXTeX}{-}{2011/10/01}%
279 \hologoEntry{LuaLaTeX}{-}{2010/04/08}%
280 \hologoEntry{LuaTeX}{-}{2010/04/08}%
281 \hologoEntry{LyX}{-}{2011/10/01}%
282 \hologoEntry{METAFont}{-}{2011/10/01}%
283 \hologoEntry{MetaFun}{-}{2011/10/01}%
284 \hologoEntry{METAPOST}{-}{2011/10/01}%
285 \hologoEntry{MetaPost}{-}{2011/10/01}%
286 \hologoEntry{MiKTeX}{-}{2011/10/01}%
287 \hologoEntry{NTS}{-}{2011/10/01}%
288 \hologoEntry{OzMF}{-}{2011/10/01}%
289 \hologoEntry{OzMP}{-}{2011/10/01}%
290 \hologoEntry{OzTeX}{-}{2011/10/01}%
291 \hologoEntry{OzTtH}{-}{2011/10/01}%
292 \hologoEntry{PCTeX}{-}{2011/10/01}%
293 \hologoEntry{pdfTeX}{-}{2011/10/01}%
294 \hologoEntry{pdfLaTeX}{-}{2011/10/01}%
295 \hologoEntry{PiC}{-}{2011/10/01}%
296 \hologoEntry{PiCTeX}{-}{2011/10/01}%
297 \hologoEntry{plainTeX}{-}{2010/04/08}%
298 \hologoEntry{plainTeX}{space}{2010/04/16}%
299 \hologoEntry{plainTeX}{hyphen}{2010/04/16}%
300 \hologoEntry{plainTeX}{runtogether}{2010/04/16}%
301 \hologoEntry{SageTeX}{-}{2011/11/22}%
302 \hologoEntry{SLiTeX}{-}{2011/10/01}%
303 \hologoEntry{SLiTeX}{lift}{2011/10/01}%
304 \hologoEntry{SLiTeX}{narrow}{2011/10/01}%
305 \hologoEntry{SLiTeX}{simple}{2011/10/01}%
306 \hologoEntry{SliTeX}{-}{2011/10/01}%
307 \hologoEntry{SliTeX}{narrow}{2011/10/01}%
308 \hologoEntry{SliTeX}{simple}{2011/10/01}%
309 \hologoEntry{SliTeX}{lift}{2011/10/01}%
310 \hologoEntry{teTeX}{-}{2011/10/01}%
311 \hologoEntry{TeX}{-}{2010/04/08}%
312 \hologoEntry{TeX4ht}{-}{2011/11/22}%
313 \hologoEntry{TTH}{-}{2011/11/22}%
314 \hologoEntry{virTeX}{-}{2011/10/01}%
315 \hologoEntry{VTeX}{-}{2010/04/24}%
316 \hologoEntry{Xe}{-}{2010/04/08}%
317 \hologoEntry{XeLaTeX}{-}{2010/04/08}%
318 \hologoEntry{XeTeX}{-}{2010/04/08}%
319 }

```

## 2.2 Load resources

```

320 \begingroup\expandafter\expandafter\expandafter\endgroup
321 \expandafter\ifx\csname RequirePackage\endcsname\relax

```

```

322 \def\TMP@RequirePackage#1[#2]{%
323 \begingroup\expandafter\expandafter\expandafter\endgroup
324 \expandafter\ifx\csname ver@#1.sty\endcsname\relax
325 \input #1.sty\relax
326 \fi
327 }%
328 \TMP@RequirePackage{ltxcmds}[2011/02/04]%
329 \TMP@RequirePackage{infwarerr}[2010/04/08]%
330 \TMP@RequirePackage{kvsetkeys}[2010/03/01]%
331 \TMP@RequirePackage{kvdefinekeys}[2010/03/01]%
332 \TMP@RequirePackage{pdftexcmds}[2010/04/01]%
333 \TMP@RequirePackage{ifpdf}[2010/01/28]%
334 \TMP@RequirePackage{ifluatex}[2010/03/01]%
335 \ltx@ifundefined{newif}{%
336 \expandafter\let\csname newif\endcsname\ltx@newif
337 }{}%
338 \TMP@RequirePackage{ifxetex}[2009/01/23]%
339 \TMP@RequirePackage{ifvtex}[2010/03/01]%
340 \else
341 \RequirePackage{ltxcmds}[2011/02/04]%
342 \RequirePackage{infwarerr}[2010/04/08]%
343 \RequirePackage{kvsetkeys}[2010/03/01]%
344 \RequirePackage{kvdefinekeys}[2010/03/01]%
345 \RequirePackage{pdftexcmds}[2010/04/01]%
346 \RequirePackage{ifpdf}[2010/01/28]%
347 \RequirePackage{ifluatex}[2010/03/01]%
348 \RequirePackage{ifxetex}[2009/01/23]%
349 \RequirePackage{ifvtex}[2010/03/01]%
350 \fi

```

\HOLOGO@ifDefined

```

351 \def\HOLOGO@ifExists#1{%
352 \ifx\@undefined#1%
353 \expandafter\ltx@secondoftwo
354 \else
355 \ifx\relax#1%
356 \expandafter\ltx@secondoftwo
357 \else
358 \expandafter\expandafter\expandafter\ltx@firstoftwo
359 \fi
360 \fi
361 }

```

## 2.3 Setup macros

\hologoSetup

```

362 \def\hologoSetup{%
363 \let\HOLOGO@name\relax
364 \HOLOGO@Setup
365 }

```

\hologoLogoSetup

```

366 \def\hologoLogoSetup#1{%
367 \edef\HOLOGO@name{#1}%
368 \ltx@ifundefined{HoLogo@\HOLOGO@name}{%
369 \@PackageError{hologo}{%
370 Unknown logo `~\HOLOGO@name'%
371 }~\@ehc
372 \ltx@gobble
373 }{%
374 \HOLOGO@Setup
375 }%
376 }

```

\HOLOGO@Setup

```
377 \def\HOLOGO@Setup{%  
378   \kvsetkeys{HoLogo}%  
379 }
```

## 2.4 Options

\HOLOGO@DeclareBoolOption

```
380 \def\HOLOGO@DeclareBoolOption#1{%  
381   \expandafter\chardef\csname HOLOGOOPT@#1\endcsname\ltx@zero  
382   \kv@define@key{HoLogo}{#1}[true]{%  
383     \def\HOLOGO@temp{##1}%  
384     \ifx\HOLOGO@temp\HOLOGO@true  
385       \ifx\HOLOGO@name\relax  
386         \expandafter\chardef\csname HOLOGOOPT@#1\endcsname=\ltx@one  
387       \else  
388         \expandafter\chardef\csname  
389           HoLogoOpt@#1@\HOLOGO@name\endcsname\ltx@one  
390       \fi  
391       \HOLOGO@SetBreakAll{#1}%  
392     \else  
393       \ifx\HOLOGO@temp\HOLOGO@false  
394         \ifx\HOLOGO@name\relax  
395           \expandafter\chardef\csname HOLOGOOPT@#1\endcsname=\ltx@zero  
396         \else  
397           \expandafter\chardef\csname  
398             HoLogoOpt@#1@\HOLOGO@name\endcsname=\ltx@zero  
399         \fi  
400         \HOLOGO@SetBreakAll{#1}%  
401       \else  
402         \@PackageError{hologo}{%  
403           Unknown value `##1' for boolean option `#1'.\MessageBreak  
404           Known values are `true' and `false'%  
405         }\@ehc  
406       \fi  
407     \fi  
408   }%  
409 }
```

\HOLOGO@SetBreakAll

```
410 \def\HOLOGO@SetBreakAll#1{%  
411   \def\HOLOGO@temp{#1}%  
412   \ifx\HOLOGO@temp\HOLOGO@break  
413     \ifx\HOLOGO@name\relax  
414       \chardef\HOLOGOOPT@hyphenbreak=\HOLOGOOPT@break  
415       \chardef\HOLOGOOPT@spacebreak=\HOLOGOOPT@break  
416       \chardef\HOLOGOOPT@discretionarybreak=\HOLOGOOPT@break  
417     \else  
418       \expandafter\chardef  
419         \csname HoLogoOpt@hyphenbreak@\HOLOGO@name\endcsname=%  
420       \csname HoLogoOpt@break@\HOLOGO@name\endcsname  
421       \expandafter\chardef  
422         \csname HoLogoOpt@spacebreak@\HOLOGO@name\endcsname=%  
423       \csname HoLogoOpt@break@\HOLOGO@name\endcsname  
424       \expandafter\chardef  
425         \csname HoLogoOpt@discretionarybreak@\HOLOGO@name  
426         \endcsname=%  
427       \csname HoLogoOpt@break@\HOLOGO@name\endcsname  
428     \fi  
429   \fi  
430 }
```

```

\HOLGO@true
431 \def\HOLGO@true{true}

\HOLGO@false
432 \def\HOLGO@false{false}

\HOLGO@break
433 \def\HOLGO@break{break}

434 \HOLGO@DeclareBoolOption{break}
435 \HOLGO@DeclareBoolOption{hyphenbreak}
436 \HOLGO@DeclareBoolOption{spacebreak}
437 \HOLGO@DeclareBoolOption{discretionarybreak}

438 \kv@define@key{HoLogo}{variant}{%
439   \ifx\HOLGO@name\relax
440     \@PackageError{hologo}{%
441       Option `variant' is not available in \string\hologoSetup,%
442       \MessageBreak
443       Use \string\hologoLogoSetup\space instead%
444     }\@ehc
445   }else
446     \edef\HOLGO@temp{#1}%
447     \ifx\HOLGO@temp\ltx@empty
448       \expandafter
449       \let\csname HoLogoOpt@variant@\HOLGO@name\endcsname\@undefined
450     }else
451       \ltx@ifundefined{HoLogo@\HOLGO@name @\HOLGO@temp}{%
452         \@PackageError{hologo}{%
453           Unknown variant ``\HOLGO@temp' of logo ``\HOLGO@name'%
454         }\@ehc
455       }{%
456         \expandafter
457         \let\csname HoLogoOpt@variant@\HOLGO@name\endcsname
458           \HOLGO@temp
459       }%
460     \fi
461   \fi
462 }

\HOLGO@Variant
463 \def\HOLGO@Variant#1{%
464   #1%
465   \ltx@ifundefined{HoLogoOpt@variant@#1}{%
466     }{%
467       @\csname HoLogoOpt@variant@#1\endcsname
468     }%
469 }

```

## 2.5 Break/no-break support

```

\HOLGO@space
470 \def\HOLGO@space{%
471   \ltx@ifundefined{HoLogoOpt@spacebreak@\HOLGO@name}{%
472     \ltx@ifundefined{HoLogoOpt@break@\HOLGO@name}{%
473       \chardef\HOLGO@temp=\HOLGOOPT@spacebreak
474     }{%
475       \chardef\HOLGO@temp=%
476       \csname HoLogoOpt@break@\HOLGO@name\endcsname
477     }%
478   }{%
479     \chardef\HOLGO@temp=%

```

```

480 \csname HoLogoOpt@spacebreak@\HOLOGO@name\endcsname
481 }%
482 \ifcase\HOLOGO@temp
483 \penalty10000 %
484 \fi
485 \ltx@space
486 }

```

\HOLOGO@hyphen

```

487 \def\HOLOGO@hyphen{%
488 \ltx@ifundefined{HoLogoOpt@hyphenbreak@\HOLOGO@name}{%
489 \ltx@ifundefined{HoLogoOpt@break@\HOLOGO@name}{%
490 \chardef\HOLOGO@temp=\HOLOGOOPT@hyphenbreak
491 }{%
492 \chardef\HOLOGO@temp=%
493 \csname HoLogoOpt@break@\HOLOGO@name\endcsname
494 }%
495 }{%
496 \chardef\HOLOGO@temp=%
497 \csname HoLogoOpt@hyphenbreak@\HOLOGO@name\endcsname
498 }%
499 \ifcase\HOLOGO@temp
500 \ltx@mbox{-}%
501 \else
502 -%
503 \fi
504 }

```

\HOLOGO@discretionary

```

505 \def\HOLOGO@discretionary{%
506 \ltx@ifundefined{HoLogoOpt@discretionarybreak@\HOLOGO@name}{%
507 \ltx@ifundefined{HoLogoOpt@break@\HOLOGO@name}{%
508 \chardef\HOLOGO@temp=\HOLOGOOPT@discretionarybreak
509 }{%
510 \chardef\HOLOGO@temp=%
511 \csname HoLogoOpt@break@\HOLOGO@name\endcsname
512 }%
513 }{%
514 \chardef\HOLOGO@temp=%
515 \csname HoLogoOpt@discretionarybreak@\HOLOGO@name\endcsname
516 }%
517 \ifcase\HOLOGO@temp
518 \else
519 \-%
520 \fi
521 }

```

\HOLOGO@mbox

```

522 \def\HOLOGO@mbox#1{%
523 \ltx@ifundefined{HoLogoOpt@break@\HOLOGO@name}{%
524 \chardef\HOLOGO@temp=\HOLOGOOPT@hyphenbreak
525 }{%
526 \chardef\HOLOGO@temp=%
527 \csname HoLogoOpt@break@\HOLOGO@name\endcsname
528 }%
529 \ifcase\HOLOGO@temp
530 \ltx@mbox{#1}%
531 \else
532 #1%
533 \fi
534 }

```



## 2.6 Font support

```

#1: logo name
\HoLogoFont@font #2: font short name
#3: text

535 \def\HoLogoFont@font#1#2#3{%
536 \begingroup
537 \ltx@ifundefined{HoLogoFont@logo@#1.#2}{%
538 \ltx@ifundefined{HoLogoFont@font@#2}{%
539 \@PackageWarning{hologo}{%
540 Missing font `#2' for logo `#1'%
541 }%
542 #3%
543 }{%
544 \csname HoLogoFont@font@#2\endcsname{#3}%
545 }%
546 }{%
547 \csname HoLogoFont@logo@#1.#2\endcsname{#3}%
548 }%
549 \endgroup
550 }

\HoLogoFont@Def

551 \def\HoLogoFont@Def#1{%
552 \expandafter\def\csname HoLogoFont@font@#1\endcsname
553 }

\HoLogoFont@LogoDef

554 \def\HoLogoFont@LogoDef#1#2{%
555 \expandafter\def\csname HoLogoFont@logo@#1.#2\endcsname
556 }

```

### 2.6.1 Font defaults

```

\HoLogoFont@font@general

557 \HoLogoFont@Def{general}{}%

\HoLogoFont@font@rm

558 \ltx@ifundefined{rmfamily}{}%
559 \ltx@ifundefined{rm}{}%
560 }{%
561 \HoLogoFont@Def{rm}{\rm}%
562 }%
563 }{%
564 \HoLogoFont@Def{rm}{\rmfamily}%
565 }

\HoLogoFont@font@sf

566 \ltx@ifundefined{sffamily}{%
567 \ltx@ifundefined{sf}{%
568 }{%
569 \HoLogoFont@Def{sf}{\sf}%
570 }%
571 }{%
572 \HoLogoFont@Def{sf}{\sffamily}%
573 }

\HoLogoFont@font@bbsf In case of plain TEX the original small caps variant is used as default. In LATEX
the definition of package dtklogos [2] is used.

```

```

\DeclareRobustCommand{\BibTeX}{%
  B%
  \kern-.05em%
  \hbox{%
    $m@th$% %% force math size calculations
    \csname S@f@size\endcsname
    \fontsize\sf@size\z@
    \math@fontsfalse
    \selectfont
    I%
    \kern-.025em%
    B
  }%
  \kern-.08em%
  \-%
  \TeX
}

574 \ltx@ifundefined{selectfont}{%
575   \ltx@ifundefined{tensc}{%
576     \font\tensc=cmcscl0\relax
577   }{}%
578   \HoLogoFont@Def{bbsf}{\tensc}%
579 }{%
580   \HoLogoFont@Def{bbsf}{%
581     $\mathsurround=0pt$%
582     \csname S@f@size\endcsname
583     \fontsize\sf@size{0pt}%
584     \math@fontsfalse
585     \selectfont
586   }%
587 }

\HoLogoFont@font@sc

588 \ltx@ifundefined{scshape}{%
589   \ltx@ifundefined{tensc}{%
590     \font\tensc=cmcscl0\relax
591   }{}%
592   \HoLogoFont@Def{sc}{\tensc}%
593 }{%
594   \HoLogoFont@Def{sc}{\scshape}%
595 }

\HoLogoFont@font@sy

596 \ltx@ifundefined{usefont}{%
597   \ltx@ifundefined{tensy}{%
598     }{}%
599     \HoLogoFont@Def{sy}{\tensy}%
600   }%
601 }{%
602   \HoLogoFont@Def{sy}{%
603     \usefont{OMS}{cmsy}{m}{n}%
604   }%
605 }

\HoLogoFont@font@logo

606 \begingroup
607   \def\x{LaTeX2e}%
608 \expandafter\endgroup
609 \ifx\fmtname\x
610   \ltx@ifundefined{logofamily}{%
611     \DeclareRobustCommand\logofamily{%
612       \not@math@alphabet\logofamily\relax

```

```

613 \fontencoding{U}%
614 \fontfamily{logo}%
615 \selectfont
616 }%
617 }{}%
618 \ltx@ifundefined{logofamily}{%
619 }{%
620 \HoLogoFont@Def{logo}{\logofamily}%
621 }%
622 \else
623 \ltx@ifundefined{tenlogo}{%
624 \font\tenlogo=logo10\relax
625 }{}%
626 \HoLogoFont@Def{logo}{\tenlogo}%
627 \fi

```

### 2.6.2 Font setup

\hologoFontSetup

```

628 \def\hologoFontSetup{%
629 \let\HOLOGO@name\relax
630 \HOLOGO@FontSetup
631 }

```

\hologoLogoFontSetup

```

632 \def\hologoLogoFontSetup#1{%
633 \edef\HOLOGO@name{#1}%
634 \ltx@ifundefined{HoLogo@\HOLOGO@name}{%
635 \@PackageError{hologo}{%
636 Unknown logo '\HOLOGO@name'%
637 }\@ehc
638 \ltx@gobble
639 }{%
640 \HOLOGO@FontSetup
641 }%
642 }

```

\HOLOGO@FontSetup

```

643 \def\HOLOGO@FontSetup{%
644 \kvsetkeys{HoLogoFont}%
645 }

646 \def\HOLOGO@temp#1{%
647 \kv@define@key{HoLogoFont}{#1}{%
648 \ifx\HOLOGO@name\relax
649 \HoLogoFont@Def{#1}{##1}%
650 \else
651 \HoLogoFont@LogoDef\HOLOGO@name{#1}{##1}%
652 \fi
653 }%
654 }
655 \HOLOGO@temp{general}
656 \HOLOGO@temp{sf}

```

## 2.7 Generic logo commands

```

657 \HOLOGO@ifexists\hologo{%
658 \@PackageError{hologo}{%
659 \string\hologo\ltx@space is already defined.\MessageBreak
660 Package loading is aborted%
661 }\@ehc
662 \HOLOGO@AtEnd

```

```

663 }%
664 \HOLOGO@IfExists\hologoRobust{%
665   \@PackageError{hologo}{%
666     \string\hologoRobust\ltx@space is already defined.\MessageBreak
667     Package loading is aborted%
668   }\@ehc
669 \HOLOGO@AtEnd
670 }%

```

### 2.7.1 \hologo and friends

```

671 \ifluatex
672   \expandafter\ltx@firstofone
673 \else
674   \expandafter\ltx@gobble
675 \fi
676 {%
677   \ltx@ifundefined{ifincsname}{%
678     \ifnum\luatexversion<36 %
679       \expandafter\ltx@gobble
680     \else
681       \expandafter\ltx@firstofone
682     \fi
683   {%
684     \begingroup
685     \ifcase0%
686       \directlua{%
687         if tex.enableprimitives then %
688           tex.enableprimitives('HOLOGO@', {'ifincsname'})%
689         else %
690           tex.print('1')%
691         end%
692       }%
693     \ifx\HOLOGO@ifincsname\@undefined 1\fi%
694     \relax
695     \expandafter\ltx@firstofone
696   \else
697     \endgroup
698     \expandafter\ltx@gobble
699   \fi
700   {%
701     \global\let\ifincsname\HOLOGO@ifincsname
702   }%
703   \HOLOGO@temp
704 }%
705 }{%}%
706 }

707 \ltx@ifundefined{ifincsname}{%
708   \catcode`\$=14 %
709 }{%%
710   \catcode`\$=9 %
711 }

\hologo

712 \def\hologo#1{%
713   \$ \ifincsname
714   \$ \ltx@ifundefined{HoLogoCs@\HOLOGO@Variant{#1}}{%
715     \$ #1%
716   }{%
717     \$ \csname HoLogoCs@\HOLOGO@Variant{#1}\endcsname\ltx@firstoftwo
718   }%
719   \$ \else
720     \HOLOGO@IfExists\texorpdfstring\texorpdfstring\ltx@firstoftwo

```

```

721  {%
722    \hologoRobust{#1}%
723  }{%
724    \ltx@ifundefined{HoLogoBkm@\HOLOGO@Variant{#1}}{%
725      \ltx@ifundefined{HoLogo@#1}{?#1?}{#1}%
726    }{%
727      \csname HoLogoBkm@\HOLOGO@Variant{#1}\endcsname
728      \ltx@firstoftwo
729    }%
730  }%
731 $ \fi
732 }

```

\Hologo

```

733 \def\Hologo#1{%
734 $ \ifcsname
735 $ \ltx@ifundefined{HoLogoCs@\HOLOGO@Variant{#1}}{%
736 $ #1%
737 $ }{%
738 $ \csname HoLogoCs@\HOLOGO@Variant{#1}\endcsname\ltx@secondoftwo
739 $ }%
740 $ \else
741 \HOLOGO@IfExists\texorpdfstring\texorpdfstring\ltx@firstoftwo
742 {%
743 \HologoRobust{#1}%
744 }{%
745 \ltx@ifundefined{HoLogoBkm@\HOLOGO@Variant{#1}}{%
746 \ltx@ifundefined{HoLogo@#1}{?#1?}{#1}%
747 }{%
748 \csname HoLogoBkm@\HOLOGO@Variant{#1}\endcsname
749 \ltx@secondoftwo
750 }%
751 }%
752 $ \fi
753 }

```

\hologoVariant

```

754 \def\hologoVariant#1#2{%
755 \ifx\relax#2\relax
756 \hologo{#1}%
757 \else
758 $ \ifcsname
759 $ \ltx@ifundefined{HoLogoCs@#1@#2}{%
760 $ #1%
761 $ }{%
762 $ \csname HoLogoCs@#1@#2\endcsname\ltx@firstoftwo
763 $ }%
764 $ \else
765 \HOLOGO@IfExists\texorpdfstring\texorpdfstring\ltx@firstoftwo
766 {%
767 \hologoVariantRobust{#1}{#2}%
768 }{%
769 \ltx@ifundefined{HoLogoBkm@#1@#2}{%
770 \ltx@ifundefined{HoLogo@#1}{?#1?}{#1}%
771 }{%
772 \csname HoLogoBkm@#1@#2\endcsname
773 \ltx@firstoftwo
774 }%
775 }%
776 $ \fi
777 \fi
778 }

```

\HologoVariant

```
779 \def\HologoVariant#1#2{%
780   \ifx\relax#2\relax
781     \Hologo{#1}%
782   \else
783     $ \ifcscname
784     $ \ltx@ifundefined{HoLogoCs@#1@#2}{%
785     $   #1%
786     $ }{%
787     $   \cscname HoLogoCs@#1@#2\endcscname\ltx@secondoftwo
788     $ }%
789     $ \else
790     $ \Hologo@IfExists\texorpdfstring\texorpdfstring\ltx@firstoftwo
791     $ {%
792     $   \HologoVariantRobust{#1}{#2}%
793     $ }{%
794     $   \ltx@ifundefined{HoLogoBkm@#1@#2}{%
795     $   \ltx@ifundefined{HoLogo@#1}{?#1?}{#1}%
796     $   }{%
797     $   \cscname HoLogoBkm@#1@#2\endcscname
798     $   \ltx@secondoftwo
799     $   }%
800     $   }%
801     $ \fi
802   \fi
803 }

804 \catcode`\$=3 %
```

## 2.7.2 \hologoRobust and friends

\hologoRobust

```
805 \ltx@ifundefined{protected}{%
806   \ltx@ifundefined{DeclareRobustCommand}{%
807     \def\hologoRobust#1%
808     }{%
809     \DeclareRobustCommand*\hologoRobust[1]%
810     }%
811   }{%
812     \protected\def\hologoRobust#1%
813     }%
814   {%
815     \edef\Hologo@name{#1}%
816     \ltx@ifundefined{HoLogo@\Hologo@Variant\Hologo@name}{%
817       \@PackageError{hologo}{%
818         Unknown logo `\'Hologo@name'%
819       }\@ehc
820       ?\Hologo@name?%
821     }{%
822       \ltx@ifundefined{ver@tex4ht.sty}{%
823         \HoLogoFont@font\Hologo@name{general}{%
824           \cscname HoLogo@\Hologo@Variant\Hologo@name\endcscname
825           \ltx@firstoftwo
826           }%
827         }{%
828           \ltx@ifundefined{HoLogoHtml@\Hologo@Variant\Hologo@name}{%
829             \Hologo@name
830             }{%
831             \cscname HoLogoHtml@\Hologo@Variant\Hologo@name\endcscname
832             \ltx@firstoftwo
833             }%
834           }%
835         }%
836       }%
837     }%
838   }%
839 }
```

```

835 }%
836 }

```

\HologoRobust

```

837 \ltx@ifundefined{protected}{%
838 \ltx@ifundefined{DeclareRobustCommand}{%
839 \def\HologoRobust#1%
840 }{%
841 \DeclareRobustCommand*\HologoRobust[1]%
842 }%
843 }{%
844 \protected\def\HologoRobust#1%
845 }%
846 {%
847 \edef\HOLOGO@name{#1}%
848 \ltx@ifundefined{HoLogo@\HOLOGO@Variant\HOLOGO@name}{%
849 \@PackageError{hologo}{%
850 Unknown logo `\'HOLOGO@name'%
851 }{\@ehc
852 ?\HOLOGO@name?%
853 }{%
854 \ltx@ifundefined{ver@tex4ht.sty}{%
855 \HoLogoFont@font\HOLOGO@name{general}{%
856 \csname HoLogo@\HOLOGO@Variant\HOLOGO@name\endcsname
857 \ltx@secondoftwo
858 }%
859 }{%
860 \ltx@ifundefined{HoLogoHtml@\HOLOGO@Variant\HOLOGO@name}{%
861 \expandafter\HOLOGO@Uppercase\HOLOGO@name
862 }{%
863 \csname HoLogoHtml@\HOLOGO@Variant\HOLOGO@name\endcsname
864 \ltx@secondoftwo
865 }%
866 }%
867 }%
868 }

```

\hologoVariantRobust

```

869 \ltx@ifundefined{protected}{%
870 \ltx@ifundefined{DeclareRobustCommand}{%
871 \def\hologoVariantRobust#1#2%
872 }{%
873 \DeclareRobustCommand*\hologoVariantRobust[2]%
874 }%
875 }{%
876 \protected\def\hologoVariantRobust#1#2%
877 }%
878 {%
879 \begingroup
880 \hologoLogoSetup{#1}{variant={#2}}%
881 \hologoRobust{#1}%
882 \endgroup
883 }

```

\HologoVariantRobust

```

884 \ltx@ifundefined{protected}{%
885 \ltx@ifundefined{DeclareRobustCommand}{%
886 \def\HologoVariantRobust#1#2%
887 }{%
888 \DeclareRobustCommand*\HologoVariantRobust[2]%
889 }%
890 }{%

```

```

891 \protected\def\HologoVariantRobust#1#2%
892 }%
893 {%
894 \begingroup
895 \hologoLogoSetup{#1}{variant={#2}}%
896 \HologoRobust{#1}%
897 \endgroup
898 }

```

`\hologorobust` Macro `\hologorobust` is only defined for compatibility. Its use is deprecated.

```

899 \def\hologorobust{\hologoRobust}

```

## 2.8 Helpers

`\HOLOGO@Uppercase` Macro `\HOLOGO@Uppercase` is restricted to `\uppercase`, because plain  $\mathrm{T}_{\mathrm{E}}\mathrm{X}$  or  $\mathrm{iniT}_{\mathrm{E}}\mathrm{X}$  do not provide `\MakeUppercase`.

```

900 \def\HOLOGO@Uppercase#1{\uppercase{#1}}

```

`\HOLOGO@PdfdocUnicode`

```

901 \def\HOLOGO@PdfdocUnicode{%
902 \ifx\ifHy@unicode\iftrue
903 \expandafter\ltx@secondoftwo
904 \else
905 \expandafter\ltx@firstoftwo
906 \fi
907 }

```

`\HOLOGO@Math`

```

908 \def\HOLOGO@MathSetup{%
909 \mathsurround0pt\relax
910 \HOLOGO@IfExists\series{%
911 \if b\expandafter\ltx@car\series x\@nil
912 \csname boldmath\endcsname
913 \fi
914 }{}%
915 }

```

`\HOLOGO@TempDimen`

```

916 \dimendef\HOLOGO@TempDimen=\ltx@zero

```

`\HOLOGO@NegativeKerning`

```

917 \def\HOLOGO@NegativeKerning#1{%
918 \begingroup
919 \HOLOGO@TempDimen=0pt\relax
920 \comma@parse@normalized{#1}{%
921 \ifdim\HOLOGO@TempDimen=0pt %
922 \expandafter\HOLOGO@@@NegativeKerning\comma@entry
923 \fi
924 \ltx@gobble
925 }%
926 \ifdim\HOLOGO@TempDimen<0pt %
927 \kern\HOLOGO@TempDimen
928 \fi
929 \endgroup
930 }

```

`\HOLOGO@@@NegativeKerning`

```

931 \def\HOLOGO@@@NegativeKerning#1#2{%
932 \setbox\ltx@zero\hbox{#1#2}%
933 \HOLOGO@TempDimen=\wd\ltx@zero
934 \setbox\ltx@zero\hbox{#1\kern0pt#2}%
935 \advance\HOLOGO@TempDimen by -\wd\ltx@zero
936 }

```



\HOLOGO@SpaceFactor

```
937 \def\HOLOGO@SpaceFactor{%
938   \spacefactor1000 %
939 }
```

\HOLOGO@Span

```
940 \def\HOLOGO@Span#1#2{%
941   \HCode{<span class="HoLogo-#1">}%
942   #2%
943   \HCode{</span>}%
944 }
```

### 2.8.1 Text subscript

\HOLOGO@SubScript

```
945 \def\HOLOGO@SubScript#1{%
946   \ltx@ifundefined{textsubscript}{%
947     \ltx@ifundefined{text}{%
948       \ltx@mbox{%
949         \mathsurround=0pt\relax
950         $%
951         _{%
952           \ltx@ifundefined{sf@size}{%
953             \mathrm{#1}%
954           }{%
955             \mbox{%
956               \fontsize\sf@size{0pt}\selectfont
957               #1%
958             }%
959             }%
960             }%
961             $%
962             }%
963           }{%
964             \ltx@mbox{%
965               \mathsurround=0pt\relax
966               $_{\text{#1}}$%
967             }%
968             }%
969           }{%
970             \textsubscript{#1}%
971             }%
972 }
```

## 2.9 T<sub>E</sub>X and friends

### 2.9.1 T<sub>E</sub>X

\HoLogo@TeX Source: L<sup>A</sup>T<sub>E</sub>X kernel.

```
973 \def\HoLogo@TeX#1{%
974   T\kern-.1667em\lower.5ex\hbox{E}\kern-.125emX\HOLOGO@SpaceFactor
975 }
```

\HoLogoHtml@TeX

```
976 \def\HoLogoHtml@TeX#1{%
977   \HoLogoCss@TeX
978   \HOLOGO@Span{TeX}{%
979     T%
980     \HOLOGO@Span{e}{%
981       E%
982     }%
983     X%
```

```

984 }%
985 }

```

`\HoLogoCss@TeX`

```

986 \def\HoLogoCss@TeX{%
987   \Css{%
988     span.HoLogo-TeX span.HoLogo-e{%
989       position:relative;%
990       top:.5ex;%
991       margin-left:-.1667em;%
992       margin-right:-.125em;%
993     }%
994   }%
995   \Css{%
996     a span.HoLogo-TeX span.HoLogo-e{%
997       text-decoration:none;%
998     }%
999   }%
1000 \global\let\HoLogoCss@TeX\relax
1001 }

```

## 2.9.2 plain T<sub>E</sub>X

`\HoLogo@plainTeX@space` Source: “The T<sub>E</sub>Xbook”

```

1002 \def\HoLogo@plainTeX@space#1{%
1003   \HOLOGO@mbox{#1{p}{P}lain}\HOLOGO@space\hologo{TeX}%
1004 }

```

`\HoLogoCs@plainTeX@space`

```

1005 \def\HoLogoCs@plainTeX@space#1{#1{p}{P}lain TeX}%

```

`\HoLogoBkm@plainTeX@space`

```

1006 \def\HoLogoBkm@plainTeX@space#1{%
1007   #1{p}{P}lain \hologo{TeX}%
1008 }

```

`\HoLogoHtml@plainTeX@space`

```

1009 \def\HoLogoHtml@plainTeX@space#1{%
1010   #1{p}{P}lain \hologo{TeX}%
1011 }

```

`\HoLogo@plainTeX@hyphen`

```

1012 \def\HoLogo@plainTeX@hyphen#1{%
1013   \HOLOGO@mbox{#1{p}{P}lain}\HOLOGO@hyphen\hologo{TeX}%
1014 }

```

`\HoLogoCs@plainTeX@hyphen`

```

1015 \def\HoLogoCs@plainTeX@hyphen#1{#1{p}{P}lain-TeX}

```

`\HoLogoBkm@plainTeX@hyphen`

```

1016 \def\HoLogoBkm@plainTeX@hyphen#1{%
1017   #1{p}{P}lain-\hologo{TeX}%
1018 }

```

`\HoLogoHtml@plainTeX@hyphen`

```

1019 \def\HoLogoHtml@plainTeX@hyphen#1{%
1020   #1{p}{P}lain-\hologo{TeX}%
1021 }

```

`\HoLogo@plainTeX@runtogether`

```

1022 \def\HoLogo@plainTeX@runtogether#1{%
1023   \HOLOGO@mbox{#1{p}{P}lain\hologo{TeX}}}%
1024 }

```

```

HoLogoCs@plainTeX@runtogether
1025 \def\HoLogoCs@plainTeX@runtogether#1{#1{p}{P}lainTeX}

LogoBkm@plainTeX@runtogether
1026 \def\HoLogoBkm@plainTeX@runtogether#1{%
1027   #1{p}{P}lain\hologo{TeX}%
1028 }

LogoHtml@plainTeX@runtogether
1029 \def\HoLogoHtml@plainTeX@runtogether#1{%
1030   #1{p}{P}lain\hologo{TeX}%
1031 }

\HoLogo@plainTeX
1032 \def\HoLogo@plainTeX{\HoLogo@plainTeX@space}

\HoLogoCs@plainTeX
1033 \def\HoLogoCs@plainTeX{\HoLogoCs@plainTeX@space}

\HoLogoBkm@plainTeX
1034 \def\HoLogoBkm@plainTeX{\HoLogoBkm@plainTeX@space}

\HoLogoHtml@plainTeX
1035 \def\HoLogoHtml@plainTeX{\HoLogoHtml@plainTeX@space}

```

### 2.9.3 L<sup>A</sup>T<sub>E</sub>X

Source: L<sup>A</sup>T<sub>E</sub>X kernel.

```

\DeclareRobustCommand{\LaTeX}{%
  L%
  \kern-.36em%
  {%
    \sbox\z@ T%
    \vbox to\ht\z@{%
      \hbox{%
        \check@mathfonts
        \fontsize\sf@size\z@
        \math@fontfalse
        \selectfont
        A%
      }%
      \vss
    }%
    \kern-.15em%
  }%
  \TeX
}

\HoLogo@La
1036 \def\HoLogo@La#1{%
1037   L%
1038   \kern-.36em%
1039   \begingroup
1040   \setbox\ltx@zero\hbox{T}%
1041   \vbox to\ht\ltx@zero{%
1042     \hbox{%
1043       \ltx@ifundefined{check@mathfonts}{%
1044         \csname sevenrm\endcsname
1045       }{%
1046         \check@mathfonts
1047         \fontsize\sf@size{0pt}%

```

```

1048     \math@fontsfalse\selectfont
1049   }%
1050   A%
1051 }%
1052 \vss
1053 }%
1054 \endgroup
1055 }

```

\HoLogo@LaTeX Source: L<sup>A</sup>T<sub>E</sub>X kernel.

```

1056 \def\HoLogo@LaTeX#1{%
1057   \hologo{La}%
1058   \kern-.15em%
1059   \hologo{TeX}%
1060 }

```

\HoLogoHtml@LaTeX

```

1061 \def\HoLogoHtml@LaTeX#1{%
1062   \HoLogoCss@LaTeX
1063   \HOLOGO@Span{LaTeX}{%
1064     L%
1065     \HOLOGO@Span{a}{%
1066       A%
1067     }%
1068     \hologo{TeX}%
1069   }%
1070 }

```

\HoLogoCss@LaTeX

```

1071 \def\HoLogoCss@LaTeX{%
1072   \Css{%
1073     span.HoLogo-LaTeX span.HoLogo-a{%
1074       position:relative;%
1075       top:-.5ex;%
1076       margin-left:-.36em;%
1077       margin-right:-.15em;%
1078       font-size:85\%;%
1079     }%
1080   }%
1081   \global\let\HoLogoCss@LaTeX\relax
1082 }

```

#### 2.9.4 (L<sup>A</sup>)T<sub>E</sub>X

\HoLogo@LaTeXTeX The kerning around the parentheses is taken from package dtklogos [2].

```

\DeclareRobustCommand{\LaTeXTeX}{%
  (%
  \kern-.15em%
  L%
  \kern-.36em%
  {%
    \sbox\z@ T%
    \vbox to\ht0{%
      \hbox{%
        $\m@th$%
        \csname S@\f@size\endcsname
        \fontsize\sf@size\z@
        \math@fontsfalse
        \selectfont
        A%
      }%
      \vss
    }
  }

```

```

        }%
    }%
    \kern-.2em%
    )%
    \kern-.15em%
    \TeX
}

1083 \def\HoLogo@LaTeXTeX#1{%
1084  (%)
1085  \kern-.15em%
1086  \hologo{La}%
1087  \kern-.2em%
1088  )%
1089  \kern-.15em%
1090  \hologo{TeX}%
1091  }

\HoLogoBkm@LaTeXTeX

1092 \def\HoLogoBkm@LaTeXTeX#1{(La)TeX}

\HoLogo@(La)TeX

1093 \expandafter
1094 \let\csname HoLogo@(La)TeX\endcsname\HoLogo@LaTeXTeX

\HoLogoBkm@(La)TeX

1095 \expandafter
1096 \let\csname HoLogoBkm@(La)TeX\endcsname\HoLogoBkm@LaTeXTeX

\HoLogoHtml@LaTeXTeX

1097 \def\HoLogoHtml@LaTeXTeX#1{%
1098  \HoLogoCss@LaTeXTeX
1099  \Hologo@Span{LaTeXTeX}{%
1100   (%)
1101   \Hologo@Span{L}{L}%
1102   \Hologo@Span{a}{A}%
1103   \Hologo@Span{ParenRight}{})}%
1104  \hologo{TeX}%
1105  }%
1106  }

\HoLogoHtml@(La)TeX Kerning after opening parentheses and before closing parentheses is −0.1 em. The
original values −0.15 em looked too ugly for a serif font.

1107 \expandafter
1108 \let\csname HoLogoHtml@(La)TeX\endcsname\HoLogoHtml@LaTeXTeX

\HoLogoCss@LaTeXTeX

1109 \def\HoLogoCss@LaTeXTeX{%
1110  \Css{%
1111   span.HoLogo-LaTeXTeX span.HoLogo-L{%
1112    margin-left:-.1em;%
1113   }%
1114  }%
1115  \Css{%
1116   span.HoLogo-LaTeXTeX span.HoLogo-a{%
1117    position:relative;%
1118    top:-.5ex;%
1119    margin-left:-.36em;%
1120    margin-right:-.1em;%
1121    font-size:85\%;%
1122   }%
1123  }%

```

```

1124 \Css{%
1125   span.HoLogo-LaTeXTeX span.HoLogo-ParenRight{%
1126     margin-right:-.15em;%
1127   }%
1128 }%
1129 \global\let\HoLogoCss@LaTeXTeX\relax
1130 }

```

### 2.9.5 L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>

\HoLogo@LaTeXe Source: L<sup>A</sup>T<sub>E</sub>X kernel

```

1131 \def\HoLogo@LaTeXe#1{%
1132   \hologo{LaTeX}%
1133   \kern.15em%
1134   \hbox{%
1135     \HOLOGO@MathSetup
1136     2%
1137     $_{\textstyle\varepsilon}$%
1138   }%
1139 }

```

\HoLogoCs@LaTeXe

```

1140 \ifnum64=\^^^0040\relax % test for big chars of LuaTeX/XeTeX
1141   \catcode`\$=9 %
1142   \catcode`\&=14 %
1143 \else
1144   \catcode`\$=14 %
1145   \catcode`\&=9 %
1146 \fi
1147 \def\HoLogoCs@LaTeXe#1{%
1148   LaTeX2%
1149   $\string\^^^0395%
1150   & e%
1151 }%
1152 \catcode`\$=3 %
1153 \catcode`\&=4 %

```

\HoLogoBkm@LaTeXe

```

1154 \def\HoLogoBkm@LaTeXe#1{%
1155   \hologo{LaTeX}%
1156   2%
1157   \HOLOGO@PdfdocUnicode{e}{\textepsilon}%
1158 }

```

\HoLogoHtml@LaTeXe

```

1159 \def\HoLogoHtml@LaTeXe#1{%
1160   \HoLogoCss@LaTeXe
1161   \HOLOGO@Span{LaTeX2e}{%
1162     \hologo{LaTeX}%
1163     \HOLOGO@Span{2}{2}%
1164     \HOLOGO@Span{e}{%
1165       \HOLOGO@MathSetup
1166       \ensuremath{\textstyle\varepsilon}%
1167     }%
1168   }%
1169 }

```

\HoLogoCss@LaTeXe

```

1170 \def\HoLogoCss@LaTeXe{%
1171   \Css{%
1172     span.HoLogo-LaTeX2e span.HoLogo-2{%
1173       padding-left:.15em;%

```

```

1174 }%
1175 }%
1176 \Css{%
1177   span.HoLogo-LaTeX2e span.HoLogo-e{%
1178     position:relative;%
1179     top:.35ex;%
1180     text-decoration:none;%
1181   }%
1182 }%
1183 \global\let\HoLogoCss@LaTeXe\relax
1184 }

```

\HoLogo@LaTeX2e

```

1185 \expandafter
1186 \let\csname HoLogo@LaTeX2e\endcsname\HoLogo@LaTeXe

```

\HoLogoCs@LaTeX2e

```

1187 \expandafter
1188 \let\csname HoLogoCs@LaTeX2e\endcsname\HoLogoCs@LaTeXe

```

\HoLogoBkm@LaTeX2e

```

1189 \expandafter
1190 \let\csname HoLogoBkm@LaTeX2e\endcsname\HoLogoBkm@LaTeXe

```

\HoLogoHtml@LaTeX2e

```

1191 \expandafter
1192 \let\csname HoLogoHtml@LaTeX2e\endcsname\HoLogoHtml@LaTeXe

```

## 2.9.6 L<sup>A</sup>T<sub>E</sub>X3

\HoLogo@LaTeX3 Source: L<sup>A</sup>T<sub>E</sub>X kernel

```

1193 \expandafter\def\csname HoLogo@LaTeX3\endcsname#1{%
1194   \hologo{LaTeX}%
1195   3%
1196 }

```

\HoLogoBkm@LaTeX3

```

1197 \expandafter\def\csname HoLogoBkm@LaTeX3\endcsname#1{%
1198   \hologo{LaTeX}%
1199   3%
1200 }

```

\HoLogoHtml@LaTeX3

```

1201 \expandafter
1202 \let\csname HoLogoHtml@LaTeX3\endcsname\expandafter\endcsname
1203 \csname HoLogo@LaTeX3\endcsname

```

## 2.9.7 L<sup>A</sup>T<sub>E</sub>xml

\HoLogo@LaTeXML

```

1204 \def\HoLogo@LaTeXML#1{%
1205   \HOLOGO@mbox{%
1206     \hologo{La}%
1207     \kern-.15em%
1208     T%
1209     \kern-.1667em%
1210     \lower.5ex\hbox{E}%
1211     \kern-.125em%
1212     \HoLogoFont@font{LaTeXML}{sc}{xml}%
1213   }%
1214 }

```

\HoLogoHtml@pdfLaTeX

```

1215 \def\HoLogoHtml@LaTeXML#1{%
1216 \HOLOGO@Span{LaTeXML}{%
1217 \HoLogoCss@LaTeX
1218 \HoLogoCss@TeX
1219 \HOLOGO@Span{LaTeX}{%
1220 L%
1221 \HOLOGO@Span{a}{%
1222 A%
1223 }%
1224 }%
1225 \HOLOGO@Span{TeX}{%
1226 T%
1227 \HOLOGO@Span{e}{%
1228 E%
1229 }%
1230 }%
1231 \HCode{<span style="font-variant: small-caps;">}%
1232 xml%
1233 \HCode{</span>}%
1234 }%
1235 }

```

### 2.9.8 $\epsilon$ -TeX

\HoLogo@eTeX Source: package etex

```

1236 \def\HoLogo@eTeX#1{%
1237 \ltx@mbox{%
1238 \HOLOGO@MathSetup
1239 $\varepsilon$%
1240 -%
1241 \HOLOGO@NegativeKerning{-T,T-,To}%
1242 \hologo{TeX}%
1243 }%
1244 }

```

\HoLogoCs@eTeX

```

1245 \ifnum64=\^^^0040\relax % test for big chars of LuaTeX/XeTeX
1246 \catcode`\$=9 %
1247 \catcode`\&=14 %
1248 \else
1249 \catcode`\$=14 %
1250 \catcode`\&=9 %
1251 \fi
1252 \def\HoLogoCs@eTeX#1{%
1253 $ #1{\string ~~~~0395}{\string ~~~~03b5}%
1254 & #1{e}{E}%
1255 TeX%
1256 }%
1257 \catcode`\$=3 %
1258 \catcode`\&=4 %

```

\HoLogoBkm@eTeX

```

1259 \def\HoLogoBkm@eTeX#1{%
1260 \HOLOGO@PdfdocUnicode{#1{e}{E}}{\textepsilon}%
1261 -%
1262 \hologo{TeX}%
1263 }

```

\HoLogoHtml@eTeX

```

1264 \def\HoLogoHtml@eTeX#1{%
1265 \ltx@mbox{%

```



```

1266 \HOLOGO@MathSetup
1267 $\varepsilon$%
1268 -%
1269 \hologo{TeX}%
1270 }%
1271 }

```

### 2.9.9 iniTeX

\HoLogo@iniTeX

```

1272 \def\HoLogo@iniTeX#1{%
1273 \HOLOGO@mbox{%
1274   #1{i}{I}ni\hologo{TeX}%
1275 }%
1276 }

```

\HoLogoCs@iniTeX

```

1277 \def\HoLogoCs@iniTeX#1{#1{i}{I}niTeX}

```

\HoLogoBkm@iniTeX

```

1278 \def\HoLogoBkm@iniTeX#1{%
1279   #1{i}{I}ni\hologo{TeX}%
1280 }

```

\HoLogoHtml@iniTeX

```

1281 \let\HoLogoHtml@iniTeX\HoLogo@iniTeX

```

### 2.9.10 virTeX

\HoLogo@virTeX

```

1282 \def\HoLogo@virTeX#1{%
1283 \HOLOGO@mbox{%
1284   #1{v}{V}ir\hologo{TeX}%
1285 }%
1286 }

```

\HoLogoCs@virTeX

```

1287 \def\HoLogoCs@virTeX#1{#1{v}{V}irTeX}

```

\HoLogoBkm@virTeX

```

1288 \def\HoLogoBkm@virTeX#1{%
1289   #1{v}{V}ir\hologo{TeX}%
1290 }

```

\HoLogoHtml@virTeX

```

1291 \let\HoLogoHtml@virTeX\HoLogo@virTeX

```

### 2.9.11 SLiTeX

Definitions of the three variants.

\HoLogo@SLiTeX@lift

```

1292 \def\HoLogo@SLiTeX@lift#1{%
1293 \HoLogoFont@font{SLiTeX}{rm}{%
1294   S%
1295   \kern-.06em%
1296   L%
1297   \kern-.18em%
1298   \raise.32ex\hbox{\HoLogoFont@font{SLiTeX}{sc}{i}}}%
1299 \HOLOGO@discretionary
1300 \kern-.06em%

```

```

1301 \hologo{TeX}%
1302 }%
1303 }

```

\HoLogoBkm@SLiTeX@lift

```

1304 \def\HoLogoBkm@SLiTeX@lift#1{SLiTeX}

```

\HoLogoHtml@SLiTeX@lift

```

1305 \def\HoLogoHtml@SLiTeX@lift#1{%
1306 \HoLogoCss@SLiTeX@lift
1307 \Hologo@Span{SLiTeX-lift}{%
1308 \HoLogoFont@font{SLiTeX}{rm}{%
1309 S%
1310 \Hologo@Span{L}{L}%
1311 \Hologo@Span{i}{i}%
1312 \hologo{TeX}%
1313 }%
1314 }%
1315 }

```

\HoLogoCss@SLiTeX@lift

```

1316 \def\HoLogoCss@SLiTeX@lift{%
1317 \Css{%
1318 span.HoLogo-SLiTeX-lift span.HoLogo-L{%
1319 margin-left:-.06em;%
1320 margin-right:-.18em;%
1321 }%
1322 }%
1323 \Css{%
1324 span.HoLogo-SLiTeX-lift span.HoLogo-i{%
1325 position:relative;%
1326 top:-.32ex;%
1327 margin-right:-.06em;%
1328 font-variant:small-caps;%
1329 }%
1330 }%
1331 \global\let\HoLogoCss@SLiTeX@lift\relax
1332 }

```

\HoLogo@SLiTeX@simple

```

1333 \def\HoLogo@SLiTeX@simple#1{%
1334 \HoLogoFont@font{SLiTeX}{rm}{%
1335 \ltx@mbox{%
1336 \HoLogoFont@font{SLiTeX}{sc}{SLi}%
1337 }%
1338 \Hologo@discretionary
1339 \hologo{TeX}%
1340 }%
1341 }

```

\HoLogoBkm@SLiTeX@simple

```

1342 \def\HoLogoBkm@SLiTeX@simple#1{SLiTeX}

```

\HoLogoHtml@SLiTeX@simple

```

1343 \let\HoLogoHtml@SLiTeX@simple\HoLogo@SLiTeX@simple

```

\HoLogo@SLiTeX@narrow

```

1344 \def\HoLogo@SLiTeX@narrow#1{%
1345 \HoLogoFont@font{SLiTeX}{rm}{%
1346 \ltx@mbox{%
1347 S%
1348 \kern-.06em%

```

```

1349 \HoLogoFont@font{SliTeX}{sc}{%
1350 1%
1351 \kern-.035em%
1352 i%
1353 }%
1354 }%
1355 \HOLOGO@discretionary
1356 \kern-.06em%
1357 \hologo{TeX}%
1358 }%
1359 }

```

\HoLogoBkm@SliTeX@narrow

```
1360 \def\HoLogoBkm@SliTeX@narrow#1{SliTeX}
```

\HoLogoHtml@SliTeX@narrow

```

1361 \def\HoLogoHtml@SliTeX@narrow#1{%
1362 \HoLogoCss@SliTeX@narrow
1363 \HOLOGO@Span{SliTeX-narrow}{%
1364 \HoLogoFont@font{SliTeX}{rm}{%
1365 S%
1366 \HOLOGO@Span{1}{1}%
1367 \HOLOGO@Span{i}{i}%
1368 \hologo{TeX}%
1369 }%
1370 }%
1371 }

```

\HoLogoCss@SliTeX@narrow

```

1372 \def\HoLogoCss@SliTeX@narrow{%
1373 \Css{%
1374 span.HoLogo-SliTeX-narrow span.HoLogo-l{%
1375 margin-left:-.06em;%
1376 margin-right:-.035em;%
1377 font-variant:small-caps;%
1378 }%
1379 }%
1380 \Css{%
1381 span.HoLogo-SliTeX-narrow span.HoLogo-i{%
1382 margin-right:-.06em;%
1383 font-variant:small-caps;%
1384 }%
1385 }%
1386 \global\let\HoLogoCss@SliTeX@narrow\relax
1387 }

```

## Macro set completion.

\HoLogo@SliTeX@simple

```
1388 \def\HoLogo@SliTeX@simple{\HoLogo@SliTeX@simple}
```

\HoLogoBkm@SliTeX@simple

```
1389 \def\HoLogoBkm@SliTeX@simple{\HoLogoBkm@SliTeX@simple}
```

\HoLogoHtml@SliTeX@simple

```
1390 \def\HoLogoHtml@SliTeX@simple{\HoLogoHtml@SliTeX@simple}
```

\HoLogo@SliTeX@narrow

```
1391 \def\HoLogo@SliTeX@narrow{\HoLogo@SliTeX@narrow}
```

\HoLogoBkm@SliTeX@narrow

```
1392 \def\HoLogoBkm@SliTeX@narrow{\HoLogoBkm@SliTeX@narrow}
```

```

\HoLogoHtml@SLiTeX@narrow
1393 \def\HoLogoHtml@SLiTeX@narrow{\HoLogoHtml@SLiTeX@narrow}

\HoLogo@SLiTeX@lift
1394 \def\HoLogo@SLiTeX@lift{\HoLogo@SLiTeX@lift}

\HoLogoBkm@SLiTeX@lift
1395 \def\HoLogoBkm@SLiTeX@lift{\HoLogoBkm@SLiTeX@lift}

\HoLogoHtml@SLiTeX@lift
1396 \def\HoLogoHtml@SLiTeX@lift{\HoLogoHtml@SLiTeX@lift}

```

### Defaults.

```

\HoLogo@SLiTeX
1397 \def\HoLogo@SLiTeX{\HoLogo@SLiTeX@lift}

\HoLogoBkm@SLiTeX
1398 \def\HoLogoBkm@SLiTeX{\HoLogoBkm@SLiTeX@lift}

\HoLogoHtml@SLiTeX
1399 \def\HoLogoHtml@SLiTeX{\HoLogoHtml@SLiTeX@lift}

\HoLogo@SLiTeX
1400 \def\HoLogo@SLiTeX{\HoLogo@SLiTeX@narrow}

\HoLogoBkm@SLiTeX
1401 \def\HoLogoBkm@SLiTeX{\HoLogoBkm@SLiTeX@narrow}

\HoLogoHtml@SLiTeX
1402 \def\HoLogoHtml@SLiTeX{\HoLogoHtml@SLiTeX@narrow}

```

### 2.9.12 LuaTeX

```

\HoLogo@LuaTeX The kerning is an idea of Hans Hagen, see mailing list ‘luatex at tug dot org’ in
March 2010.
1403 \def\HoLogo@LuaTeX#1{%
1404   \Hologo@mbox{%
1405     Lua%
1406     \Hologo@NegativeKerning{aT,oT,To}%
1407     \hologo{TeX}%
1408   }%
1409 }

```

```

\HoLogoHtml@LuaTeX
1410 \let\HoLogoHtml@LuaTeX\HoLogo@LuaTeX

```

### 2.9.13 LuaLaTeX

```

\HoLogo@LuaLaTeX
1411 \def\HoLogo@LuaLaTeX#1{%
1412   \Hologo@mbox{%
1413     Lua%
1414     \hologo{LaTeX}%
1415   }%
1416 }

\HoLogoHtml@LuaLaTeX
1417 \let\HoLogoHtml@LuaLaTeX\HoLogo@LuaLaTeX

```

## 2.9.14 XeTeX, XeLaTeX

\Hologo@ifCharExists

```

1418 \ifluatex
1419 \ifnum\luatexversion<36 %
1420 \else
1421 \def\Hologo@ifCharExists#1{%
1422 \ifnum
1423 \directlua{%
1424 if luaotfload and luaotfload.aux then
1425 if luaotfload.aux.font__has__glyph(%
1426 font.current(), \number#1) then %
1427 tex.print("1") %
1428 end %
1429 elseif font and font.fonts and font.current then %
1430 local f = font.fonts[font.current()]%
1431 if f.characters and f.characters[\number#1] then %
1432 tex.print("1")%
1433 end %
1434 end%
1435 }0=\ltx@zero
1436 \expandafter\ltx@secondoftwo
1437 \else
1438 \expandafter\ltx@firstoftwo
1439 \fi
1440 }%
1441 \fi
1442 \fi
1443 \ltx@ifundefined{Hologo@ifCharExists}{%
1444 \def\Hologo@@@ifCharExists#1{%
1445 \begingroup
1446 \tracinglostchars=\ltx@zero
1447 \setbox\ltx@zero=\hbox{%
1448 \kern7sp\char#1\relax
1449 \ifnum\lastkern>\ltx@zero
1450 \expandafter\aftergroup\csname iffalse\endcsname
1451 \else
1452 \expandafter\aftergroup\csname iftrue\endcsname
1453 \fi
1454 }%
1455 % \if{true|false} from \aftergroup
1456 \endgroup
1457 \expandafter\ltx@firstoftwo
1458 \else
1459 \endgroup
1460 \expandafter\ltx@secondoftwo
1461 \fi
1462 }%
1463 \ifxetex
1464 \ltx@ifundefined{XeTeXfonttype}{}%
1465 \ltx@ifundefined{XeTeXcharglyph}{}%
1466 \def\Hologo@ifCharExists#1{%
1467 \ifnum\XeTeXfonttype\font>\ltx@zero
1468 \expandafter\ltx@firstofthree
1469 \else
1470 \expandafter\ltx@gobble
1471 \fi
1472 {%
1473 \ifnum\XeTeXcharglyph#1>\ltx@zero
1474 \expandafter\ltx@firstoftwo
1475 \else
1476 \expandafter\ltx@secondoftwo
1477 \fi

```

```

1478     }%
1479     \HOLOGO@@@IfCharExists{#1}%
1480     }%
1481     }%
1482     }%
1483     \fi
1484   }{}
1485   \ltx@ifundefined{HOLOGO@IfCharExists}{%
1486     \ifnum64=\^^^0040\relax % test for big chars of LuaTeX/XeTeX
1487     \let\HOLOGO@IfCharExists\HOLOGO@@@IfCharExists
1488   \else
1489     \def\HOLOGO@IfCharExists#1{%
1490       \ifnum#1>255 %
1491         \expandafter\ltx@fourthoffour
1492       \fi
1493       \HOLOGO@@@IfCharExists{#1}%
1494     }%
1495   \fi
1496 }{}

```

\HoLogo@Xe Source: package dtklogos

```

1497 \def\HoLogo@Xe#1{%
1498   X%
1499   \kern-.1em\relax
1500   \HOLOGO@IfCharExists{"018E}{%
1501     \lower.5ex\hbox{\char"018E}%
1502   }{%
1503     \chardef\HOLOGO@choice=\ltx@zero
1504     \ifdim\fontdimen\ltx@one\font>0pt %
1505       \ltx@ifundefined{rotatebox}{%
1506         \ltx@ifundefined{pgftext}{%
1507           \ltx@ifundefined{psscalebox}{%
1508             \ltx@ifundefined{HOLOGO@ScaleBox@hologoDriver}{%
1509               }{%
1510                 \chardef\HOLOGO@choice=4 %
1511               }%
1512             }{%
1513               \chardef\HOLOGO@choice=3 %
1514             }%
1515           }{%
1516             \chardef\HOLOGO@choice=2 %
1517           }%
1518         }{%
1519           \chardef\HOLOGO@choice=1 %
1520         }%
1521         \ifcase\HOLOGO@choice
1522           \HOLOGO@WarningUnsupportedDriver{Xe}%
1523           e%
1524         \or % 1: \rotatebox
1525           \begingroup
1526             \setbox\ltx@zero\hbox{\rotatebox{180}{E}}%
1527             \ltx@LocDimenA=\dp\ltx@zero
1528             \advance\ltx@LocDimenA by -.5ex\relax
1529             \raise\ltx@LocDimenA\box\ltx@zero
1530           \endgroup
1531         \or % 2: \pgftext
1532           \lower.5ex\hbox{%
1533             \pgfpicture
1534               \pgftext[rotate=180]{E}%
1535             \endpgfpicture
1536           }%
1537         \or % 3: \psscalebox
1538           \begingroup

```

```

1539     \setbox\ltx@zero\hbox{\psscalebox{-1 -1}{E}}%
1540     \ltx@LocDimenA=\dp\ltx@zero
1541     \advance\ltx@LocDimenA by -.5ex\relax
1542     \raise\ltx@LocDimenA\box\ltx@zero
1543     \endgroup
1544     \or % 4: \HOLOGO@PointReflectBox
1545     \lower.5ex\hbox{\HOLOGO@PointReflectBox{E}}%
1546     \else
1547     \@PackageError{hologo}{Internal error (choice/it)}\@ehc
1548     \fi
1549   \else
1550     \ltx@ifundefined{reflectbox}{%
1551       \ltx@ifundefined{pgftext}{%
1552         \ltx@ifundefined{psscalebox}{%
1553           \ltx@ifundefined{HOLOGO@ScaleBox@hologoDriver}{%
1554             }{%
1555               \chardef\HOLOGO@choice=4 %
1556             }%
1557           }{%
1558             \chardef\HOLOGO@choice=3 %
1559           }%
1560         }{%
1561           \chardef\HOLOGO@choice=2 %
1562         }%
1563       }{%
1564         \chardef\HOLOGO@choice=1 %
1565       }%
1566     \ifcase\HOLOGO@choice
1567     \HOLOGO@WarningUnsupportedDriver{Xe}%
1568     e%
1569     \or % 1: reflectbox
1570     \lower.5ex\hbox{%
1571       \reflectbox{E}%
1572     }%
1573     \or % 2: \pgftext
1574     \lower.5ex\hbox{%
1575       \pgfpicture
1576       \pgftransformxscale{-1}%
1577       \pgftext{E}%
1578       \endpgfpicture
1579     }%
1580     \or % 3: \psscalebox
1581     \lower.5ex\hbox{%
1582       \psscalebox{-1 1}{E}%
1583     }%
1584     \or % 4: \HOLOGO@Reflectbox
1585     \lower.5ex\hbox{%
1586       \HOLOGO@ReflectBox{E}%
1587     }%
1588     \else
1589     \@PackageError{hologo}{Internal error (choice/up)}\@ehc
1590     \fi
1591   \fi
1592 }%
1593 }

```

\HoLogoHtml@Xe

```

1594 \def\HoLogoHtml@Xe#1{%
1595   \HoLogoCss@Xe
1596   \HOLOGO@Span{Xe}{%
1597     X%
1598     \HOLOGO@Span{e}{%
1599       \HCode{&\ltx@hashchar x018e;}%

```

```

1600 }%
1601 }%
1602 }

\HoLogoCss@Xe
1603 \def\HoLogoCss@Xe{%
1604 \Css{%
1605 span.HoLogo-Xe span.HoLogo-e{%
1606 position:relative;%
1607 top:.5ex;%
1608 left-margin:-.1em;%
1609 }%
1610 }%
1611 \global\let\HoLogoCss@Xe\relax
1612 }

\HoLogo@XeTeX
1613 \def\HoLogo@XeTeX#1{%
1614 \hologo{Xe}%
1615 \kern-.15em\relax
1616 \hologo{TeX}%
1617 }

\HoLogoHtml@XeTeX
1618 \def\HoLogoHtml@XeTeX#1{%
1619 \HoLogoCss@XeTeX
1620 \HOLOGO@Span{XeTeX}{%
1621 \hologo{Xe}%
1622 \hologo{TeX}%
1623 }%
1624 }

\HoLogoCss@XeTeX
1625 \def\HoLogoCss@XeTeX{%
1626 \Css{%
1627 span.HoLogo-XeTeX span.HoLogo-TeX{%
1628 margin-left:-.15em;%
1629 }%
1630 }%
1631 \global\let\HoLogoCss@XeTeX\relax
1632 }

\HoLogo@XeLaTeX
1633 \def\HoLogo@XeLaTeX#1{%
1634 \hologo{Xe}%
1635 \kern-.13em%
1636 \hologo{LaTeX}%
1637 }

\HoLogoHtml@XeLaTeX
1638 \def\HoLogoHtml@XeLaTeX#1{%
1639 \HoLogoCss@XeLaTeX
1640 \HOLOGO@Span{XeLaTeX}{%
1641 \hologo{Xe}%
1642 \hologo{LaTeX}%
1643 }%
1644 }

\HoLogoCss@XeLaTeX
1645 \def\HoLogoCss@XeLaTeX{%
1646 \Css{%
1647 span.HoLogo-XeLaTeX span.HoLogo-Xe{%

```



```

1648     margin-right:-.13em;%
1649   }%
1650 }%
1651 \global\let\HoLogoCss@XeLaTeX\relax
1652 }

```

### 2.9.15 pdfTeX, pdfLaTeX

\HoLogo@pdfTeX

```

1653 \def\HoLogo@pdfTeX#1{%
1654   \HOLOGO@mbbox{%
1655     #1{p}{P}df\hologo{TeX}%
1656   }%
1657 }

```

\HoLogoCs@pdfTeX

```

1658 \def\HoLogoCs@pdfTeX#1{#1{p}{P}dfTeX}

```

\HoLogoBkm@pdfTeX

```

1659 \def\HoLogoBkm@pdfTeX#1{%
1660   #1{p}{P}df\hologo{TeX}%
1661 }

```

\HoLogoHtml@pdfTeX

```

1662 \let\HoLogoHtml@pdfTeX\HoLogo@pdfTeX

```

\HoLogo@pdfLaTeX

```

1663 \def\HoLogo@pdfLaTeX#1{%
1664   \HOLOGO@mbbox{%
1665     #1{p}{P}df\hologo{LaTeX}%
1666   }%
1667 }

```

\HoLogoCs@pdfLaTeX

```

1668 \def\HoLogoCs@pdfLaTeX#1{#1{p}{P}dfLaTeX}

```

\HoLogoBkm@pdfLaTeX

```

1669 \def\HoLogoBkm@pdfLaTeX#1{%
1670   #1{p}{P}df\hologo{LaTeX}%
1671 }

```

\HoLogoHtml@pdfLaTeX

```

1672 \let\HoLogoHtml@pdfLaTeX\HoLogo@pdfLaTeX

```

### 2.9.16 VTeX

\HoLogo@VTeX

```

1673 \def\HoLogo@VTeX#1{%
1674   \HOLOGO@mbbox{%
1675     V\hologo{TeX}%
1676   }%
1677 }

```

\HoLogoHtml@VTeX

```

1678 \let\HoLogoHtml@VTeX\HoLogo@VTeX

```

### 2.9.17 $\mathcal{MS}$ , ...

Source: class amsdtx

$\backslash$ HoLogo@AmS

```
1679 \def\HoLogo@AmS#1{%
1680   \HoLogoFont@font{AmS}{sy}{%
1681     A%
1682     \kern-.1667em%
1683     \lower.5ex\hbox{M}%
1684     \kern-.125em%
1685     S%
1686   }%
1687 }
```

$\backslash$ HoLogoBkm@AmS

```
1688 \def\HoLogoBkm@AmS#1{AmS}
```

$\backslash$ HoLogoHtml@AmS

```
1689 \def\HoLogoHtml@AmS#1{%
1690   \HoLogoCss@AmS
1691   % \HoLogoFont@font{AmS}{sy}{%
1692     \HOLOGO@Span{AmS}{%
1693       A%
1694       \HOLOGO@Span{M}{M}%
1695       S%
1696     }%
1697   % }%
1698 }
```

$\backslash$ HoLogoCss@AmS

```
1699 \def\HoLogoCss@AmS{%
1700   \Css{%
1701     span.HoLogo-AmS span.HoLogo-M{%
1702       position:relative;%
1703       top:.5ex;%
1704       margin-left:-.1667em;%
1705       margin-right:-.125em;%
1706       text-decoration:none;%
1707     }%
1708   }%
1709   \global\let\HoLogoCss@AmS\relax
1710 }
```

$\backslash$ HoLogo@AmSTeX

```
1711 \def\HoLogo@AmSTeX#1{%
1712   \hologo{AmS}%
1713   \HOLOGO@hyphen
1714   \hologo{TeX}%
1715 }
```

$\backslash$ HoLogoBkm@AmSTeX

```
1716 \def\HoLogoBkm@AmSTeX#1{AmS-TeX}%
```

$\backslash$ HoLogoHtml@AmSTeX

```
1717 \let\HoLogoHtml@AmSTeX\HoLogo@AmSTeX
```

$\backslash$ HoLogo@AmSLaTeX

```
1718 \def\HoLogo@AmSLaTeX#1{%
1719   \hologo{AmS}%
1720   \HOLOGO@hyphen
1721   \hologo{LaTeX}%
1722 }
```

\HoLogoBkm@AmSLaTeX

```
1723 \def\HoLogoBkm@AmSLaTeX#1{AmS-LaTeX}%
```

\HoLogoHtml@AmSLaTeX

```
1724 \let\HoLogoHtml@AmSLaTeX\HoLogo@AmSLaTeX
```

## 2.9.18 BibTeX

\HoLogo@BibTeX@sc A definition of BibTeX is provided in the documentation source for the manual of BibTeX [1].

```
\def\BibTeX{%
  {%
    \rm
    B%
    \kern-.05em%
    {%
      \sc
      i%
      \kern-.025em %
      b%
    }%
    \kern-.08em
    T%
    \kern-.1667em%
    \lower.7ex\hbox{E}%
    \kern-.125em%
    X%
  }%
}
```

```
1725 \def\HoLogo@BibTeX@sc#1{%
1726   B%
1727   \kern-.05em%
1728   \HoLogoFont@font{BibTeX}{sc}{%
1729     i%
1730     \kern-.025em%
1731     b%
1732   }%
1733   \HOLOGO@discretionary
1734   \kern-.08em%
1735   \hologo{TeX}%
1736 }
```

\HoLogoHtml@BibTeX@sc

```
1737 \def\HoLogoHtml@BibTeX@sc#1{%
1738   \HoLogoCss@BibTeX@sc
1739   \HOLOGO@Span{BibTeX-sc}{%
1740     B%
1741     \HOLOGO@Span{i}{i}%
1742     \HOLOGO@Span{b}{b}%
1743     \hologo{TeX}%
1744   }%
1745 }
```

\HoLogoCss@BibTeX@sc

```
1746 \def\HoLogoCss@BibTeX@sc{%
1747   \Css{%
1748     span.HoLogo-BibTeX-sc span.HoLogo-i{%
1749       margin-left:-.05em;%
1750       margin-right:-.025em;%
1751       font-variant:small-caps;%
1752     }%
```

```

1753 }%
1754 \Css{%
1755   span.HoLogo-BibTeX-sc span.HoLogo-b{%
1756     margin-right:-.08em;%
1757     font-variant:small-caps;%
1758   }%
1759 }%
1760 \global\let\HoLogoCss@BibTeX@sc\relax
1761 }

```

\HoLogo@BibTeX@sf Variant sf avoids trouble with unavailable small caps fonts (e.g., bold versions of Computer Modern or Latin Modern). The definition is taken from package [dtklogos](#) [2].

```

\DeclareRobustCommand{\BibTeX}{%
  B%
  \kern-.05em%
  \hbox{%
    $\m@th$% %% force math size calculations
    \csname S@\f@size\endcsname
    \fontsize\sf@size\z@
    \math@fontsfalse
    \selectfont
    I%
    \kern-.025em%
    B
  }%
  \kern-.08em%
  \-%
  \TeX
}

```

```

1762 \def\HoLogo@BibTeX@sf#1{%
1763   B%
1764   \kern-.05em%
1765   \HoLogoFont@font{BibTeX}{bibs}{%
1766     I%
1767     \kern-.025em%
1768     B%
1769   }%
1770   \Hologo@discretionary
1771   \kern-.08em%
1772   \hologo{TeX}%
1773 }

```

\HoLogoHtml@BibTeX@sf

```

1774 \def\HoLogoHtml@BibTeX@sf#1{%
1775   \HoLogoCss@BibTeX@sf
1776   \Hologo@Span{BibTeX-sf}{%
1777     B%
1778     \HoLogoFont@font{BibTeX}{bibs}{%
1779       \Hologo@Span{i}{I}%
1780       B%
1781     }%
1782     \hologo{TeX}%
1783   }%
1784 }

```

\HoLogoCss@BibTeX@sf

```

1785 \def\HoLogoCss@BibTeX@sf{%
1786   \Css{%
1787     span.HoLogo-BibTeX-sf span.HoLogo-i{%
1788       margin-left:-.05em;%

```

```

1789     margin-right:-.025em;%
1790 }%
1791 }%
1792 \Css{%
1793     span.HoLogo-BibTeX-sf span.HoLogo-TeX{%
1794         margin-left:-.08em;%
1795     }%
1796 }%
1797 \global\let\HoLogoCss@BibTeX@sf\relax
1798 }

```

\HoLogo@BibTeX

```

1799 \def\HoLogo@BibTeX{\HoLogo@BibTeX@sf}

```

\HoLogoHtml@BibTeX

```

1800 \def\HoLogoHtml@BibTeX{\HoLogoHtml@BibTeX@sf}

```

## 2.9.19 BIB<sub>T</sub>EX8

\HoLogo@BibTeX8

```

1801 \expandafter\def\csname HoLogo@BibTeX8\endcsname#1{%
1802     \hologo{BibTeX}%
1803     8%
1804 }

```

\HoLogoBkm@BibTeX8

```

1805 \expandafter\def\csname HoLogoBkm@BibTeX8\endcsname#1{%
1806     \hologo{BibTeX}%
1807     8%
1808 }

```

\HoLogoHtml@BibTeX8

```

1809 \expandafter
1810 \let\csname HoLogoHtml@BibTeX8\expandafter\endcsname
1811 \csname HoLogo@BibTeX8\endcsname

```

## 2.9.20 Con<sub>T</sub>EXt

\HoLogo@ConTeXt@simple

```

1812 \def\HoLogo@ConTeXt@simple#1{%
1813     \Hologo@mbox{Con}%
1814     \Hologo@discretionary
1815     \Hologo@mbox{\hologo{TeX}t}%
1816 }

```

\HoLogoHtml@ConTeXt@simple

```

1817 \let\HoLogoHtml@ConTeXt@simple\HoLogo@ConTeXt@simple

```

\HoLogo@ConTeXt@narrow This definition of logo Con<sub>T</sub>EXt with variant `narrow` comes from TUGboat's class `ltugboat` (version 2010/11/15 v2.8).

```

1818 \def\HoLogo@ConTeXt@narrow#1{%
1819     \Hologo@mbox{C\kern-.0333emon}%
1820     \Hologo@discretionary
1821     \kern-.0667em%
1822     \Hologo@mbox{\hologo{TeX}\kern-.0333emt}%
1823 }

```

\HoLogoHtml@ConTeXt@narrow

```

1824 \def\HoLogoHtml@ConTeXt@narrow#1{%
1825     \HoLogoCss@ConTeXt@narrow
1826     \Hologo@Span{ConTeXt-narrow}{%

```

```

1827 \HOLOGO@Span{C}{C}%
1828 on%
1829 \hologo{TeX}%
1830 t%
1831 }%
1832 }

```

\HoLogoCss@ConTeXt@narrow

```

1833 \def\HoLogoCss@ConTeXt@narrow{%
1834 \Css{%
1835 span.HoLogo-ConTeXt-narrow span.HoLogo-C{%
1836 margin-left:-.0333em;%
1837 }%
1838 }%
1839 \Css{%
1840 span.HoLogo-ConTeXt-narrow span.HoLogo-TeX{%
1841 margin-left:-.0667em;%
1842 margin-right:-.0333em;%
1843 }%
1844 }%
1845 \global\let\HoLogoCss@ConTeXt@narrow\relax
1846 }

```

\HoLogo@ConTeXt

```

1847 \def\HoLogo@ConTeXt{\HoLogo@ConTeXt@narrow}

```

\HoLogoHtml@ConTeXt

```

1848 \def\HoLogoHtml@ConTeXt{\HoLogoHtml@ConTeXt@narrow}

```

## 2.9.21 emTeX

\HoLogo@emTeX

```

1849 \def\HoLogo@emTeX#1{%
1850 \HOLOGO@mbox{#1{e}{E}m}%
1851 \HOLOGO@discretionary
1852 \hologo{TeX}%
1853 }

```

\HoLogoCs@emTeX

```

1854 \def\HoLogoCs@emTeX#1{#1{e}{E}mTeX}%

```

\HoLogoBkm@emTeX

```

1855 \def\HoLogoBkm@emTeX#1{%
1856 #1{e}{E}m\hologo{TeX}%
1857 }

```

\HoLogoHtml@emTeX

```

1858 \let\HoLogoHtml@emTeX\HoLogo@emTeX

```

## 2.9.22 $\varepsilon_X$ TeX

\HoLogo@ExTeX The definition is taken from the FAQ of the project  $\varepsilon_X$ TeX [4].

```

\def\ExTeX{%
\textrm{% Logo always with serifs
\ensuremath{%
\textstyle
\varepsilon_
\kern-0.15em%
\mathcal{X}}%
}%
}%

```

```

        \kern-.15em%
        \TeX
    }%
}

1859 \def\HoLogo@ExTeX#1{%
1860   \HoLogoFont@font{ExTeX}{rm}{%
1861     \ltx@mbox{%
1862       \HOLOGO@MathSetup
1863       $%
1864       \textstyle
1865       \varepsilon_{%
1866         \kern-.15em%
1867         \HoLogoFont@font{ExTeX}{sy}{X}%
1868       }%
1869       $%
1870     }%
1871     \HOLOGO@discretionary
1872     \kern-.15em%
1873     \hologo{TeX}%
1874   }%
1875 }

\HoLogoHtml@ExTeX

1876 \def\HoLogoHtml@ExTeX#1{%
1877   \HoLogoCss@ExTeX
1878   \HoLogoFont@font{ExTeX}{rm}{%
1879     \HOLOGO@Span{ExTeX}{%
1880       \ltx@mbox{%
1881         \HOLOGO@MathSetup
1882         $\textstyle\varepsilon$%
1883         \HOLOGO@Span{X}{$\textstyle\chi$}%
1884         \hologo{TeX}%
1885       }%
1886     }%
1887   }%
1888 }

\HoLogoBkm@ExTeX

1889 \def\HoLogoBkm@ExTeX#1{%
1890   \HOLOGO@PdfdocUnicode{#1{e}{E}x}{\textepsilon\textchi}%
1891   \hologo{TeX}%
1892 }

\HoLogoCss@ExTeX

1893 \def\HoLogoCss@ExTeX{%
1894   \Css{%
1895     span.HoLogo-ExTeX{%
1896       font-family:serif;%
1897     }%
1898   }%
1899   \Css{%
1900     span.HoLogo-ExTeX span.HoLogo-TeX{%
1901       margin-left:-.15em;%
1902     }%
1903   }%
1904   \global\let\HoLogoCss@ExTeX\relax
1905 }

```

### 2.9.23 MiKTeX

\HoLogo@MiKTeX

```

1906 \def\HoLogo@MiKTeX#1{%
1907   \Hologo@mbbox{MiK}%
1908   \Hologo@discretionary
1909   \hologo{TeX}%
1910 }

```

\HoLogoHtml@MiKTeX

```

1911 \let\HoLogoHtml@MiKTeX\HoLogo@MiKTeX

```

## 2.9.24 OzTeX and friends

Source: OzTeX FAQ [6]:

```

\def\OzTeX{O\kern-.03em z\kern-.15em\TeX}
(There is no kerning in OzMF, OzMP and OzTtH.)

```

\HoLogo@OzTeX

```

1912 \def\HoLogo@OzTeX#1{%
1913   O%
1914   \kern-.03em %
1915   z%
1916   \kern-.15em %
1917   \hologo{TeX}%
1918 }

```

\HoLogoHtml@OzTeX

```

1919 \def\HoLogoHtml@OzTeX#1{%
1920   \HoLogoCss@OzTeX
1921   \Hologo@Span{OzTeX}{%
1922     O%
1923     \Hologo@Span{z}{z}%
1924     \hologo{TeX}%
1925   }%
1926 }

```

\HoLogoCss@OzTeX

```

1927 \def\HoLogoCss@OzTeX{%
1928   \Css{%
1929     span.HoLogo-OzTeX span.HoLogo-z{%
1930       margin-left:-.03em;%
1931       margin-right:-.15em;%
1932     }%
1933   }%
1934   \global\let\HoLogoCss@OzTeX\relax
1935 }

```

\HoLogo@OzMF

```

1936 \def\HoLogo@OzMF#1{%
1937   \Hologo@mbbox{OzMF}%
1938 }

```

\HoLogo@OzMP

```

1939 \def\HoLogo@OzMP#1{%
1940   \Hologo@mbbox{OzMP}%
1941 }

```

\HoLogo@OzTtH

```

1942 \def\HoLogo@OzTtH#1{%
1943   \Hologo@mbbox{OzTtH}%
1944 }

```



### 2.9.25 PCT<sub>E</sub>X

\HoLogo@PCTeX

```
1945 \def\HoLogo@PCTeX#1{%
1946   \HOLOGO@mbbox{PC}%
1947   \hologo{TeX}%
1948 }
```

\HoLogoHtml@PCTeX

```
1949 \let\HoLogoHtml@PCTeX\HoLogo@PCTeX
```

### 2.9.26 P<sub>I</sub>CT<sub>E</sub>X

The original definitions from `pictex.tex` [7]:

```
\def\PiC{%
  P%
  \kern-.12em%
  \lower.5ex\hbox{I}%
  \kern-.075em%
  C%
}
\def\PiCTeX{%
  \PiC
  \kern-.11em%
  \TeX
}
```

\HoLogo@PiC

```
1950 \def\HoLogo@PiC#1{%
1951   P%
1952   \kern-.12em%
1953   \lower.5ex\hbox{I}%
1954   \kern-.075em%
1955   C%
1956   \HOLOGO@SpaceFactor
1957 }
```

\HoLogoHtml@PiC

```
1958 \def\HoLogoHtml@PiC#1{%
1959   \HoLogoCss@PiC
1960   \HOLOGO@Span{PiC}{%
1961     P%
1962     \HOLOGO@Span{i}{I}%
1963     C%
1964   }%
1965 }
```

\HoLogoCss@PiC

```
1966 \def\HoLogoCss@PiC{%
1967   \Css{%
1968     span.HoLogo-PiC span.HoLogo-i{%
1969       position:relative;%
1970       top:.5ex;%
1971       margin-left:-.12em;%
1972       margin-right:-.075em;%
1973       text-decoration:none;%
1974     }%
1975   }%
1976   \global\let\HoLogoCss@PiC\relax
1977 }
```

\HoLogo@PiCTeX

```
1978 \def\HoLogo@PiCTeX#1{%
1979   \hologo{PiC}%
1980   \HOLOGO@discretionary
1981   \kern-.11em%
1982   \hologo{TeX}%
1983 }
```

\HoLogoHtml@PiCTeX

```
1984 \def\HoLogoHtml@PiCTeX#1{%
1985   \HoLogoCss@PiCTeX
1986   \HOLOGO@Span{PiCTeX}{%
1987     \hologo{PiC}%
1988     \hologo{TeX}%
1989   }%
1990 }
```

\HoLogoCss@PiCTeX

```
1991 \def\HoLogoCss@PiCTeX{%
1992   \Css{%
1993     span.HoLogo-PiCTeX span.HoLogo-PiC{%
1994       margin-right:-.11em;%
1995     }%
1996   }%
1997   \global\let\HoLogoCss@PiCTeX\relax
1998 }
```

## 2.9.27 teTeX

\HoLogo@teTeX

```
1999 \def\HoLogo@teTeX#1{%
2000   \HOLOGO@mbbox{#1{t}{T}e}%
2001   \HOLOGO@discretionary
2002   \hologo{TeX}%
2003 }
```

\HoLogoCs@teTeX

```
2004 \def\HoLogoCs@teTeX#1{#1{t}{T}dfTeX}
```

\HoLogoBkm@teTeX

```
2005 \def\HoLogoBkm@teTeX#1{%
2006   #1{t}{T}e\hologo{TeX}%
2007 }
```

\HoLogoHtml@teTeX

```
2008 \let\HoLogoHtml@teTeX\HoLogo@teTeX
```

## 2.9.28 TeX4ht

\HoLogo@TeX4ht

```
2009 \expandafter\def\csname HoLogo@TeX4ht\endcsname#1{%
2010   \HOLOGO@mbbox{\hologo{TeX}4ht}%
2011 }
```

\HoLogoHtml@TeX4ht

```
2012 \expandafter
2013 \let\csname HoLogoHtml@TeX4ht\expandafter\endcsname
2014 \csname HoLogo@TeX4ht\endcsname
```

## 2.9.29 SageTeX

\HoLogo@SageTeX

```
2015 \def\HoLogo@SageTeX#1{%
2016 \HOLOGO@mbox{Sage}%
2017 \HOLOGO@discretionary
2018 \HOLOGO@NegativeKerning{eT,oT,To}%
2019 \hologo{TeX}%
2020 }
```

\HoLogoHtml@SageTeX

```
2021 \let\HoLogoHtml@SageTeX\HoLogo@SageTeX
```

## 2.10 METAFONT and friends

\HoLogo@METAFONT

```
2022 \def\HoLogo@METAFONT#1{%
2023 \HoLogoFont@font{METAFONT}{logo}{%
2024 \HOLOGO@mbox{META}%
2025 \HOLOGO@discretionary
2026 \HOLOGO@mbox{FONT}%
2027 }%
2028 }
```

\HoLogo@METAPOST

```
2029 \def\HoLogo@METAPOST#1{%
2030 \HoLogoFont@font{METAPOST}{logo}{%
2031 \HOLOGO@mbox{META}%
2032 \HOLOGO@discretionary
2033 \HOLOGO@mbox{POST}%
2034 }%
2035 }
```

\HoLogo@MetaFun

```
2036 \def\HoLogo@MetaFun#1{%
2037 \HOLOGO@mbox{Meta}%
2038 \HOLOGO@discretionary
2039 \HOLOGO@mbox{Fun}%
2040 }
```

\HoLogo@MetaPost

```
2041 \def\HoLogo@MetaPost#1{%
2042 \HOLOGO@mbox{Meta}%
2043 \HOLOGO@discretionary
2044 \HOLOGO@mbox{Post}%
2045 }
```

## 2.11 Others

### 2.11.1 biber

\HoLogo@biber

```
2046 \def\HoLogo@biber#1{%
2047 \HOLOGO@mbox{#1{b}{B}i}%
2048 \HOLOGO@discretionary
2049 \HOLOGO@mbox{ber}%
2050 }
```

\HoLogoCs@biber

```
2051 \def\HoLogoCs@biber#1{#1{b}{B}iber}
```

\HoLogoBkm@biber

```
2052 \def\HoLogoBkm@biber#1{%  
2053   #1{b}{B}iber%  
2054 }
```

\HoLogoHtml@biber

```
2055 \let\HoLogoHtml@biber\HoLogo@biber
```

### 2.11.2 KOMA-Script

\HoLogo@KOMAScript The definition for KOMA-Script is taken from KOMA-Script (scrlogo.dtx, reformatted) [8]:

```
\@ifundefined{KOMAScript}{%  
  \DeclareRobustCommand{\KOMAScript}{%  
    \textsf{%  
      K\kern.05em O\kern.05emM\kern.05em A%  
      \kern.1em-\kern.1em %  
      Script%  
    }%  
  }%  
}{}
```

```
2056 \def\HoLogo@KOMAScript#1{%  
2057   \HoLogoFont@font{KOMAScript}{sf}{%  
2058     \HOLOGO@mbox{%  
2059       K\kern.05em%  
2060       O\kern.05em%  
2061       M\kern.05em%  
2062       A%  
2063     }%  
2064     \kern.1em%  
2065     \HOLOGO@hyphen  
2066     \kern.1em%  
2067     \HOLOGO@mbox{Script}%  
2068   }%  
2069 }
```

\HoLogoBkm@KOMAScript

```
2070 \def\HoLogoBkm@KOMAScript#1{%  
2071   KOMA-Script%  
2072 }
```

\HoLogoHtml@KOMAScript

```
2073 \def\HoLogoHtml@KOMAScript#1{%  
2074   \HoLogoCss@KOMAScript  
2075   \HoLogoFont@font{KOMAScript}{sf}{%  
2076     \HOLOGO@Span{KOMAScript}{%  
2077       K%  
2078       \HOLOGO@Span{O}{O}%  
2079       M%  
2080       \HOLOGO@Span{A}{A}%  
2081       \HOLOGO@Span{hyphen}{-}%  
2082       Script%  
2083     }%  
2084   }%  
2085 }
```

\HoLogoCss@KOMAScript

```
2086 \def\HoLogoCss@KOMAScript{%  
2087   \Css{%  
2088     span.HoLogo-KOMAScript{%
```

```

2089     font-family:sans-serif;%
2090 }%
2091 }%
2092 \Css{%
2093     span.HoLogo-KOMAScript span.HoLogo-O{%
2094         padding-left:.05em;%
2095         padding-right:.05em;%
2096     }%
2097 }%
2098 \Css{%
2099     span.HoLogo-KOMAScript span.HoLogo-A{%
2100         padding-left:.05em;%
2101     }%
2102 }%
2103 \Css{%
2104     span.HoLogo-KOMAScript span.HoLogo-hyphen{%
2105         padding-left:.1em;%
2106         padding-right:.1em;%
2107     }%
2108 }%
2109 \global\let\HoLogoCss@KOMAScript\relax
2110 }

```

### 2.11.3 LyX

\HoLogo@LyX The definition is taken from the documentation source files of LyX, Intro.lyx [5]:

```

\def\LyX{%
    \texorpdfstring{%
        L\kern-.1667em\lower.25em\hbox{Y}\kern-.125emX\@%
    }{%
        LyX%
    }%
}

2111 \def\HoLogo@LyX#1{%
2112     L%
2113     \kern-.1667em%
2114     \lower.25em\hbox{Y}%
2115     \kern-.125em%
2116     X%
2117     \Hologo@SpaceFactor
2118 }

```

\HoLogoHtml@LyX

```

2119 \def\HoLogoHtml@LyX#1{%
2120     \HoLogoCss@LyX
2121     \Hologo@Span{LyX}{%
2122         L%
2123         \Hologo@Span{y}{Y}%
2124         X%
2125     }%
2126 }

```

\HoLogoCss@LyX

```

2127 \def\HoLogoCss@LyX{%
2128     \Css{%
2129         span.HoLogo-LyX span.HoLogo-y{%
2130             position:relative;%
2131             top:.25em;%
2132             margin-left:-.1667em;%
2133             margin-right:-.125em;%
2134             text-decoration:none;%

```

```

2135 }%
2136 }%
2137 \global\let\HoLogoCss@LyX\relax
2138 }

```

#### 2.11.4 $\mathcal{N}\mathcal{S}$

\HoLogo@NTS Definition for  $\mathcal{N}\mathcal{S}$  can be found in package `etex_man` for the  $\epsilon$ -T<sub>E</sub>X manual [3] and in package `dtklogos` [2]:

```

\def\NTS{%
  \leavevmode
  \hbox{%
    $%
    \cal N%
    \kern-0.35em%
    \lower0.5ex\hbox{$\cal T$}%
    \kern-0.2em%
    S%
    $%
  }%
}

2139 \def\HoLogo@NTS#1{%
2140   \HoLogoFont@font{NTS}{sy}{%
2141     N\/%
2142     \kern-.35em%
2143     \lower.5ex\hbox{T\/%}
2144     \kern-.2em%
2145     S\/%
2146   }%
2147   \HOLOGO@SpaceFactor
2148 }

```

#### 2.11.5 T<sub>T</sub>H (T<sub>E</sub>X to HTML translator)

Source: <http://hutchinson.belmont.ma.us/tth/> In the HTML source the second ‘T’ is printed as subscript.

T<sub>T</sub>H

\HoLogo@TTH

```

2149 \def\HoLogo@TTH#1{%
2150   \ltx@mbox{%
2151     T\HOLOGO@SubScript{T}H%
2152   }%
2153   \HOLOGO@SpaceFactor
2154 }

```

\HoLogoHtml@TTH

```

2155 \def\HoLogoHtml@TTH#1{%
2156   T\HCode{<sub>}T\HCode{</sub>}H%
2157 }

```

#### 2.11.6 Hàn Thế Thành

Partial source: Package `dtklogos`. The double accent is U+1EBF (latin small letter e with circumflex and acute).

\HoLogo@HanTheThanh

```

2158 \def\HoLogo@HanTheThanh#1{%
2159   \ltx@mbox{H\`an}%
2160   \HOLOGO@space

```

```

2161 \ltx@mbox{%
2162   Th%
2163   \HOLOGO@ifCharExists{"1EBF"}{%
2164     \char"1EBF\relax
2165   }{%
2166     \e\hbox to 0pt{\hss\raise .5ex\hbox{'{}}}%
2167   }%
2168 }%
2169 \HOLOGO@space
2170 \ltx@mbox{Th\`anh}%
2171 }

```

\HoLogoBkm@HanTheThanh

```

2172 \def\HoLogoBkm@HanTheThanh#1{%
2173   H\`an %
2174   Th\HOLOGO@PdfdocUnicode{\^e}{\9036\277} %
2175   Th\`anh%
2176 }

```

\HoLogoHtml@HanTheThanh

```

2177 \def\HoLogoHtml@HanTheThanh#1{%
2178   H\`an %
2179   Th\HCode{&\ltx@hashchar x1ebf;} %
2180   Th\`anh%
2181 }

```

## 2.12 Driver detection

```

2182 \HOLOGO@ifExists\InputIfFileExists{%
2183   \InputIfFileExists{hologo.cfg}{-}{-}%
2184 }{%
2185   \ltx@ifUndefined{pdf@filesize}{%
2186     \def\HOLOGO@InputIfExists{%
2187       \openin\HOLOGO@temp=hologo.cfg\relax
2188       \ifeof\HOLOGO@temp
2189         \closein\HOLOGO@temp
2190       \else
2191         \closein\HOLOGO@temp
2192       \begingroup
2193         \def\x{LaTeX2e}%
2194       \expandafter\endgroup
2195       \ifx\fmtname\x
2196         \input{hologo.cfg}%
2197       \else
2198         \input hologo.cfg\relax
2199       \fi
2200     \fi
2201   }%
2202   \ltx@ifUndefined{newread}{%
2203     \chardef\HOLOGO@temp=15 %
2204     \def\HOLOGO@CheckRead{%
2205       \ifeof\HOLOGO@temp
2206         \HOLOGO@InputIfExists
2207       \else
2208         \ifcase\HOLOGO@temp
2209           \@PackageWarningNoLine{hologo}{%
2210             Configuration file ignored, because\MessageBreak
2211             a free read register could not be found%
2212           }%
2213         \else
2214           \begingroup
2215           \count\ltx@cclv=\HOLOGO@temp

```

```

2216         \advance\ltx@cclv by \ltx@minusone
2217         \edef\x{\endgroup
2218         \chardef\noexpand\HOLOGO@temp=\the\count\ltx@cclv
2219         \relax
2220         }%
2221         \x
2222         \fi
2223         \fi
2224         }%
2225     }{%
2226         \csname newread\endcsname\HOLOGO@temp
2227         \HOLOGO@InputIfExists
2228         }%
2229     }{%
2230         \edef\HOLOGO@temp{\pdf@filesize{hologo.cfg}}%
2231         \ifx\HOLOGO@temp\ltx@empty
2232         \else
2233             \ifnum\HOLOGO@temp>0 %
2234                 \begingroup
2235                     \def\x{LaTeX2e}%
2236                     \expandafter\endgroup
2237                     \ifx\fmtname\x
2238                         \input{hologo.cfg}%
2239                     \else
2240                         \input hologo.cfg\relax
2241                     \fi
2242                 \else
2243                     \@PackageInfoNoLine{hologo}{%
2244                     Empty configuration file `hologo.cfg' ignored%
2245                     }%
2246                 \fi
2247             \fi
2248         }%
2249     }

2250 \def\HOLOGO@temp#1#2{%
2251     \kv@define@key{HoLogoDriver}{#1}[]{}%
2252     \begingroup
2253         \def\HOLOGO@temp{##1}%
2254         \ltx@onelevel@sanitize\HOLOGO@temp
2255         \ifx\HOLOGO@temp\ltx@empty
2256         \else
2257             \@PackageError{hologo}{%
2258             Value (\HOLOGO@temp) not permitted for option `#1'%
2259             }%
2260             \@ehc
2261         \fi
2262     \endgroup
2263     \def\hologoDriver{#2}%
2264 }%
2265 }%
2266 \def\HOLOGO@@temp#1#2{%
2267     \ifx\kv@value\relax
2268         \HOLOGO@temp{#1}{#1}%
2269     \else
2270         \HOLOGO@temp{#1}{#2}%
2271     \fi
2272 }%
2273 \kv@parse@normalized{%
2274     pdftex,%
2275     luatex=pdftex,%
2276     dvipdfm,%
2277     dvipdfmx=dvipdfm,%

```



```

2278 dvips,%
2279 dvipsone=dvips,%
2280 xdvi=dvips,%
2281 xetex,%
2282 vtex,%
2283 }\HOLOGO@@temp

2284 \kv@define@key{HoLogoDriver}{driverfallback}{%
2285 \def\HOLOGO@DriverFallback{#1}%
2286 }

\HOLOGO@DriverFallback
2287 \def\HOLOGO@DriverFallback{dvips}

\hologoDriverSetup
2288 \def\hologoDriverSetup{%
2289 \let\hologoDriver\ltx@undefined
2290 \HOLOGO@DriverSetup
2291 }

\HOLOGO@DriverSetup
2292 \def\HOLOGO@DriverSetup#1{%
2293 \kvsetkeys{HoLogoDriver}{#1}%
2294 \HOLOGO@CheckDriver
2295 \ltx@ifundefined{hologoDriver}{%
2296 \begingroup
2297 \edef\x{\endgroup
2298 \noexpand\kvsetkeys{HoLogoDriver}{\HOLOGO@DriverFallback}%
2299 }\x
2300 }{}%
2301 \@PackageInfoNoLine{hologo}{Using driver ``\hologoDriver'}%
2302 }

\HOLOGO@CheckDriver
2303 \def\HOLOGO@CheckDriver{%
2304 \ifpdf
2305 \def\hologoDriver{pdftex}%
2306 \let\HOLOGO@pdfliteral\pdfliteral
2307 \ifluatex
2308 \ifx\pdfextension\@undefined\else
2309 \protected\def\pdfliteral{\pdfextension literal}%
2310 \let\HOLOGO@pdfliteral\pdfliteral
2311 \fi
2312 \ltx@ifundefined{HOLOGO@pdfliteral}{%
2313 \ifnum\luatexversion<36 %
2314 \else
2315 \begingroup
2316 \let\HOLOGO@temp\endgroup
2317 \ifcase0%
2318 \directlua{%
2319 if tex.enableprimitives then %
2320 tex.enableprimitives('HOLOGO@', {'pdfliteral'})%
2321 else %
2322 tex.print('1')%
2323 end%
2324 }%
2325 \ifx\HOLOGO@pdfliteral\@undefined 1\fi%
2326 \relax%
2327 \endgroup
2328 \let\HOLOGO@temp\relax
2329 \global\let\HOLOGO@pdfliteral\HOLOGO@pdfliteral
2330 \fi%
2331 \HOLOGO@temp

```

```

2332     \fi
2333   }{}%
2334 \fi
2335 \ltx@ifundefined{HOLOGO@pdfliteral}{%
2336   \@PackageWarningNoLine{hologo}{%
2337     Cannot find \string\pdfliteral
2338   }%
2339 }{}%
2340 \else
2341   \ifxetex
2342     \def\hologoDriver{xetex}%
2343   \else
2344     \ifvtex
2345       \def\hologoDriver{vtex}%
2346     \fi
2347   \fi
2348 \fi
2349 }

```

GO@WarningUnsupportedDriver

```

2350 \def\HOLOGO@WarningUnsupportedDriver#1{%
2351   \@PackageWarningNoLine{hologo}{%
2352     Logo `#1' needs driver specific macros,\MessageBreak
2353     but driver `\hologoDriver' is not supported.\MessageBreak
2354     Use a different driver or\MessageBreak
2355     load package `graphics' or `pgf'%
2356   }%
2357 }

```

### 2.12.1 Reflect box macros

Skip driver part if not needed.

```

2358 \ltx@ifundefined{reflectbox}{}{}%
2359 \ltx@ifundefined{rotatebox}{}{}%
2360 \HOLOGO@AtEnd
2361 }%
2362 }
2363 \ltx@ifundefined{pgftext}{}{}%
2364 \HOLOGO@AtEnd
2365 }
2366 \ltx@ifundefined{psscalebox}{}{}%
2367 \HOLOGO@AtEnd
2368 }
2369 \def\HOLOGO@temp{LaTeX2e}
2370 \ifx\fmtname\HOLOGO@temp
2371   \RequirePackage{kvoptions}[2011/06/30]%
2372   \ProcessKeyvalOptions{HoLogoDriver}%
2373 \fi
2374 \HOLOGO@DriverSetup{}

```

\HOLOGO@ReflectBox

```

2375 \def\HOLOGO@ReflectBox#1{%
2376   \begingroup
2377   \setbox\ltx@zero\hbox{\begingroup#1\endgroup}%
2378   \setbox\ltx@two\hbox{%
2379     \kern\wd\ltx@zero
2380     \csname HOLOGO@ScaleBox@\hologoDriver\endcsname{-1}{1}{%
2381       \hbox to 0pt{\copy\ltx@zero\hss}%
2382     }%
2383   }%
2384   \wd\ltx@two=\wd\ltx@zero
2385   \box\ltx@two

```

```

2386 \endgroup
2387 }

```

\HOLOGO@PointReflectBox

```

2388 \def\HOLOGO@PointReflectBox#1{%
2389 \begingroup
2390 \setbox\ltx@zero\hbox{\begingroup#1\endgroup}%
2391 \setbox\ltx@two\hbox{%
2392 \kern\wd\ltx@zero
2393 \raise\ht\ltx@zero\hbox{%
2394 \csname HOLOGO@ScaleBox@\hologoDriver\endcsname{-1}{-1}{%
2395 \hbox to 0pt{\copy\ltx@zero\hss}%
2396 }%
2397 }%
2398 }%
2399 \wd\ltx@two=\wd\ltx@zero
2400 \box\ltx@two
2401 \endgroup
2402 }

```

We must define all variants because of dynamic driver setup.

```

2403 \def\HOLOGO@temp#1#2{#2}

```

\HOLOGO@ScaleBox@pdftex

```

2404 \HOLOGO@temp{pdftex}{%
2405 \def\HOLOGO@ScaleBox@pdftex#1#2#3{%
2406 \HOLOGO@pdfliteral{%
2407 q #1 0 0 #2 0 0 cm%
2408 }%
2409 #3%
2410 \HOLOGO@pdfliteral{%
2411 Q%
2412 }%
2413 }%
2414 }

```

\HOLOGO@ScaleBox@dvips

```

2415 \HOLOGO@temp{dvips}{%
2416 \def\HOLOGO@ScaleBox@dvips#1#2#3{%
2417 \special{ps:%
2418 gsave %
2419 currentpoint %
2420 currentpoint translate %
2421 #1 #2 scale %
2422 neg exch neg exch translate%
2423 }%
2424 #3%
2425 \special{ps:%
2426 currentpoint %
2427 grestore %
2428 moveto%
2429 }%
2430 }%
2431 }

```

\HOLOGO@ScaleBox@dvipdfm

```

2432 \HOLOGO@temp{dvipdfm}{%
2433 \let\HOLOGO@ScaleBox@dvipdfm\HOLOGO@ScaleBox@dvips
2434 }

```

Since X<sub>Y</sub>TeX v0.6.

\HOLGO@ScaleBox@xetex

```
2435 \HOLGO@temp{xetex}{%  
2436 \def\HOLGO@ScaleBox@xetex#1#2#3{%  
2437 \special{x:gsave}%  
2438 \special{x:scale #1 #2}%  
2439 #3%  
2440 \special{x:grestore}%  
2441 }%  
2442 }
```

\HOLGO@ScaleBox@vtex

```
2443 \HOLGO@temp{vtex}{%  
2444 \def\HOLGO@ScaleBox@vtex#1#2#3{%  
2445 \special{r(#1,0,0,#2,0,0}%  
2446 #3%  
2447 \special{r)}}%  
2448 }%  
2449 }
```

```
2450 \HOLGO@AtEnd%  
2451 \</package>
```

## 3 Test

### 3.1 Catcode checks for loading

```
2452 \<*test1>  
2453 \catcode`\{=1 %  
2454 \catcode`\}=2 %  
2455 \catcode`\#=6 %  
2456 \catcode`\@=11 %  
2457 \expandafter\ifx\csname count@\endcsname\relax  
2458 \countdef\count@=255 %  
2459 \fi  
2460 \expandafter\ifx\csname @gobble\endcsname\relax  
2461 \long\def\@gobble#1{%  
2462 \fi  
2463 \expandafter\ifx\csname @firstofone\endcsname\relax  
2464 \long\def\@firstofone#1{#1}%  
2465 \fi  
2466 \expandafter\ifx\csname loop\endcsname\relax  
2467 \expandafter\@firstofone  
2468 \else  
2469 \expandafter\@gobble  
2470 \fi  
2471 {%  
2472 \def\loop#1\repeat{%  
2473 \def\body{#1}%  
2474 \iterate  
2475 }%  
2476 \def\iterate{%  
2477 \body  
2478 \let\next\iterate  
2479 \else  
2480 \let\next\relax  
2481 \fi  
2482 \next  
2483 }%  
2484 \let\repeat=\fi  
2485 }%  
2486 \def\RestoreCatcodes{}
```

```

2487 \count@=0 %
2488 \loop
2489 \edef\RestoreCatcodes{%
2490 \RestoreCatcodes
2491 \catcode\the\count@=\the\catcode\count@\relax
2492 }%
2493 \ifnum\count@<255 %
2494 \advance\count@ 1 %
2495 \repeat
2496
2497 \def\RangeCatcodeInvalid#1#2{%
2498 \count@=#1\relax
2499 \loop
2500 \catcode\count@=15 %
2501 \ifnum\count@<#2\relax
2502 \advance\count@ 1 %
2503 \repeat
2504 }
2505 \def\RangeCatcodeCheck#1#2#3{%
2506 \count@=#1\relax
2507 \loop
2508 \ifnum#3=\catcode\count@
2509 \else
2510 \errmessage{%
2511 Character \the\count@\space
2512 with wrong catcode \the\catcode\count@\space
2513 instead of \number#3%
2514 }%
2515 \fi
2516 \ifnum\count@<#2\relax
2517 \advance\count@ 1 %
2518 \repeat
2519 }
2520 \def\space{ }
2521 \expandafter\ifx\csname LoadCommand\endcsname\relax
2522 \def\LoadCommand{\input hologo.sty\relax}%
2523 \fi
2524 \def\Test{%
2525 \RangeCatcodeInvalid{0}{47}%
2526 \RangeCatcodeInvalid{58}{64}%
2527 \RangeCatcodeInvalid{91}{96}%
2528 \RangeCatcodeInvalid{123}{255}%
2529 \catcode`\@=12 %
2530 \catcode`\|=0 %
2531 \catcode`\%=14 %
2532 \LoadCommand
2533 \RangeCatcodeCheck{0}{36}{15}%
2534 \RangeCatcodeCheck{37}{37}{14}%
2535 \RangeCatcodeCheck{38}{47}{15}%
2536 \RangeCatcodeCheck{48}{57}{12}%
2537 \RangeCatcodeCheck{58}{63}{15}%
2538 \RangeCatcodeCheck{64}{64}{12}%
2539 \RangeCatcodeCheck{65}{90}{11}%
2540 \RangeCatcodeCheck{91}{91}{15}%
2541 \RangeCatcodeCheck{92}{92}{0}%
2542 \RangeCatcodeCheck{93}{96}{15}%
2543 \RangeCatcodeCheck{97}{122}{11}%
2544 \RangeCatcodeCheck{123}{255}{15}%
2545 \RestoreCatcodes
2546 }
2547 \Test
2548 \csname @@end\endcsname

```

```

2549 \end
2550 </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.

```

2551 <*test-spacefactor>
2552 \NeedsTeXFormat{LaTeX2e}
2553 \documentclass{article}
2554 \usepackage{hologo}[2017/05/01]
2555 \usepackage{kvsetkeys}
2556 \usepackage{qstest}
2557 \IncludeTests{*}
2558 \LogTests{log}{*}{*}
2559 \begin{document}
2560 \begin{qstest}{spacefactor}{spacefactor}
2561 \newcommand*{\Test}[1]{%
2562   \sbox0{%
2563     \hologo{#1}%
2564     \Expect*{1000 (#1)}*{\the\spacefactor\space(#1)}%
2565   }%
2566 }%
2567 \makeatletter
2568 \def\TestList{}
2569 \def\hologoEntry#1#2#3{%
2570   \edef\TestList{%
2571     \ifx\TestList\@empty
2572     \else
2573       \TestList,%
2574     \fi
2575     #1%
2576     \ifx\#2\%
2577     \else
2578       ={variant=#2}%
2579     \fi
2580   }%
2581 }
2582 \hologoList
2583 \expandafter\kv@parse@normalized\expandafter{%
2584   \TestList
2585 }{%
2586   \begingroup
2587   \let\@logo=\kv@key
2588   \ifx\kv@value\relax
2589   \else
2590     \expandafter\hologoLogoSetup\expandafter\@logo\expandafter{%
2591       \kv@value
2592     }%
2593   \fi
2594   \Test\@logo
2595 \endgroup
2596 \@gobbletwo
2597 }
2598 \end{qstest}
2599 \end{document}
2600 </test-spacefactor>

```

### 3.3 Complete list

```

2601 <*test-list>
2602 \NeedsTeXFormat{LaTeX2e}
2603 \documentclass[12pt,a4paper]{article}
2604 \usepackage{hologo}[2017/05/01]
2605 \usepackage[T1]{fontenc}
2606 \usepackage{lmodern}
2607 \usepackage{parskip}
2608 \usepackage[unicode]{hyperref}[2011/09/28]
2609 \usepackage{bookmark}[2011/09/19]
2610 \bookmarksetup{%
2611   numbered,%
2612   open,%
2613   openlevel=2,%
2614 }
2615 \renewcommand*{\contentsname}{List of logos}
2616 \begin{document}
2617 \tableofcontents
2618 \def\TestFont#1#2#3#4#5#6{%
2619   \begingroup
2620     \usefont{#3}{#4}{#5}{#6}%
2621     \HologoVariant{#1}{#2}/\hologoVariant{#1}{#2}%
2622     \quad
2623     \begingroup\scriptsize\hologoVariant{#1}{#2}\endgroup
2624     \quad
2625   \endgroup
2626   (#3/#4/#5/#6)%
2627   \par
2628 }
2629 \makeatletter
2630 \def\hologoEntry#1#2#3{%
2631   \section{%
2632     \HologoVariant{#1}{#2}/\hologoVariant{#1}{#2} %
2633     {[#1\ifx\#2\else\space(#2)\fi]}% hash-ok
2634   }% braces around [] because of bug in tex4ht
2635   \begingroup
2636     \hypersetup{unicode=false}%
2637     \bookmark[%
2638       dest=\@currentHref,%
2639       rellevel=1,%
2640       keeplevel,%
2641     ]{%
2642       \HologoVariant{#1}{#2}/\hologoVariant{#1}{#2} %
2643       (PDFDocEncoding)%
2644     }%
2645   \endgroup
2646   \TestFont{#1}{#2}{OT1}{cmr}{m}{n}%
2647   \TestFont{#1}{#2}{OT1}{cmss}{m}{n}%
2648   \TestFont{#1}{#2}{OT1}{cmr}{b}{n}%
2649   \TestFont{#1}{#2}{OT1}{cmr}{m}{it}%
2650   \TestFont{#1}{#2}{OT1}{cmtt}{m}{n}%
2651   \TestFont{#1}{#2}{T1}{lmr}{m}{n}%
2652   \TestFont{#1}{#2}{T1}{lmss}{m}{n}%
2653   \TestFont{#1}{#2}{T1}{lmr}{b}{n}%
2654   \TestFont{#1}{#2}{T1}{lmr}{m}{it}%
2655   \TestFont{#1}{#2}{T1}{lmtt}{m}{n}%
2656   \TestFont{#1}{#2}{T1}{lmvtt}{m}{n}%
2657   \TestFont{#1}{#2}{T1}{qtm}{m}{n}%
2658   \TestFont{#1}{#2}{T1}{qhv}{m}{n}%
2659   \TestFont{#1}{#2}{T1}{qtm}{b}{n}%
2660   \TestFont{#1}{#2}{T1}{qtm}{m}{it}%
2661   \TestFont{#1}{#2}{T1}{qcr}{m}{n}%
2662   \newpage

```

```

2663 }
2664 \makeatother
2665 \hologoList
2666 \end{document}
2667 \end{test-list}

```

## 4 Installation

### 4.1 Download

**Package.** This package is available on CTAN<sup>1</sup>:

[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<sub>E</sub>X 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<sub>E</sub>X:

```
tex hologo.dtx
```

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

<code>hologo.sty</code>	→ <code>tex/generic/oberdiek/hologo.sty</code>
<code>hologo.pdf</code>	→ <code>doc/latex/oberdiek/hologo.pdf</code>
<code>example/hologo-example.tex</code>	→ <code>doc/latex/oberdiek/example/hologo-example.tex</code>
<code>test/hologo-test1.tex</code>	→ <code>doc/latex/oberdiek/test/hologo-test1.tex</code>
<code>test/hologo-test-spacefactor.tex</code>	→ <code>doc/latex/oberdiek/test/hologo-test-spacefactor.tex</code>
<code>test/hologo-test-list.tex</code>	→ <code>doc/latex/oberdiek/test/hologo-test-list.tex</code>
<code>hologo.dtx</code>	→ <code>source/latex/oberdiek/hologo.dtx</code>

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`.

---

<sup>1</sup><http://ctan.org/pkg/hologo>



## 4.4 Refresh file name databases

If your  $\text{T}_{\text{E}}\text{X}$  distribution (te $\text{T}_{\text{E}}\text{X}$ , mik $\text{T}_{\text{E}}\text{X}$ , ...) relies on file name databases, you must refresh these. For example, te $\text{T}_{\text{E}}\text{X}$  users run `texhash` or `mktextlsr`.

## 4.5 Some details for the interested

**Unpacking with  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ .** The `.dtx` chooses its action depending on the format:

**plain  $\text{T}_{\text{E}}\text{X}$ :** Run `docstrip` and extract the files.

**$\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ :** Generate the documentation.

If you insist on using  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$  for `docstrip` (really, `docstrip` does not need  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ ), 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 pdf $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ :

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

## 5 Catalogue

The following XML file can be used as source for the  [\$\text{T}\_{\text{E}}\text{X}\$  Catalogue](#). The elements `caption` and `description` are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is `hologo.xml`.

```
2668 <*catalogue>
2669 <?xml version='1.0' encoding='us-ascii'?>
2670 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
2671 <entry datestamp='$Date$' modifier='$Author$' id='hologo'>
2672   <name>hologo</name>
2673   <caption>A collection of logos with bookmark support.</caption>
2674   <authorref id='auth:oberdiek' />
2675   <copyright owner='Heiko Oberdiek' year='2010-2012' />
2676   <license type='lppl1.3' />
2677   <version number='1.10' />
2678   <description>
2679     The package defines a single command <tt>\hologo</tt>, whose
2680     argument is the usual case-confused ASCII version of the logo.
2681     The command is bookmark-enabled, so that every logo becomes
2682     available in bookmarks without further work.
2683   <p/>
2684   The package is part of the <xref refid='oberdiek'>oberdiek</xref>
2685   bundle.
2686 </description>
2687 <documentation details='Package documentation'
2688   href='ctan:/macros/latex/contrib/oberdiek/hologo.pdf' />
2689 <ctan file='true' path='/macros/latex/contrib/oberdiek/hologo.dtx' />
```

```

2690 <miktex location='oberdiek' />
2691 <texlive location='oberdiek' />
2692 <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip' />
2693 </entry>
2694 </catalogue>

```

## 6 References

- [1] Oren Patashnik, *BIB<sub>TEX</sub>ing*, 1988-02-08.  
[CTAN:biblio/bibtex/base/](#)
- [2] Gerd Neugebauer, DANTE, *Package dtklogos*, 2011-04-25.  
[CTAN:usergrps/dante/dtk/dtklogos.sty](#)
- [3] The  $\mathcal{N}\mathcal{T}\mathcal{S}$  Team, *The  $\varepsilon$ - $T_{\text{E}}\text{X}$  manual*, 1998-02.  
[CTAN:systems/e-tex/v2/doc/](#)
- [4] The  $\varepsilon_X\text{TEX}$  group,  *$\varepsilon_X\text{TEX}$ : FAQ – How is  $\varepsilon_X\text{TEX}$  typeset?*, 2007-04-14.  
<http://www.extex.org/documentation/faq.html>
- [5] The L<sup>A</sup>X Team, *L<sup>A</sup>X – The Document Processor*, 2011-05-08.  
<http://www.lyx.org/>
- [6] Andrew Trevorrow, *Oz<sub>TEX</sub> FAQ: What is the correct way to typeset “Oz<sub>TEX</sub>”?*, 2011-09-15 (visited).  
<http://www.trevorrow.com/oztex/ozfaq.html#oztex-logo>
- [7] Michael Wichura, *The P<sub>IC</sub><sub>TEX</sub> macro package*, 1987-09-21.  
[CTAN:graphics/pictex/](#)
- [8] Markus Kohm, *KOMA-Script Datei scrlogo.dtx*, 2009-01-30.  
[CTAN:install/macros/latex/contrib/komascript.tds.zip](#)

## 7 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<sup>A</sup><sub>TEX</sub>3 added.
- V<sub>TEX</sub> added.

### [2010/11/21 v1.3]

- ini<sub>TEX</sub>, vir<sub>TEX</sub> added.

[2011/03/25 v1.4]

- ConT<sub>E</sub>Xt with variants added.
- Option discretionarybreak added as refinement for option break.

[2011/04/21 v1.5]

- Wrong TDS directory for test files fixed.

[2011/10/01 v1.6]

- Support for package tex4ht added.
- Support for \csname added if \ifincsname is available.
- New logos: L<sup>A</sup>T<sub>E</sub>X, biber, BibT<sub>E</sub>X (sc, sf), emT<sub>E</sub>X,  $\varepsilon_X$ T<sub>E</sub>X, KOMA-Script, L<sub>A</sub>X, MiK<sub>T</sub><sub>E</sub>X,  $\mathcal{N}\mathcal{S}$ , OzMF, OzMP, OzT<sub>E</sub>X, OzTtH, PCT<sub>E</sub>X, P<sub>T</sub>C, P<sub>T</sub>CT<sub>E</sub>X, METAFONT, MetaFun, METAPOST, MetaPost, SLT<sub>E</sub>X (lift, narrow, simple), SLiT<sub>E</sub>X (narrow, simple, lift), teT<sub>E</sub>X.
- Fixes: iniT<sub>E</sub>X, pdfL<sup>A</sup>T<sub>E</sub>X, pdfT<sub>E</sub>X, virT<sub>E</sub>X.
- \hologoFontSetup and \hologoLogoFontSetup added.
- \hologoVariant and \HologoVariant added.

[2011/11/22 v1.7]

- New logos: BibT<sub>E</sub>X8, L<sup>A</sup>T<sub>E</sub>XML, SageT<sub>E</sub>X, T<sub>E</sub>X4ht, T<sub>T</sub>H.
- X<sub>Ǝ</sub> and friends: Driver stuff fixed.
- X<sub>Ǝ</sub> and friends: Support for italic added.
- X<sub>Ǝ</sub> and friends: Package support for pgf and pstricks added.

[2011/11/29 v1.8]

- New logos: Hàn Thế Thành.

[2011/12/21 v1.9]

- Patch for package ifxetex added for the case that \newif is undefined in iniT<sub>E</sub>X.
- Some fixes for iniT<sub>E</sub>X.

[2012/04/26 v1.10]

- Fix in bookmark version of logo “Hàn Thế Thành”.

[2016/05/12 v1.11]

- Update HOLOGO@ifCharExists (previously in texlive)
- define pdfliteral in current luatex.

[2016/05/16 v1.12]

- Documentation updates.

[2017/05/01 v1.13]

- Removing spurious comments in bibliography. (github PR from yudai-nkt)

## 8 Index

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<code>\x</code> . . . . .	136, 137, 140, 144, 148, 150, 173, 178, 188, 197, 209, 607, 609, 2193, 2195, 2217, 2221, 2235, 2237, 2297, 2299
<code>\XeTeXcharglyph</code> . . . . .	1473
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