

The `hologo` package

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Abstract

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

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1 Documentation

1.1 Logo macros

`\hologo {<name>}`

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

name	variant	logo	since
(La)TeX		(L)TeX	2011/10/01
AmSLaTeX		$\mathcal{A}\mathcal{M}\mathcal{S}$ -L ^A TeX	2010/04/16
AmSTeX		$\mathcal{A}\mathcal{M}\mathcal{S}$ -T _E X	2010/04/16
biber		biber	2011/10/01
BibTeX		BibTeX	2011/10/01
BibTeX	sf	BibTeX	2011/10/01
BibTeX	sc	BibTeX	2011/10/01
BibTeX8		BibTeX8	2011/11/22
ConTeXt		ConTeXt	2011/03/25
ConTeXt	narrow	ConTeXt	2011/03/25
ConTeXt	simple	ConTeXt	2011/03/25
emTeX		emTeX	2010/04/26
eTeX		ε -TeX	2010/04/08
ExTeX		ε_X TeX	2011/10/01
HanTheThanh		Hàn Thế Thành	2011/11/29
iniTeX		iniTeX	2011/10/01
KOMAScript		KOMA-Script	2011/10/01
La		L ^A	2010/05/08
LaTeX		L ^A TeX	2010/04/08
LaTeX2e		L ^A TeX 2 _{ε}	2010/04/08
LaTeX3		L ^A TeX3	2010/04/24
LaTeXe		L ^A TeX 2 _{ε}	2010/04/08
LaTeXML		L ^A TeXML	2011/11/22
LaTeXTeX		(L)TeX	2011/10/01
LuaLaTeX		LuaL ^A TeX	2010/04/08
LuaTeX		LuaTeX	2010/04/08
LyX		L ^Y 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		MiKTeX	2011/10/01
NTS		$\mathcal{N}\mathcal{T}\mathcal{S}$	2011/10/01
OzMF		OzMF	2011/10/01
OzMP		OzMP	2011/10/01
OzTeX		OzTeX	2011/10/01
OzTtH		OzTtH	2011/10/01
PCTeX		PCTeX	2011/10/01
pdfTeX		pdfTeX	2011/10/01
pdfLaTeX		pdfL ^A TeX	2011/10/01
PiC		P _I C	2011/10/01
PiCTeX		P _I CTeX	2011/10/01
plainTeX		plain T _E X	2010/04/08
plainTeX	space	plain T _E X	2010/04/16
plainTeX	hyphen	plain-T _E X	2010/04/16
plainTeX	runtogether	plainT _E X	2010/04/16
SageTeX		SageTeX	2011/11/22

name	variant	logo	since
SLiTeX		SU _{Li} TeX	2011/10/01
SLiTeX	lift	SU _{Li} TeX	2011/10/01
SLiTeX	narrow	SU _{Li} TeX	2011/10/01
SLiTeX	simple	SU _{Li} TeX	2011/10/01
SliTeX		SU _{Li} TeX	2011/10/01
SliTeX	narrow	SU _{Li} TeX	2011/10/01
SliTeX	simple	SU _{Li} TeX	2011/10/01
SliTeX	lift	SU _{Li} TeX	2011/10/01
teTeX		teTeX	2011/10/01
TeX		TeX	2010/04/08
TeX4ht		TeX4ht	2011/11/22
TTH		T _T H	2011/11/22
virTeX		virTeX	2011/10/01
VTeX		VTeX	2010/04/24
Xe		X _q	2010/04/08
XeLaTeX		X _q LaTeX	2010/04/08
XeTeX		X _q 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 `ε-TeX` and `εXTeX`.

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. X_{\square} TeX). 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, X_{\square} TeX, 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 ε_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 $\mathcal{A}\mathcal{M}\mathcal{S}$, $\mathcal{N}\mathcal{T}\mathcal{S}$, $\varepsilon_X\text{T}\text{E}\text{X}$.
- logo:** METAFONT and METAPOST are using that font. In $\text{L}\text{A}\text{T}\text{E}\text{X}$ `\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`.

<i><logo></i>	keys	result
BibTeX	bbsf	BIBTeX
BibTeX	sc	BIBTeX
ExTeX	rm	$\varepsilon_X\text{T}\text{E}\text{X}$
SlitEX	rm	SLITEX
AmS	sy	$\mathcal{A}\mathcal{M}\mathcal{S}$
ExTeX	sy	$\varepsilon_X\text{T}\text{E}\text{X}$
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.

`\hologoVariant {<name>} {<variant>}`
`\HologoVariant {<name>} {<variant>}`

Logo `<name>` is set using `<variant>` that specifies explicitly which variant of the logo 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, ...).

```
\hologoList
\hologoEntry {\langle logo \rangle} {\langle variant \rangle} {\langle since \rangle}
```

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^AT_EX's protection mechanism.
- Bookmarks of package `hyperref`.
- Package `tex4ht`.
- The macros can be used inside `\csname` constructs, if `\ifincsname` is available (pdfT_EX, X_YT_EX, LuaT_EX).

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}[2012/04/26]
11 \usepackage{longtable}
12 \usepackage{array}
13 \setlength{\extrarowheight}{2pt}
14 \usepackage[T1]{fontenc}
15 \usepackage{lmodern}
16 \usepackage{pdflscape}
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 \begingroup
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 \endgroup
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}{|l|l|l|}
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 </example>

```

2 Implementation

```
123 <*package>
```

Reload check, especially if the package is not used with \LaTeX .

```

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 [2012/04/26 v1.10 A logo collection with bookmark support (H0)]%
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{femTeX}{-}{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\HLOGO@DeclareBoolOption#1{%
381   \expandafter\chardef\csname HLOGOOPT@#1\endcsname\ltx@zero
382   \kv@define@key{HoLogo}{#1}[true]{%
383     \def\HLOGO@temp{##1}%
384     \ifx\HLOGO@temp\HLOGO@true
385       \ifx\HLOGO@name\relax
386         \expandafter\chardef\csname HLOGOOPT@#1\endcsname=\ltx@one
387       \else
388         \expandafter\chardef\csname
389           HoLogoOpt@#1@\HLOGO@name\endcsname\ltx@one
390       \fi
391     \HLOGO@SetBreakAll{#1}%
392   \else
393     \ifx\HLOGO@temp\HLOGO@false
394       \ifx\HLOGO@name\relax
395         \expandafter\chardef\csname HLOGOOPT@#1\endcsname=\ltx@zero
396       \else
397         \expandafter\chardef\csname
398           HoLogoOpt@#1@\HLOGO@name\endcsname=\ltx@zero
399       \fi
400     \HLOGO@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 }

```

\HLOGO@SetBreakAll

```

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

```

\HLOGO@true

```
431 \def\HLOGO@true{true}
```

\HLOGO@false

```
432 \def\HLOGO@false{false}
```

\HLOGO@break

```
433 \def\HLOGO@break{break}
```

```

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

438 \kv@define@key{HoLogo}{variant}{%
439   \ifx\Hologo@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\Hologo@temp{#1}%
447     \ifx\Hologo@temp\ltx@empty
448       \expandafter
449       \let\csname HoLogoOpt@variant@\Hologo@name\endcsname\@undefined
450     \else
451       \ltx@ifundefined{HoLogo@\Hologo@name @\Hologo@temp}{%
452         \@PackageError{hologo}{%
453           Unknown variant ``\Hologo@temp' of logo ``\Hologo@name'%
454         }\@ehc
455       }{%
456         \expandafter
457         \let\csname HoLogoOpt@variant@\Hologo@name\endcsname
458           \Hologo@temp
459       }%
460     \fi
461   \fi
462 }

```

\Hologo@Variant

```

463 \def\Hologo@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

\Hologo@space

```

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

\HoLogoFont@font

```

#1: logo name
#2: font short name
#3: text
535 \def\HoLogoFont@font#1#2#3{%
536 \begin{group}
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 T_EX the original small caps variant is used as default. In L^AT_EX 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{bibs}{\tensc}%
579 }{%
580   \HoLogoFont@Def{bibs}{%
581     $\mathsurround=0pt$%
582     \csname S@f@size\endcsname
583     \fontsize\sf@size{Opt}%
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{ifincname}{%
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@', {ifincname'})%
689 else %
690 tex.print('1')%
691 end%
692 }%
693 \ifx\HOLOGO@ifincname\undefined 1\fi%
694 \relax
695 \expandafter\ltx@firstofone
696 \else
697 \endgroup
698 \expandafter\ltx@gobble
699 \fi
700 {%
701 \global\let\ifincname\HOLOGO@ifincname
702 }%
703 \HOLOGO@temp
704 }%
705 }{%
706 }

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

```

\hologo

```

712 \def\hologo#1{%
713 $ \ifincname
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 $ \ifincsname
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 $ \ifincsname
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 $ \ifincsname
784 $ \ltx@ifundefined{HoLogoCs@#1@#2}{%
785 $ #1%
786 $ }{%
787 $ \csname HoLogoCs@#1@#2\endcsname\ltx@secondoftwo
788 $ }%
789 $ \else
```

```

790 \Hologo@IfExists\textorpdfstring\textorpdfstring\ltx@firstoftwo
791 {%
792 \HologoVariantRobust{#1}{#2}%
793 }{%
794 \ltx@ifundefined{HoLogoBkm@#1@#2}{%
795 \ltx@ifundefined{HoLogo@#1}{?#1?}{#1}%
796 }{%
797 \csname HoLogoBkm@#1@#2\endcsname
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 \csname HoLogo@\Hologo@Variant\Hologo@name\endcsname
825 \ltx@firstoftwo
826 }%
827 }{%
828 \ltx@IfUndefined{HoLogoHtml@\Hologo@Variant\Hologo@name}{%
829 \Hologo@name
830 }{%
831 \csname HoLogoHtml@\Hologo@Variant\Hologo@name\endcsname
832 \ltx@firstoftwo
833 }%
834 }%
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 \TeX or \LaTeX 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@IfExistsf@series{%
911     \if b\expandafter\ltx@car\f@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_EX and friends

2.9.1 T_EX

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

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

```

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_EX

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

```

1002 \def\HoLogo@plainTeX@space#1{%
1003   \HLOGO@mbbox{#1}{P}lain}\HLOGO@space\hologo{TeX}%
1004 }

```

\HoLogoCs@plainTeX@space

```

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

```

\HoLogoBkm@plainTeX@space

```

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

```

\HoLogoHtml@plainTeX@space

```

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

```

\HoLogo@plainTeX@hyphen

```

1012 \def\HoLogo@plainTeX@hyphen#1{%
1013   \HLOGO@mbbox{#1}{P}lain}\HLOGO@hyphen\hologo{TeX}%
1014 }

```

\HoLogoCs@plainTeX@hyphen

```

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

```

\HoLogoBkm@plainTeX@hyphen

```

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

```

\HoLogoHtml@plainTeX@hyphen

```

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

```

\HoLogo@plainTeX@runtogether

```

1022 \def\HoLogo@plainTeX@runtogether#1{%
1023   \HLOGO@mbbox{#1}{P}lain\hologo{TeX}%
1024 }

```

\HoLogoCs@plainTeX@runtogether

```

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

```

\HoLogoBkm@plainTeX@runtogether

```

1026 \def\HoLogoBkm@plainTeX@runtogether#1{%
1027   #1}{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^AT_EX

Source: L^AT_EX kernel.

```
\DeclareRobustCommand{\LaTeX}{%  
L%  
\kern-.36em%  
{%  
  \sbox\z@ T%  
  \vbox to\ht\z@{%  
    \hbox{%  
      \check@mathfonts  
      \fontsize\sf@size\z@  
      \math@fontsfalse  
      \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{Opt}%  
1048 \math@fontsfalse\selectfont  
1049 }%  
1050 A%  
1051 }%  
1052 \vss  
1053 }%  
1054 \endgroup  
1055 }
```

\HoLogo@LaTeX Source: L^AT_EX 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^A)T_EX

\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^AT_EX 2

```
\HoLogo@LaTeXe Source: LATEX 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{LaTeXe}{%
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-LaTeXe span.HoLogo-2{%
1173       padding-left:.15em;%
1174     }%
1175   }%
1176   \Css{%
1177     span.HoLogo-LaTeXe span.HoLogo-e{%
1178       position:relative;%
1179       top:.35ex;%
1180       text-decoration:none;%
1181     }%
1182   }%
1183 }
```

```

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^AT_EX3

\HoLogo@LaTeX3 Source: L^AT_EX 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^AT_EX_{xml}

\HoLogo@LaTeXXML

```

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

```

\HoLogoHtml@pdfLaTeX

```

1215 \def\HoLogoHtml@LaTeXXML#1{%
1216 \HOLOGO@Span{LaTeXXML}{%
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 -T_EX

\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@embox{%
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@embox{%
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@mbbox{%
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@mbbox{%
1347       S%
1348       \kern-.06em%
1349       \HoLogoFont@font{SLiTeX}{sc}{%
1350         l%
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 LuaT_EX

```

\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@mbbox{%
1405     Lua%
1406     \HOLOGO@NegativeKerning{aT,oT,To}%
1407     \hologo{TeX}%
1408   }%
1409 }

```

```

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

```

2.9.13 LuaL_AT_EX

```

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

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

```

2.9.14 X_YTeX, X_YL^AT_EX

\HLOGO@IfCharExists

```

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

```

```

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

```

\HoLogo@Xe Source: package dtklogos

```

1492 \def\HoLogo@Xe#1{%
1493 X%
1494 \kern-.1em\relax
1495 \HOLOGO@ifCharExists{"018E}{%
1496 \lower.5ex\hbox{\char"018E}%
1497 }{%
1498 \chardef\HOLOGO@choice=\ltx@zero
1499 \ifdim\fontdimen\ltx@one\font>0pt %
1500 \ltx@ifundefined{rotatebox}{%
1501 \ltx@ifundefined{pgftext}{%
1502 \ltx@ifundefined{psscalebox}{%
1503 \ltx@ifundefined{HOLOGO@ScaleBox@\holoDriver}{%
1504 }{%
1505 \chardef\HOLOGO@choice=4 %
1506 }%
1507 }{%
1508 \chardef\HOLOGO@choice=3 %
1509 }%
1510 }{%
1511 \chardef\HOLOGO@choice=2 %
1512 }%
1513 }{%
1514 \chardef\HOLOGO@choice=1 %
1515 }%
1516 \ifcase\HOLOGO@choice
1517 \HOLOGO@WarningUnsupportedDriver{Xe}%
1518 e%
1519 \or % 1: \rotatebox
1520 \begingroup
1521 \setbox\ltx@zero\hbox{\rotatebox{180}{E}}%
1522 \ltx@LocDimenA=\dp\ltx@zero
1523 \advance\ltx@LocDimenA by -.5ex\relax
1524 \raise\ltx@LocDimenA\box\ltx@zero
1525 \endgroup
1526 \or % 2: \pgftext
1527 \lower.5ex\hbox{%
1528 \pgfpicture
1529 \pgftext[rotate=180]{E}%
1530 \endpgfpicture
1531 }%
1532 \or % 3: \psscalebox
1533 \begingroup
1534 \setbox\ltx@zero\hbox{\psscalebox{-1 -1}{E}}%
1535 \ltx@LocDimenA=\dp\ltx@zero
1536 \advance\ltx@LocDimenA by -.5ex\relax
1537 \raise\ltx@LocDimenA\box\ltx@zero
1538 \endgroup

```

```

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

```

\HoLogoHtml@Xe

```

1589 \def\HoLogoHtml@Xe#1{%
1590     \HoLogoCss@Xe
1591     \HOLOGO@Span{Xe}{%
1592         X%
1593         \HOLOGO@Span{e}{%
1594             \HCode{&\ltx@hashchar x018e;}%
1595         }%
1596     }%
1597 }

```

\HoLogoCss@Xe

```

1598 \def\HoLogoCss@Xe{%
1599   \Css{%
1600     span.HoLogo-Xe span.HoLogo-e{%
1601       position:relative;%
1602       top:.5ex;%
1603       left-margin:-.1em;%
1604     }%
1605   }%
1606   \global\let\HoLogoCss@Xe\relax
1607 }

```

\HoLogo@XeTeX

```

1608 \def\HoLogo@XeTeX#1{%
1609   \hologo{Xe}%
1610   \kern-.15em\relax
1611   \hologo{TeX}%
1612 }

```

\HoLogoHtml@XeTeX

```

1613 \def\HoLogoHtml@XeTeX#1{%
1614   \HoLogoCss@XeTeX
1615   \HOLOGO@Span{XeTeX}{%
1616     \hologo{Xe}%
1617     \hologo{TeX}%
1618   }%
1619 }

```

\HoLogoCss@XeTeX

```

1620 \def\HoLogoCss@XeTeX{%
1621   \Css{%
1622     span.HoLogo-XeTeX span.HoLogo-TeX{%
1623       margin-left:-.15em;%
1624     }%
1625   }%
1626   \global\let\HoLogoCss@XeTeX\relax
1627 }

```

\HoLogo@XeLaTeX

```

1628 \def\HoLogo@XeLaTeX#1{%
1629   \hologo{Xe}%
1630   \kern-.13em%
1631   \hologo{LaTeX}%
1632 }

```

\HoLogoHtml@XeLaTeX

```

1633 \def\HoLogoHtml@XeLaTeX#1{%
1634   \HoLogoCss@XeLaTeX
1635   \HOLOGO@Span{XeLaTeX}{%
1636     \hologo{Xe}%
1637     \hologo{LaTeX}%
1638   }%
1639 }

```

\HoLogoCss@XeLaTeX

```

1640 \def\HoLogoCss@XeLaTeX{%
1641   \Css{%
1642     span.HoLogo-XeLaTeX span.HoLogo-Xe{%
1643       margin-right:-.13em;%
1644     }%
1645   }%
1646   \global\let\HoLogoCss@XeLaTeX\relax
1647 }

```


2.9.15 pdfTeX, pdfLaTeX

`\HoLogo@pdfTeX`

```
1648 \def\HoLogo@pdfTeX#1{%
1649   \HLOGO@mbbox{%
1650     #1{p}{P}df\hologo{TeX}%
1651   }%
1652 }
```

`\HoLogoCs@pdfTeX`

```
1653 \def\HoLogoCs@pdfTeX#1{#1{p}{P}dfTeX}
```

`\HoLogoBkm@pdfTeX`

```
1654 \def\HoLogoBkm@pdfTeX#1{%
1655   #1{p}{P}df\hologo{TeX}%
1656 }
```

`\HoLogoHtml@pdfTeX`

```
1657 \let\HoLogoHtml@pdfTeX\HoLogo@pdfTeX
```

`\HoLogo@pdfLaTeX`

```
1658 \def\HoLogo@pdfLaTeX#1{%
1659   \HLOGO@mbbox{%
1660     #1{p}{P}df\hologo{LaTeX}%
1661   }%
1662 }
```

`\HoLogoCs@pdfLaTeX`

```
1663 \def\HoLogoCs@pdfLaTeX#1{#1{p}{P}dfLaTeX}
```

`\HoLogoBkm@pdfLaTeX`

```
1664 \def\HoLogoBkm@pdfLaTeX#1{%
1665   #1{p}{P}df\hologo{LaTeX}%
1666 }
```

`\HoLogoHtml@pdfLaTeX`

```
1667 \let\HoLogoHtml@pdfLaTeX\HoLogo@pdfLaTeX
```

2.9.16 VTeX

`\HoLogo@VTeX`

```
1668 \def\HoLogo@VTeX#1{%
1669   \HLOGO@mbbox{%
1670     V\hologo{TeX}%
1671   }%
1672 }
```

`\HoLogoHtml@VTeX`

```
1673 \let\HoLogoHtml@VTeX\HoLogo@VTeX
```

2.9.17 AMS, ...

Source: class amsdtx

`\HoLogo@AmS`

```
1674 \def\HoLogo@AmS#1{%
1675   \HoLogoFont@font{AmS}{sy}{%
1676     A%
1677     \kern-.1667em%
1678     \lower.5ex\hbox{M}%
1679     \kern-.125em%
```

```

1680     S%
1681   }%
1682 }

\HoLogoBkm@AmS
1683 \def\HoLogoBkm@AmS#1{AmS}

\HoLogoHtml@AmS
1684 \def\HoLogoHtml@AmS#1{%
1685   \HoLogoCss@AmS
1686 %   \HoLogoFont@font{AmS}{sy}{%
1687     \HOLOGO@Span{AmS}{%
1688       A%
1689       \HOLOGO@Span{M}{M}%
1690       S%
1691     }%
1692 %   }%
1693 }

\HoLogoCss@AmS
1694 \def\HoLogoCss@AmS{%
1695   \Css{%
1696     span.HoLogo-AmS span.HoLogo-M{%
1697       position:relative;%
1698       top:.5ex;%
1699       margin-left:-.1667em;%
1700       margin-right:-.125em;%
1701       text-decoration:none;%
1702     }%
1703   }%
1704   \global\let\HoLogoCss@AmS\relax
1705 }

\HoLogo@AmSTeX
1706 \def\HoLogo@AmSTeX#1{%
1707   \hologo{AmS}%
1708   \HOLOGO@hyphen
1709   \hologo{TeX}%
1710 }

\HoLogoBkm@AmSTeX
1711 \def\HoLogoBkm@AmSTeX#1{AmS-TeX}%

\HoLogoHtml@AmSTeX
1712 \let\HoLogoHtml@AmSTeX\HoLogo@AmSTeX

\HoLogo@AmSLaTeX
1713 \def\HoLogo@AmSLaTeX#1{%
1714   \hologo{AmS}%
1715   \HOLOGO@hyphen
1716   \hologo{LaTeX}%
1717 }

\HoLogoBkm@AmSLaTeX
1718 \def\HoLogoBkm@AmSLaTeX#1{AmS-LaTeX}%

\HoLogoHtml@AmSLaTeX
1719 \let\HoLogoHtml@AmSLaTeX\HoLogo@AmSLaTeX

```

2.9.18 BIB_TE_X

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

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

```
1720 \def\HoLogo@BibTeX@sc#1{%
1721   B%
1722   \kern-.05em%
1723   \HoLogoFont@font{BibTeX}{sc}{%
1724     i%
1725     \kern-.025em%
1726     b%
1727   }%
1728   \HOLOGO@discretionary
1729   \kern-.08em%
1730   \hologo{TeX}%
1731 }
```

`\HoLogoHtml@BibTeX@sc`

```
1732 \def\HoLogoHtml@BibTeX@sc#1{%
1733   \HoLogoCss@BibTeX@sc
1734   \HOLOGO@Span{BibTeX-sc}{%
1735     B%
1736     \HOLOGO@Span{i}{i}%
1737     \HOLOGO@Span{b}{b}%
1738     \hologo{TeX}%
1739   }%
1740 }
```

`\HoLogoCss@BibTeX@sc`

```
1741 \def\HoLogoCss@BibTeX@sc{%
1742   \Css{%
1743     span.HoLogo-BibTeX-sc span.HoLogo-i{%
1744       margin-left:-.05em;%
1745       margin-right:-.025em;%
1746       font-variant:small-caps;%
1747     }%
1748   }%
1749   \Css{%
1750     span.HoLogo-BibTeX-sc span.HoLogo-b{%
1751       margin-right:-.08em;%
1752       font-variant:small-caps;%
1753     }%
1754   }
```

```

1754 }%
1755 \global\let\HoLogoCss@BibTeX@sc\relax
1756 }

```

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

```

```

1757 \def\HoLogo@BibTeX@sf#1{%
1758   B%
1759   \kern-.05em%
1760   \HoLogoFont@font{BibTeX}{bibsff}{%
1761     I%
1762     \kern-.025em%
1763     B%
1764   }%
1765   \HOLOGO@discretionary
1766   \kern-.08em%
1767   \hologo{TeX}%
1768 }

```

`\HoLogoHtml@BibTeX@sf`

```

1769 \def\HoLogoHtml@BibTeX@sf#1{%
1770   \HoLogoCss@BibTeX@sf
1771   \HOLOGO@Span{BibTeX-sf}{%
1772     B%
1773     \HoLogoFont@font{BibTeX}{bibsff}{%
1774       \HOLOGO@Span{i}{I}%
1775     }%
1776   }%
1777   \hologo{TeX}%
1778 }%
1779 }

```

`\HoLogoCss@BibTeX@sf`

```

1780 \def\HoLogoCss@BibTeX@sf{%
1781   \Css{%
1782     span.HoLogo-BibTeX-sf span.HoLogo-i{%
1783       margin-left:-.05em;%
1784       margin-right:-.025em;%
1785     }%
1786   }%
1787   \Css{%
1788     span.HoLogo-BibTeX-sf span.HoLogo-TeX{%
1789       margin-left:-.08em;%

```

```

1790 }%
1791 }%
1792 \global\let\HoLogoCss@BibTeX@sf\relax
1793 }

```

\HoLogo@BibTeX

```
1794 \def\HoLogo@BibTeX{\HoLogo@BibTeX@sf}
```

\HoLogoHtml@BibTeX

```
1795 \def\HoLogoHtml@BibTeX{\HoLogoHtml@BibTeX@sf}
```

2.9.19 BIBTEX8

\HoLogo@BibTeX8

```

1796 \expandafter\def\csname HoLogo@BibTeX8\endcsname#1{%
1797   \hologo{BibTeX}%
1798   8%
1799 }

```

\HoLogoBkm@BibTeX8

```

1800 \expandafter\def\csname HoLogoBkm@BibTeX8\endcsname#1{%
1801   \hologo{BibTeX}%
1802   8%
1803 }

```

\HoLogoHtml@BibTeX8

```

1804 \expandafter
1805 \let\csname HoLogoHtml@BibTeX8\expandafter\endcsname
1806 \csname HoLogo@BibTeX8\endcsname

```

2.9.20 ConTeXt

\HoLogo@ConTeXt@simple

```

1807 \def\HoLogo@ConTeXt@simple#1{%
1808   \HLOGO@mbbox{Con}%
1809   \HLOGO@discretionary
1810   \HLOGO@mbbox{\hologo{TeX}t}%
1811 }

```

\HoLogoHtml@ConTeXt@simple

```
1812 \let\HoLogoHtml@ConTeXt@simple\HoLogo@ConTeXt@simple
```

\HoLogo@ConTeXt@narrow

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

```

1813 \def\HoLogo@ConTeXt@narrow#1{%
1814   \HLOGO@mbbox{C\kern-.0333em}%
1815   \HLOGO@discretionary
1816   \kern-.0667em%
1817   \HLOGO@mbbox{\hologo{TeX}\kern-.0333emt}%
1818 }

```

\HoLogoHtml@ConTeXt@narrow

```

1819 \def\HoLogoHtml@ConTeXt@narrow#1{%
1820   \HoLogoCss@ConTeXt@narrow
1821   \HLOGO@Span{ConTeXt-narrow}{%
1822     \HLOGO@Span{C}{C}%
1823     on%
1824     \hologo{TeX}%
1825     t%
1826   }%
1827 }

```

`\HoLogoCss@ConTeXt@narrow`

```
1828 \def\HoLogoCss@ConTeXt@narrow{%
1829   \Css{%
1830     span.HoLogo-ConTeXt-narrow span.HoLogo-C{%
1831       margin-left:-.0333em;%
1832     }%
1833   }%
1834   \Css{%
1835     span.HoLogo-ConTeXt-narrow span.HoLogo-TeX{%
1836       margin-left:-.0667em;%
1837       margin-right:-.0333em;%
1838     }%
1839   }%
1840   \global\let\HoLogoCss@ConTeXt@narrow\relax
1841 }
```

`\HoLogo@ConTeXt`

```
1842 \def\HoLogo@ConTeXt{\HoLogo@ConTeXt@narrow}
```

`\HoLogoHtml@ConTeXt`

```
1843 \def\HoLogoHtml@ConTeXt{\HoLogoHtml@ConTeXt@narrow}
```

2.9.21 `emTeX`

`\HoLogo@emTeX`

```
1844 \def\HoLogo@emTeX#1{%
1845   \HOLOGO@ebox{#1{e}{E}m}%
1846   \HOLOGO@discretionary
1847   \hologo{TeX}%
1848 }
```

`\HoLogoCs@emTeX`

```
1849 \def\HoLogoCs@emTeX#1{#1{e}{E}mTeX}%
```

`\HoLogoBkm@emTeX`

```
1850 \def\HoLogoBkm@emTeX#1{%
1851   #1{e}{E}m\hologo{TeX}%
1852 }
```

`\HoLogoHtml@emTeX`

```
1853 \let\HoLogoHtml@emTeX\HoLogo@emTeX
```

2.9.22 `TeX`

`\HoLogo@ExTeX` The definition is taken from the FAQ of the project $\epsilon_X\text{TeX}$ [4].

```
\def\ExTeX{%
  \textrm{ Logo always with serifs
  \ensuremath{
    \textstyle
    \varepsilon_{
      \kern-0.15em%
      \mathcal{X}}%
    }%
  }%
  \kern-.15em%
  \TeX
}%
}
```

```

1854 \def\HoLogo@ExTeX#1{%
1855   \HoLogoFont@font{ExTeX}{rm}{%
1856     \ltx@mbbox{%
1857       \HOLOGO@MathSetup
1858       $%
1859       \textstyle
1860       \varepsilon_{%
1861         \kern-0.15em%
1862         \HoLogoFont@font{ExTeX}{sy}{X}%
1863       }%
1864     $%
1865   }%
1866   \HOLOGO@discretionary
1867   \kern-.15em%
1868   \hologo{TeX}%
1869 }%
1870 }

```

\HoLogoHtml@ExTeX

```

1871 \def\HoLogoHtml@ExTeX#1{%
1872   \HoLogoCss@ExTeX
1873   \HoLogoFont@font{ExTeX}{rm}{%
1874     \HOLOGO@Span{ExTeX}{%
1875       \ltx@mbbox{%
1876         \HOLOGO@MathSetup
1877         $\textstyle\varepsilon$%
1878         \HOLOGO@Span{X}{$\textstyle\chi$}%
1879         \hologo{TeX}%
1880       }%
1881     }%
1882   }%
1883 }

```

\HoLogoBkm@ExTeX

```

1884 \def\HoLogoBkm@ExTeX#1{%
1885   \HOLOGO@PdfdocUnicode{#1}{E}x{\textepsilon\textchi}%
1886   \hologo{TeX}%
1887 }

```

\HoLogoCss@ExTeX

```

1888 \def\HoLogoCss@ExTeX{%
1889   \Css{%
1890     span.HoLogo-ExTeX{%
1891       font-family:serif;%
1892     }%
1893   }%
1894   \Css{%
1895     span.HoLogo-ExTeX span.HoLogo-TeX{%
1896       margin-left:-.15em;%
1897     }%
1898   }%
1899   \global\let\HoLogoCss@ExTeX\relax
1900 }

```

2.9.23 MiKTeX

\HoLogo@MiKTeX

```

1901 \def\HoLogo@MiKTeX#1{%
1902   \HOLOGO@mbbox{MiK}%
1903   \HOLOGO@discretionary
1904   \hologo{TeX}%
1905 }

```

`\HoLogoHtml@MiKTeX`

```
1906 \let\HoLogoHtml@MiKTeX\HoLogo@MiKTeX
```

2.9.24 OzTeX and friends

Source: OzTeX FAQ [6]:

```
\def\OzTeX{0\kern-.03em z\kern-.15em\TeX}
(There is no kerning in OzMF, OzMP and OzTtH.)
```

`\HoLogo@OzTeX`

```
1907 \def\HoLogo@OzTeX#1{%
1908   0%
1909   \kern-.03em %
1910   z%
1911   \kern-.15em %
1912   \hologo{TeX}%
1913 }
```

`\HoLogoHtml@OzTeX`

```
1914 \def\HoLogoHtml@OzTeX#1{%
1915   \HoLogoCss@OzTeX
1916   \HOLOGO@Span{OzTeX}{%
1917     0%
1918     \HOLOGO@Span{z}{z}%
1919     \hologo{TeX}%
1920   }%
1921 }
```

`\HoLogoCss@OzTeX`

```
1922 \def\HoLogoCss@OzTeX{%
1923   \Css{%
1924     span.HoLogo-OzTeX span.HoLogo-z{%
1925       margin-left:-.03em;%
1926       margin-right:-.15em;%
1927     }%
1928   }%
1929   \global\let\HoLogoCss@OzTeX\relax
1930 }
```

`\HoLogo@OzMF`

```
1931 \def\HoLogo@OzMF#1{%
1932   \HOLOGO@mbbox{OzMF}%
1933 }
```

`\HoLogo@OzMP`

```
1934 \def\HoLogo@OzMP#1{%
1935   \HOLOGO@mbbox{OzMP}%
1936 }
```

`\HoLogo@OzTtH`

```
1937 \def\HoLogo@OzTtH#1{%
1938   \HOLOGO@mbbox{OzTtH}%
1939 }
```

2.9.25 PCTeX

`\HoLogo@PCTeX`

```
1940 \def\HoLogo@PCTeX#1{%
1941   \HOLOGO@mbbox{PC}%
1942   \hologo{TeX}%
1943 }
```


\HoLogoHtml@PCTeX

```
1944 \let\HoLogoHtml@PCTeX\HoLogo@PCTeX
```

2.9.26 PICTeX

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

```
1945 \def\HoLogo@PiC#1{%  
1946   P%  
1947   \kern-.12em%  
1948   \lower.5ex\hbox{I}%  
1949   \kern-.075em%  
1950   C%  
1951   \HOLOGO@SpaceFactor  
1952 }
```

\HoLogoHtml@PiC

```
1953 \def\HoLogoHtml@PiC#1{%  
1954   \HoLogoCss@PiC  
1955   \HOLOGO@Span{PiC}{%  
1956     P%  
1957     \HOLOGO@Span{i}{I}%  
1958     C%  
1959   }%  
1960 }
```

\HoLogoCss@PiC

```
1961 \def\HoLogoCss@PiC{%  
1962   \Css{%  
1963     span.HoLogo-PiC span.HoLogo-i{%  
1964       position:relative;%  
1965       top:.5ex;%  
1966       margin-left:-.12em;%  
1967       margin-right:-.075em;%  
1968       text-decoration:none;%  
1969     }%  
1970   }%  
1971   \global\let\HoLogoCss@PiC\relax  
1972 }
```

\HoLogo@PiCTeX

```
1973 \def\HoLogo@PiCTeX#1{%  
1974   \hologo{PiC}%  
1975   \HOLOGO@discretionary  
1976   \kern-.11em%  
1977   \hologo{TeX}%  
1978 }
```

`\HoLogoHtml@PiCTeX`

```
1979 \def\HoLogoHtml@PiCTeX#1{%
1980   \HoLogoCss@PiCTeX
1981   \HOLOGO@Span{PiCTeX}{%
1982     \hologo{PiC}%
1983     \hologo{TeX}%
1984   }%
1985 }
```

`\HoLogoCss@PiCTeX`

```
1986 \def\HoLogoCss@PiCTeX{%
1987   \Css{%
1988     span.HoLogo-PiCTeX span.HoLogo-PiC{%
1989       margin-right:-.11em;%
1990     }%
1991   }%
1992   \global\let\HoLogoCss@PiCTeX\relax
1993 }
```

2.9.27 `teTeX`

`\HoLogo@teTeX`

```
1994 \def\HoLogo@teTeX#1{%
1995   \HOLOGO@mbbox{#1}{t}{T}e}%
1996   \HOLOGO@discretionary
1997   \hologo{TeX}%
1998 }
```

`\HoLogoCs@teTeX`

```
1999 \def\HoLogoCs@teTeX#1{#1{t}{T}dfTeX}
```

`\HoLogoBkm@teTeX`

```
2000 \def\HoLogoBkm@teTeX#1{%
2001   #1{t}{T}e\hologo{TeX}%
2002 }
```

`\HoLogoHtml@teTeX`

```
2003 \let\HoLogoHtml@teTeX\HoLogo@teTeX
```

2.9.28 `TeX4ht`

`\HoLogo@TeX4ht`

```
2004 \expandafter\def\csname HoLogo@TeX4ht\endcsname#1{%
2005   \HOLOGO@mbbox{\hologo{TeX}4ht}%
2006 }
```

`\HoLogoHtml@TeX4ht`

```
2007 \expandafter
2008 \let\csname HoLogoHtml@TeX4ht\endcsname
2009 \csname HoLogo@TeX4ht\endcsname
```

2.9.29 `SageTeX`

`\HoLogo@SageTeX`

```
2010 \def\HoLogo@SageTeX#1{%
2011   \HOLOGO@mbbox{Sage}%
2012   \HOLOGO@discretionary
2013   \HOLOGO@NegativeKerning{eT,oT,To}%
2014   \hologo{TeX}%
2015 }
```

`\HoLogoHtml@SageTeX`

```
2016 \let\HoLogoHtml@SageTeX\HoLogo@SageTeX
```

2.10 METAFONT and friends

```
\HoLogo@METAFONT
2017 \def\HoLogo@METAFONT#1{%
2018 \HoLogoFont@font{METAFONT}{logo}{%
2019 \HOLOGO@mbox{META}%
2020 \HOLOGO@discretionary
2021 \HOLOGO@mbox{FONT}%
2022 }%
2023 }
```

```
\HoLogo@METAPOST
2024 \def\HoLogo@METAPOST#1{%
2025 \HoLogoFont@font{METAPOST}{logo}{%
2026 \HOLOGO@mbox{META}%
2027 \HOLOGO@discretionary
2028 \HOLOGO@mbox{POST}%
2029 }%
2030 }
```

```
\HoLogo@MetaFun
2031 \def\HoLogo@MetaFun#1{%
2032 \HOLOGO@mbox{Meta}%
2033 \HOLOGO@discretionary
2034 \HOLOGO@mbox{Fun}%
2035 }
```

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

2.11 Others

2.11.1 biber

```
\HoLogo@biber
2041 \def\HoLogo@biber#1{%
2042 \HOLOGO@mbox{#1{b}{B}i}%
2043 \HOLOGO@discretionary
2044 \HOLOGO@mbox{ber}%
2045 }
```

```
\HoLogoCs@biber
2046 \def\HoLogoCs@biber#1{#1{b}{B}iber}
```

```
\HoLogoBkm@biber
2047 \def\HoLogoBkm@biber#1{%
2048 #1{b}{B}iber%
2049 }
```

```
\HoLogoHtml@biber
2050 \let\HoLogoHtml@biber\HoLogo@biber
```

2.11.2 KOMA-Script

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

```

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

```

```

2051 \def\HoLogo@KOMAScript#1{%
2052   \HoLogoFont@font{KOMAScript}{sf}{%
2053     \HOLOGO@mbox{%
2054       K\kern.05em%
2055       O\kern.05em%
2056       M\kern.05em%
2057       A%
2058     }%
2059     \kern.1em%
2060     \HOLOGO@hyphen
2061     \kern.1em%
2062     \HOLOGO@mbox{Script}%
2063   }%
2064 }

```

\HoLogoBkm@KOMAScript

```

2065 \def\HoLogoBkm@KOMAScript#1{%
2066   KOMA-Script%
2067 }

```

\HoLogoHtml@KOMAScript

```

2068 \def\HoLogoHtml@KOMAScript#1{%
2069   \HoLogoCss@KOMAScript
2070   \HoLogoFont@font{KOMAScript}{sf}{%
2071     \HOLOGO@Span{KOMAScript}{%
2072       K%
2073       \HOLOGO@Span{O}{O}%
2074       M%
2075       \HOLOGO@Span{A}{A}%
2076       \HOLOGO@Span{hyphen}{-}%
2077       Script%
2078     }%
2079   }%
2080 }

```

\HoLogoCss@KOMAScript

```

2081 \def\HoLogoCss@KOMAScript{%
2082   \Css{%
2083     span.HoLogo-KOMAScript{%
2084       font-family:sans-serif;%
2085     }%
2086   }%
2087   \Css{%
2088     span.HoLogo-KOMAScript span.HoLogo-O{%
2089       padding-left:.05em;%
2090       padding-right:.05em;%
2091     }%
2092   }%
2093   \Css{%
2094     span.HoLogo-KOMAScript span.HoLogo-A{%
2095       padding-left:.05em;%
2096     }%
2097   }%

```

```

2098 \Css{%
2099   span.HoLogo-KOMAScript span.HoLogo-hyphen{%
2100     padding-left:.1em;%
2101     padding-right:.1em;%
2102   }%
2103 }%
2104 \global\let\HoLogoCss@KOMAScript\relax
2105 }

```

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%
  }%
}

2106 \def\HoLogo@LyX#1{%
2107   L%
2108   \kern-.1667em%
2109   \lower.25em\hbox{Y}%
2110   \kern-.125em%
2111   X%
2112   \HOLOGO@SpaceFactor
2113 }

```

\HoLogoHtml@LyX

```

2114 \def\HoLogoHtml@LyX#1{%
2115   \HoLogoCss@LyX
2116   \HOLOGO@Span{LyX}{%
2117     L%
2118     \HOLOGO@Span{y}{Y}%
2119     X%
2120   }%
2121 }

```

\HoLogoCss@LyX

```

2122 \def\HoLogoCss@LyX{%
2123   \Css{%
2124     span.HoLogo-LyX span.HoLogo-y{%
2125       position:relative;%
2126       top:.25em;%
2127       margin-left:-.1667em;%
2128       margin-right:-.125em;%
2129       text-decoration:none;%
2130     }%
2131   }%
2132   \global\let\HoLogoCss@LyX\relax
2133 }

```

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

\HoLogo@NTS Definition for $\mathcal{N}\mathcal{S}$ can be found in package etex_man for the ϵ -TeX 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%
        $%
    }%
}

2134 \def\HoLogo@NTS#1{%
2135 \HoLogoFont@font{NTS}{sy}{%
2136 N\%
2137 \kern-.35em%
2138 \lower.5ex\hbox{T\}%
2139 \kern-.2em%
2140 S\%
2141 }%
2142 \HOLOGO@SpaceFactor
2143 }

```

2.11.5 T_TH (T_EX 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

```

2144 \def\HoLogo@TTH#1{%
2145 \ltx@mbox{%
2146 T\HOLOGO@SubScript{T}H%
2147 }%
2148 \HOLOGO@SpaceFactor
2149 }

```

\HoLogoHtml@TTH

```

2150 \def\HoLogoHtml@TTH#1{%
2151 T\HCode{<sub>}T\HCode{</sub>}H%
2152 }

```

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

```

2153 \def\HoLogo@HanTheThanh#1{%
2154 \ltx@mbox{H\`an}%
2155 \HOLOGO@space
2156 \ltx@mbox{%
2157 Th%
2158 \HOLOGO@IfCharExists{"1EBF}{%
2159 \char"1EBF\relax
2160 }{%
2161 \~e\hbox to 0pt{\hss\raise .5ex\hbox{'{}}}%
2162 }%
2163 }%
2164 \HOLOGO@space
2165 \ltx@mbox{Th\`anh}%
2166 }

```

\HoLogoBkm@HanTheThanh

```
2167 \def\HoLogoBkm@HanTheThanh#1{%
2168   H`an %
2169   Th\HLOGO@PdfdocUnicode{\^e}{\9036\277} %
2170   Th`anh%
2171 }
```

\HoLogoHtml@HanTheThanh

```
2172 \def\HoLogoHtml@HanTheThanh#1{%
2173   H`an %
2174   Th\HCode{&\ltx@hashchar x1ebf;} %
2175   Th`anh%
2176 }
```

2.12 Driver detection

```
2177 \HLOGO@IfExists\InputIfFileExists{%
2178   \InputIfFileExists{hologo.cfg}{-}{-}%
2179 }{%
2180   \ltx@IfUndefined{pdf@filesize}{%
2181     \def\HLOGO@InputIfExists{%
2182       \openin\HLOGO@temp=hologo.cfg\relax
2183       \ifeof\HLOGO@temp
2184         \closein\HLOGO@temp
2185       \else
2186         \closein\HLOGO@temp
2187         \beginingroup
2188           \def\x{LaTeX2e}%
2189           \expandafter\endgroup
2190           \ifx\fmtname\x
2191             \input{hologo.cfg}%
2192           \else
2193             \input hologo.cfg\relax
2194           \fi
2195         \fi
2196       }%
2197     \ltx@IfUndefined{newread}{%
2198       \chardef\HLOGO@temp=15 %
2199       \def\HLOGO@CheckRead{%
2200         \ifeof\HLOGO@temp
2201           \HLOGO@InputIfExists
2202         \else
2203           \ifcase\HLOGO@temp
2204             \@PackageWarningNoLine{hologo}{%
2205               Configuration file ignored, because\MessageBreak
2206               a free read register could not be found%
2207             }%
2208           \else
2209             \beginingroup
2210               \count\ltx@cclv=\HLOGO@temp
2211               \advance\ltx@cclv by \ltx@minusone
2212               \edef\x{\endgroup
2213                 \chardef\noexpand\HLOGO@temp=\the\count\ltx@cclv
2214                 \relax
2215               }%
2216             \x
2217           \fi
2218         \fi
2219       }%
2220     }{%
2221       \csname newread\endcsname\HLOGO@temp
2222       \HLOGO@InputIfExists
```

```

2223 }%
2224 }{%
2225 \edef\HOLOGO@temp{\pdf@filesize{hologo.cfg}}%
2226 \ifx\HOLOGO@temp\ltx@empty
2227 \else
2228 \ifnum\HOLOGO@temp>0 %
2229 \begingroup
2230 \def\x{LaTeX2e}%
2231 \expandafter\endgroup
2232 \ifx\fmtname\x
2233 \input{hologo.cfg}%
2234 \else
2235 \input hologo.cfg\relax
2236 \fi
2237 \else
2238 \@PackageInfoNoLine{hologo}{%
2239 Empty configuration file `hologo.cfg' ignored%
2240 }%
2241 \fi
2242 \fi
2243 }%
2244 }

2245 \def\HOLOGO@temp#1#2{%
2246 \kv@define@key{HoLogoDriver}{#1}[]{%
2247 \begingroup
2248 \def\HOLOGO@temp{##1}%
2249 \ltx@onelevel@sanitize\HOLOGO@temp
2250 \ifx\HOLOGO@temp\ltx@empty
2251 \else
2252 \@PackageError{hologo}{%
2253 Value (\HOLOGO@temp) not permitted for option `#1'%
2254 }%
2255 \@ehc
2256 \fi
2257 \endgroup
2258 \def\hologoDriver{#2}%
2259 }%
2260 }%

2261 \def\HOLOGO@@temp#1#2{%
2262 \ifx\kv@value\relax
2263 \HOLOGO@temp{#1}{#1}%
2264 \else
2265 \HOLOGO@temp{#1}{#2}%
2266 \fi
2267 }%

2268 \kv@parse@normalized{%
2269 pdftex,%
2270 luatex=pdftex,%
2271 dvipdfm,%
2272 dvipdfmx=dvipdfm,%
2273 dvips,%
2274 dvipsone=dvips,%
2275 xdvi=dvips,%
2276 xetex,%
2277 vtex,%
2278 }\HOLOGO@@temp

2279 \kv@define@key{HoLogoDriver}{driverfallback}{%
2280 \def\HOLOGO@DriverFallback{#1}%
2281 }

\HOLOGO@DriverFallback
2282 \def\HOLOGO@DriverFallback{dvips}

```



```

\hologoDriverSetup
2283 \def\hologoDriverSetup{%
2284 \let\hologoDriver\ltx@undefined
2285 \HOLOGO@DriverSetup
2286 }

\HOLOGO@DriverSetup
2287 \def\HOLOGO@DriverSetup#1{%
2288 \kvsetkeys{HoLogoDriver}{#1}%
2289 \HOLOGO@CheckDriver
2290 \ltx@ifundefined{hologoDriver}{%
2291 \begingroup
2292 \edef\x{\endgroup
2293 \noexpand\kvsetkeys{HoLogoDriver}{\HOLOGO@DriverFallback}%
2294 }\x
2295 }{%
2296 \@PackageInfoNoLine{hologo}{Using driver `hologoDriver'}%
2297 }

\HOLOGO@CheckDriver
2298 \def\HOLOGO@CheckDriver{%
2299 \ifpdf
2300 \def\hologoDriver{pdftex}%
2301 \let\HOLOGO@pdfliteral\pdfliteral
2302 \ifluatex
2303 \ltx@ifundefined{HOLOGO@pdfliteral}{%
2304 \ifnum\luatexversion<36 %
2305 \else
2306 \begingroup
2307 \let\HOLOGO@temp\endgroup
2308 \ifcase0%
2309 \directlua{%
2310 if tex.enableprimitives then %
2311 tex.enableprimitives('HOLOGO@', {'pdfliteral'})%
2312 else %
2313 tex.print('1')%
2314 end%
2315 }%
2316 \ifx\HOLOGO@pdfliteral\@undefined 1\fi%
2317 \relax%
2318 \endgroup
2319 \let\HOLOGO@temp\relax
2320 \global\let\HOLOGO@pdfliteral\HOLOGO@pdfliteral
2321 \fi%
2322 \HOLOGO@temp
2323 \fi
2324 }{%
2325 \fi
2326 \ltx@ifundefined{HOLOGO@pdfliteral}{%
2327 \@PackageWarningNoLine{hologo}{%
2328 Cannot find \string\pdfliteral
2329 }%
2330 }{%
2331 \else
2332 \ifxetex
2333 \def\hologoDriver{xetex}%
2334 \else
2335 \ifvtex
2336 \def\hologoDriver{vtex}%
2337 \fi
2338 \fi
2339 \fi
2340 }

```

LOGO@WarningUnsupportedDriver

```
2341 \def\HOLOGO@WarningUnsupportedDriver#1{%
2342   \@PackageWarningNoLine{hologo}{%
2343     Logo `#1' needs driver specific macros,\MessageBreak
2344     but driver ``hologoDriver' is not supported.\MessageBreak
2345     Use a different driver or\MessageBreak
2346     load package `graphics' or `pgf'%
2347   }%
2348 }
```

2.12.1 Reflect box macros

Skip driver part if not needed.

```
2349 \ltx@ifundefined{reflectbox}{}{%
2350   \ltx@ifundefined{rotatebox}{}{%
2351     \HOLOGO@AtEnd
2352   }%
2353 }
2354 \ltx@ifundefined{pgftext}{}{%
2355   \HOLOGO@AtEnd
2356 }
2357 \ltx@ifundefined{psscalebox}{}{%
2358   \HOLOGO@AtEnd
2359 }
2360 \def\HOLOGO@temp{LaTeX2e}
2361 \ifx\fmtname\HOLOGO@temp
2362   \RequirePackage{kvoptions}[2011/06/30]%
2363   \ProcessKeyvalOptions{HoLogoDriver}%
2364 \fi
2365 \HOLOGO@DriverSetup{}
```

\HOLOGO@ReflectBox

```
2366 \def\HOLOGO@ReflectBox#1{%
2367   \begingroup
2368     \setbox\ltx@zero\hbox{\begingroup#1\endgroup}%
2369     \setbox\ltx@two\hbox{%
2370       \kern\wd\ltx@zero
2371       \csname HOLOGO@ScaleBox@\hologoDriver\endcsname{-1}{1}{%
2372         \hbox to 0pt{\copy\ltx@zero\hss}%
2373       }%
2374     }%
2375     \wd\ltx@two=\wd\ltx@zero
2376     \box\ltx@two
2377   \endgroup
2378 }
```

\HOLOGO@PointReflectBox

```
2379 \def\HOLOGO@PointReflectBox#1{%
2380   \begingroup
2381     \setbox\ltx@zero\hbox{\begingroup#1\endgroup}%
2382     \setbox\ltx@two\hbox{%
2383       \kern\wd\ltx@zero
2384       \raise\ht\ltx@zero\hbox{%
2385         \csname HOLOGO@ScaleBox@\hologoDriver\endcsname{-1}{-1}{%
2386           \hbox to 0pt{\copy\ltx@zero\hss}%
2387         }%
2388       }%
2389     }%
2390     \wd\ltx@two=\wd\ltx@zero
2391     \box\ltx@two
2392   \endgroup
2393 }
```

We must define all variants because of dynamic driver setup.

```
2394 \def\HOLOGO@temp#1#2{#2}
```

```
\HOLOGO@ScaleBox@pdftex
```

```
2395 \HOLOGO@temp{pdftex}{%
2396   \def\HOLOGO@ScaleBox@pdftex#1#2#3{%
2397     \HOLOGO@pdfliteral{%
2398       q #1 0 0 #2 0 0 cm%
2399     }%
2400     #3%
2401     \HOLOGO@pdfliteral{%
2402       Q%
2403     }%
2404   }%
2405 }
```

```
\HOLOGO@ScaleBox@dvips
```

```
2406 \HOLOGO@temp{dvips}{%
2407   \def\HOLOGO@ScaleBox@dvips#1#2#3{%
2408     \special{ps:%
2409       gsave %
2410       currentpoint %
2411       currentpoint translate %
2412       #1 #2 scale %
2413       neg exch neg exch translate%
2414     }%
2415     #3%
2416     \special{ps:%
2417       currentpoint %
2418       grestore %
2419       moveto%
2420     }%
2421   }%
2422 }
```

```
\HOLOGO@ScaleBox@dvi pdfm
```

```
2423 \HOLOGO@temp{dvi pdfm}{%
2424   \let\HOLOGO@ScaleBox@dvi pdfm\HOLOGO@ScaleBox@dvips
2425 }
```

Since X_YTEX v0.6.

```
\HOLOGO@ScaleBox@xetex
```

```
2426 \HOLOGO@temp{xetex}{%
2427   \def\HOLOGO@ScaleBox@xetex#1#2#3{%
2428     \special{x:gsave}%
2429     \special{x:scale #1 #2}%
2430     #3%
2431     \special{x:grestore}%
2432   }%
2433 }
```

```
\HOLOGO@ScaleBox@vtex
```

```
2434 \HOLOGO@temp{vtex}{%
2435   \def\HOLOGO@ScaleBox@vtex#1#2#3{%
2436     \special{r(#1,0,0,#2,0,0)%
2437     #3%
2438     \special{r}}%
2439   }%
2440 }

2441 \HOLOGO@AtEnd%
2442 </package>
```

3 Test

3.1 Catcode checks for loading

```
2443 ⟨*test1⟩
2444 \catcode`\{=1 %
2445 \catcode`\}=2 %
2446 \catcode`\#=6 %
2447 \catcode`\@=11 %
2448 \expandafter\ifx\csname count@\endcsname\relax
2449 \countdef\count@=255 %
2450 \fi
2451 \expandafter\ifx\csname @gobble\endcsname\relax
2452 \long\def\@gobble#1{}%
2453 \fi
2454 \expandafter\ifx\csname @firstofone\endcsname\relax
2455 \long\def\@firstofone#1{#1}%
2456 \fi
2457 \expandafter\ifx\csname loop\endcsname\relax
2458 \expandafter\@firstofone
2459 \else
2460 \expandafter\@gobble
2461 \fi
2462 {%
2463 \def\loop#1\repeat{%
2464 \def\body{#1}%
2465 \iterate
2466 }%
2467 \def\iterate{%
2468 \body
2469 \let\next\iterate
2470 \else
2471 \let\next\relax
2472 \fi
2473 \next
2474 }%
2475 \let\repeat=\fi
2476 }%
2477 \def\RestoreCatcodes{}
2478 \count@=0 %
2479 \loop
2480 \edef\RestoreCatcodes{%
2481 \RestoreCatcodes
2482 \catcode\the\count@=\the\catcode\count@\relax
2483 }%
2484 \ifnum\count@<255 %
2485 \advance\count@ 1 %
2486 \repeat
2487
2488 \def\RangeCatcodeInvalid#1#2{%
2489 \count@=#1\relax
2490 \loop
2491 \catcode\count@=15 %
2492 \ifnum\count@<#2\relax
2493 \advance\count@ 1 %
2494 \repeat
2495 }
2496 \def\RangeCatcodeCheck#1#2#3{%
2497 \count@=#1\relax
2498 \loop
2499 \ifnum#3=\catcode\count@
2500 \else
```

```

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

```

2542 <*test-spacefactor>
2543 \NeedsTeXFormat{LaTeX2e}
2544 \documentclass{article}
2545 \usepackage{hologo}[2012/04/26]
2546 \usepackage{kvsetkeys}
2547 \usepackage{qstest}
2548 \IncludeTests{*}
2549 \LogTests{log}{*}{*}
2550 \begin{document}
2551 \begin{qstest}{spacefactor}{spacefactor}
2552 \newcommand*{\Test}[1]{%
2553     \sbox0{%
2554         \hologo{#1}%
2555         \Expect*{1000 (#1)}*{\the\spacefactor\space(#1)}%

```

```

2556 }%
2557 }%
2558 \makeatletter
2559 \def\TestList{}
2560 \def\hologoEntry#1#2#3{%
2561 \edef\TestList{%
2562 \ifx\TestList\@empty
2563 \else
2564 \TestList,%
2565 \fi
2566 #1%
2567 \ifx\#2\%
2568 \else
2569 ={\variant=#2}%
2570 \fi
2571 }%
2572 }
2573 \hologoList
2574 \expandafter\kv@parse@normalized\expandafter{%
2575 \TestList
2576 }{%
2577 \beginngroup
2578 \let\@logo=\kv@key
2579 \ifx\kv@value\relax
2580 \else
2581 \expandafter\hologoLogoSetup\expandafter\@logo\expandafter{%
2582 \kv@value
2583 }%
2584 \fi
2585 \Test\@logo
2586 \endngroup
2587 \@gobbletwo
2588 }
2589 \end{qstest}
2590 \end{document}
2591 </test-spacefactor>

```

3.3 Complete list

```

2592 <*test-list>
2593 \NeedsTeXFormat{LaTeX2e}
2594 \documentclass[12pt,a4paper]{article}
2595 \usepackage{hologo}[2012/04/26]
2596 \usepackage[T1]{fontenc}
2597 \usepackage{lmodern}
2598 \usepackage{parskip}
2599 \usepackage[unicode]{hyperref}[2011/09/28]
2600 \usepackage{bookmark}[2011/09/19]
2601 \bookmarksetup{%
2602 numbered,%
2603 open,%
2604 openlevel=2,%
2605 }
2606 \renewcommand*\contentsname{List of logos}
2607 \begin{document}
2608 \tableofcontents
2609 \def\TestFont#1#2#3#4#5#6{%
2610 \beginngroup
2611 \usefont{#3}{#4}{#5}{#6}%
2612 \HologoVariant{#1}{#2}/\hologoVariant{#1}{#2}%
2613 \quad
2614 \beginngroup\scriptsize\hologoVariant{#1}{#2}\endngroup

```

```

2615   \quad
2616 \endgroup
2617 (#3/#4/#5/#6)%
2618 \par
2619 }
2620 \makeatletter
2621 \def\hologoEntry#1#2#3{%
2622   \section{%
2623     \HologoVariant{#1}{#2}/\hologoVariant{#1}{#2} %
2624     {[#1\ifx\#2\else\space#2\fi]}% hash-ok
2625   }% braces around [] because of bug in tex4ht
2626 \begingroup
2627   \hypersetup{unicode=false}%
2628   \bookmark[%
2629     dest=\@currentHref,%
2630     rellevel=1,%
2631     keeplevel,%
2632   ]{%
2633     \HologoVariant{#1}{#2}/\hologoVariant{#1}{#2} %
2634     (PDFDocEncoding)%
2635   }%
2636 \endgroup
2637 \TestFont{#1}{#2}{OT1}{cmr}{m}{n}%
2638 \TestFont{#1}{#2}{OT1}{cmss}{m}{n}%
2639 \TestFont{#1}{#2}{OT1}{cmr}{b}{n}%
2640 \TestFont{#1}{#2}{OT1}{cmr}{m}{it}%
2641 \TestFont{#1}{#2}{OT1}{cmtt}{m}{n}%
2642 \TestFont{#1}{#2}{T1}{lmr}{m}{n}%
2643 \TestFont{#1}{#2}{T1}{lms}{m}{n}%
2644 \TestFont{#1}{#2}{T1}{lmr}{b}{n}%
2645 \TestFont{#1}{#2}{T1}{lmr}{m}{it}%
2646 \TestFont{#1}{#2}{T1}{lmtt}{m}{n}%
2647 \TestFont{#1}{#2}{T1}{lmtt}{m}{n}%
2648 \TestFont{#1}{#2}{T1}{qtm}{m}{n}%
2649 \TestFont{#1}{#2}{T1}{qhv}{m}{n}%
2650 \TestFont{#1}{#2}{T1}{qtm}{b}{n}%
2651 \TestFont{#1}{#2}{T1}{qtm}{m}{it}%
2652 \TestFont{#1}{#2}{T1}{qcr}{m}{n}%
2653 \newpage
2654 }
2655 \makeatother
2656 \hologoList
2657 \end{document}
2658 </test-list>

```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

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

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

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

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

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

¹<ftp://ftp.ctan.org/tex-archive/>

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 \TeX :

```
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):

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

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

4.4 Refresh file name databases

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

4.5 Some details for the interested

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

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

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

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

\LaTeX : Generate the documentation.

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

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

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

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

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

An example follows how to generate the documentation with pdfL^AT_EX:

```
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 [T_EX 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`.

```
2659 ⟨*catalogue⟩
2660 <?xml version='1.0' encoding='us-ascii'?>
2661 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
2662 <entry datestamp='$Date$' modifier='$Author$' id='hologo'>
2663   <name>hologo</name>
2664   <caption>A collection of logos with bookmark support.</caption>
2665   <authorref id='auth:oberdiek'>/>
2666   <copyright owner='Heiko Oberdiek' year='2010-2012'>/>
2667   <license type='lpl1.3'>/>
2668   <version number='1.10'>/>
2669   <description>
2670     The package defines a single command <tt>\hologo</tt>, whose
2671     argument is the usual case-confused ASCII version of the logo.
2672     The command is bookmark-enabled, so that every logo becomes
2673     available in bookmarks without further work.
2674     <p/>
2675     The package is part of the <xref refid='oberdiek'>oberdiek</xref>
2676     bundle.
2677   </description>
2678   <documentation details='Package documentation'
2679     href='ctan:/macros/latex/contrib/oberdiek/hologo.pdf'>/>
2680   <ctan file='true' path='/macros/latex/contrib/oberdiek/hologo.dtx'>/>
2681   <miktex location='oberdiek'>/>
2682   <texlive location='oberdiek'>/>
2683   <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'>/>
2684 </entry>
2685 ⟨/catalogue⟩
```

6 References

- [1] Oren Patashnik, *BIB_TE_Xing*, 1988-02-08.
[CTAN:biblio/bibtex/base/](#)
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[CTAN:usergrps/dante/dtk/dtklogos.sty](#)
- [3] The $\mathcal{N}\mathcal{T}\mathcal{S}$ Team, *The ε -T_EX manual*, 1998-02.
[CTAN:systems/e-tex/v2/doc/](#)
- [4] The ε_X T_EX group, *ε_X T_EX: FAQ – How is ε_X T_EX typeset?*, 2007-04-14.
<http://www.extex.org/documentation/faq.html>

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<http://www.lyx.org/>
- [6] Andrew Trevorrow, OZ \TeX FAQ: What is the correct way to typeset “OZ \TeX ”?, 2011-09-15 (visited).
<http://www.trevorrow.com/oztex/ozfaq.html#oztex-logo>
- [7] Michael Wichura, *The P \TeX 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]

- \LaTeX 3 added.
- \TeX added.

[2010/11/21 v1.3]

- `ini \TeX` , `vir \TeX` added.

[2011/03/25 v1.4]

- `Con \TeX t` 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: \LaTeX , biber, BibTeX (sc, sf), emTeX, ϵ_X TeX, KOMA-Script, \LaTeX , LyX, MiKTeX, $\mathcal{N}\mathcal{S}$, OzMF, OzMP, OzTeX, OzTtH, PCTeX, P1C, P1CTeX, METAFONT, MetaFun, METAPOST, MetaPost, SLTeX (lift, narrow, simple), SLiTeX (narrow, simple, lift), teTeX.
- Fixes: iniTeX, pdfLaTeX, pdfTeX, virTeX.
- `\hologoFontSetup` and `\hologoLogoFontSetup` added.
- `\hologoVariant` and `\HologoVariant` added.

[2011/11/22 v1.7]

- New logos: BibTeX8, LaTeXML, SageTeX, TeX4ht, T_TH.
- X_{\square} and friends: Driver stuff fixed.
- X_{\square} and friends: Support for italic added.
- X_{\square} 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 iniTeX.
- Some fixes for iniTeX.

[2012/04/26 v1.10]

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

8 Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; plain numbers refer to the code lines where the entry is used.

Symbols			
<code>\#</code>	2446	<code>\@empty</code>	2562
<code>\\$</code> 804, 1141, 1144, 1152, 1246, 1249, 1257		<code>\@firstofone</code>	2455, 2458
<code>\%</code>	1078, 1121, 2522	<code>\@gobble</code>	2452, 2460
<code>\&</code> .. 1142, 1145, 1153, 1247, 1250, 1258		<code>\@gobbletwo</code>	2587
<code>\'</code>	2161	<code>\@logo</code>	2578, 2581, 2585
<code>\-</code>	519	<code>\@nil</code>	911
<code>\/</code>	2136, 2138, 2140	<code>\@undefined</code> ..	180, 352, 449, 693, 2316
<code>\@</code>	2447, 2520	<code>\</code>	33, 48, 50, 51, 52, 53, 54, 61, 72, 79, 2521, 2567, 2624
<code>\@PackageError</code>		<code>\{</code>	2444
..... 369, 402, 440, 452, 635,		<code>\}</code>	2445
658, 665, 817, 849, 1542, 1584, 2252		<code>\^</code>	1140, 1245, 1481, 2161, 2169
<code>\@PackageInfoNoLine</code>	2238, 2296	<code>\`</code> ..	2154, 2165, 2168, 2170, 2173, 2175
<code>\@PackageWarning</code>	539	Numbers	
<code>\@PackageWarningNoLine</code>		<code>\2</code>	2169
..... 2204, 2327, 2342		<code>\9</code>	2169
<code>\@currentHref</code>	2629	<code>\sq</code>	52, 53, 54
<code>\@ehc</code>	371, 405, 444, 454, 637, 661, 668, 819, 851, 1542, 1584, 2255		

A	
<code>\advance</code>	935, 1523, 1536, 2211, 2485, 2493, 2508
<code>\aftergroup</code>	151, 1445, 1447, 1450
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