

The `hologo` package

Heiko Oberdiek*

<heiko.oberdiek at gmail.com>

2017/05/01 v1.13

Abstract

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

Contents

1	Documentation	3
1.1	Logo macros	3
1.2	Setup macros	4
1.3	Options	4
1.4	Driver options	5
1.5	Font setup	5
1.5.1	Font order	6
1.6	Additional user macros	6
1.7	Supported contexts	7
1.8	Example	7
2	Implementation	9
2.1	Logo list	11
2.2	Load resources	12
2.3	Setup macros	13
2.4	Options	14
2.5	Break/no-break support	15
2.6	Font support	17
2.6.1	Font defaults	17
2.6.2	Font setup	19
2.7	Generic logo commands	19
2.7.1	<code>\hologo</code> and friends	20
2.7.2	<code>\hologoRobust</code> and friends	22
2.8	Helpers	24
2.8.1	Text subscript	25
2.9	\TeX and friends	25
2.9.1	\TeX	25
2.9.2	plain \TeX	26
2.9.3	\LaTeX	27
2.9.4	(\LaTeX)	28
2.9.5	$\LaTeX 2_{\epsilon}$	30
2.9.6	$\LaTeX 3$	31
2.9.7	$\LaTeX ML$	31
2.9.8	$\epsilon\text{-}\TeX$	32
2.9.9	ini \TeX	33
2.9.10	vir \TeX	33

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

2.9.11	SL _T EX	33
2.9.12	Lua _T EX	36
2.9.13	LuaL _T EX	36
2.9.14	X _Y TEX, X _Y L _T EX	37
2.9.15	pdf _T EX, pdfL _T EX	41
2.9.16	V _T EX	41
2.9.17	$\mathcal{A}\mathcal{M}\mathcal{S}$, ...	42
2.9.18	BIB _T EX	43
2.9.19	BIB _T EX8	45
2.9.20	Con _T EXt	45
2.9.21	em _T EX	46
2.9.22	ϵ_X _T EX	46
2.9.23	MiK _T EX	47
2.9.24	Oz _T EX and friends	48
2.9.25	P _C _T EX	49
2.9.26	P _I _C _T EX	49
2.9.27	te _T EX	50
2.9.28	T _E X4ht	50
2.9.29	Sage _T EX	51
2.10	METAFONT and friends	51
2.11	Others	51
2.11.1	biber	51
2.11.2	KOMA-Script	52
2.11.3	Ly _X	53
2.11.4	$\mathcal{N}\mathcal{T}\mathcal{S}$	54
2.11.5	T _T H (T _E X to HTML translator)	54
2.11.6	Hàn Thế Thành	54
2.12	Driver detection	55
2.12.1	Reflect box macros	58
3	Test	60
3.1	Catcode checks for loading	60
3.2	Spacefactor	62
3.3	Complete list	62
4	Installation	64
4.1	Download	64
4.2	Bundle installation	64
4.3	Package installation	64
4.4	Refresh file name databases	65
4.5	Some details for the interested	65
5	Catalogue	65
6	References	66
7	History	66
	[2010/04/08 v1.0]	66
	[2010/04/16 v1.1]	66
	[2010/04/24 v1.2]	66
	[2010/11/21 v1.3]	66
	[2011/03/25 v1.4]	67
	[2011/04/21 v1.5]	67
	[2011/10/01 v1.6]	67
	[2011/11/22 v1.7]	67
	[2011/11/29 v1.8]	67
	[2011/12/21 v1.9]	67
	[2012/04/26 v1.10]	67

[2016/05/12 v1.11]	67
[2016/05/16 v1.12]	67
[2017/05/01 v1.13]	67

8 Index 68

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 ^A)T _E X	2011/10/01
AmSLaTeX		$\mathcal{A}\mathcal{M}\mathcal{S}$ -L ^A T _E X	2010/04/16
AmSTeX		$\mathcal{A}\mathcal{M}\mathcal{S}$ -T _E X	2010/04/16
biber		biber	2011/10/01
BibTeX		BibT _E X	2011/10/01
BibTeX	sf	BibT _E X	2011/10/01
BibTeX	sc	BibT _E X	2011/10/01
BibTeX8		BibT _E X8	2011/11/22
ConTeXt		ConT _E Xt	2011/03/25
ConTeXt	narrow	ConT _E Xt	2011/03/25
ConTeXt	simple	ConT _E Xt	2011/03/25
emTeX		emT _E X	2010/04/26
eTeX		ε -T _E X	2010/04/08
ExTeX		ε_X T _E X	2011/10/01
HanTheThanh		Hàn Thê Thành	2011/11/29
iniTeX		iniT _E X	2011/10/01
KOMAScript		KOMA-Script	2011/10/01
La		L ^A	2010/05/08
LaTeX		L ^A T _E X	2010/04/08
LaTeX2e		L ^A T _E X 2 _{ε}	2010/04/08
LaTeX3		L ^A T _E X3	2010/04/24
LaTeXe		L ^A T _E X 2 _{ε}	2010/04/08
LaTeXML		L ^A T _E XML	2011/11/22
LaTeXTeX		(L ^A)T _E X	2011/10/01
LuaLaTeX		LuaL ^A T _E X	2010/04/08
LuaTeX		LuaT _E X	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		MiKT _E X	2011/10/01
NTS		$\mathcal{N}\mathcal{T}\mathcal{S}$	2011/10/01
OzMF		OzMF	2011/10/01
OzMP		OzMP	2011/10/01
OzTeX		OzT _E X	2011/10/01
OzTtH		OzTtH	2011/10/01
PCTeX		PCT _E X	2011/10/01
pdfTeX		pdfT _E X	2011/10/01
pdfLaTeX		pdfL ^A T _E X	2011/10/01
PiC		P _I C	2011/10/01

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

1.2 Setup macros

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

`\hologoSetup {⟨key value list⟩}`

Macro `\hologoSetup` sets global options.

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

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

1.3 Options

There are boolean and string options:

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

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

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

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

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

spacebreak: enables or disables line breaks at space characters.

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

Macro `\hologoLogoSetup` also knows:

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

Example:

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

1.4 Driver options

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

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

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

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

`\hologoDriverSetup {<driver option>}`

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

1.5 Font setup

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

`\hologoFontSetup {<key value list>}`

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

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

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

rm: This font is a serif font. It is used for 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 $\mathcal{M}\mathcal{S}$, $\mathcal{N}\mathcal{T}\mathcal{S}$, ϵ_X TeX.

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

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

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

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

1.5.1 Font order

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

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

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

1.6 Additional user macros

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

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

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

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

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

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

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

1.7 Supported contexts

Macros `\hologo` and friends support special contexts:

- L^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}[2017/05/01]
11 \usepackage{longtable}
12 \usepackage{array}
13 \setlength{\extrarowheight}{2pt}
14 \usepackage[T1]{fontenc}
15 \usepackage{lmodern}
16 \usepackage{pdfscape}
17 \usepackage[
18   pdfencoding=auto,
19 ]{hyperref}
20 \hypersetup{
21   pdfauthor={Heiko Oberdiek},
22   pdftitle={Example for package `hologo'},
23   pdfsubject={Logos with fonts lmr, lmss, qtm, qpl, qhv},

```

```

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

```



```

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

```

2 Implementation

```

123 \package

```

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

```

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

```

```

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

```

Package identification:

```

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

```

```

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

```

2.1 Logo list

\hologoList

```

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

```

```

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

```

2.2 Load resources

```

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

```

```

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

```

\Hologo@IfDefined

```

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

```

2.3 Setup macros

\hologoSetup

```

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

```

\hologoLogoSetup

```

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

```

\HOLOGO@Setup

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

2.4 Options

\HOLOGO@DeclareBoolOption

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

\HOLOGO@SetBreakAll

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

```

\HOLOGO@true
431 \def\HOLOGO@true{true}

\HOLOGO@false
432 \def\HOLOGO@false{false}

\HOLOGO@break
433 \def\HOLOGO@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=\HOLOGO@OPT@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

```

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

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

\HoLogoFont@Def

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

\HoLogoFont@LogoDef

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

```

2.6.1 Font defaults

```

\HoLogoFont@font@general

557 \HoLogoFont@Def{general}{}%

\HoLogoFont@font@rm

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

\HoLogoFont@font@sf

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

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

```

```

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

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

\HoLogoFont@font@sc

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

\HoLogoFont@font@sy

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

\HoLogoFont@font@logo

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

```

```

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

```

2.6.2 Font setup

\hologoFontSetup

```

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

```

\hologoLogoFontSetup

```

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

```

\HOLOGO@FontSetup

```

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

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

```

2.7 Generic logo commands

```

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

```

```

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

```

2.7.1 \hologo and friends

```

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

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

\hologo

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

```

```

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

```

\Hologo

```

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

```

\hologoVariant

```

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

```

\HologoVariant

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

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

2.7.2 \hologoRobust and friends

\hologoRobust

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

```

```

835 }%
836 }

```

\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 $\text{\texttt{ini}\TeX}$ do not provide `\MakeUppercase`.

```

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

```

`\HOLOGO@PdfdocUnicode`

```

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

```

`\HOLOGO@Math`

```

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

```

`\HOLOGO@TempDimen`

```

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

```

`\HOLOGO@NegativeKerning`

```

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

```

`\HOLOGO@@@NegativeKerning`

```

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

```


\HOLOGO@SpaceFactor

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

\HOLOGO@Span

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

2.8.1 Text subscript

\HOLOGO@SubScript

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

2.9 T_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-.125emX\HOLOGO@SpaceFactor
975 }
```

\HoLogoHtml@TeX

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

```

984 }%
985 }

```

`\HoLogoCss@TeX`

```

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

```

2.9.2 plain T_EX

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

```

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

```

`\HoLogoCs@plainTeX@space`

```

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

```

`\HoLogoBkm@plainTeX@space`

```

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

```

`\HoLogoHtml@plainTeX@space`

```

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

```

`\HoLogo@plainTeX@hyphen`

```

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

```

`\HoLogoCs@plainTeX@hyphen`

```

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

```

`\HoLogoBkm@plainTeX@hyphen`

```

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

```

`\HoLogoHtml@plainTeX@hyphen`

```

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

```

`\HoLogo@plainTeX@runtogether`

```

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

```

```

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

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

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

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

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

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

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

```

2.9.3 L^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@fontfalse
        \selectfont
        A%
      }%
      \vss
    }%
  }%
  \kern-.15em%
  \TeX
}

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

```

```

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

```

\HoLogo@LaTeX Source: L^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_ε

\HoLogo@LaTeXe Source: L^AT_EX kernel

```

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

```

\HoLogoCs@LaTeXe

```

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

```

\HoLogoBkm@LaTeXe

```

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

```

\HoLogoHtml@LaTeXe

```

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

```

\HoLogoCss@LaTeXe

```

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

```

```

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

```

\HoLogo@LaTeX2e

```

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

```

\HoLogoCs@LaTeX2e

```

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

```

\HoLogoBkm@LaTeX2e

```

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

```

\HoLogoHtml@LaTeX2e

```

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

```

2.9.6 L^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_Exml

\HoLogo@LaTeXML

```

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

```

\HoLogoHtml@pdfLaTeX

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

2.9.8 ϵ -TeX

\HoLogo@eTeX Source: package etex

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

\HoLogoCs@eTeX

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

\HoLogoBkm@eTeX

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

\HoLogoHtml@eTeX

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



```

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

```

2.9.9 iniTeX

\HoLogo@iniTeX

```

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

```

\HoLogoCs@iniTeX

```

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

```

\HoLogoBkm@iniTeX

```

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

```

\HoLogoHtml@iniTeX

```

1281 \let\HoLogoHtml@iniTeX\HoLogo@iniTeX

```

2.9.10 virTeX

\HoLogo@virTeX

```

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

```

\HoLogoCs@virTeX

```

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

```

\HoLogoBkm@virTeX

```

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

```

\HoLogoHtml@virTeX

```

1291 \let\HoLogoHtml@virTeX\HoLogo@virTeX

```

2.9.11 SLiTeX

Definitions of the three variants.

\HoLogo@SLiTeX@lift

```

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

```

```

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

```

\HoLogoBkm@SLiTeX@lift

```

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

```

\HoLogoHtml@SLiTeX@lift

```

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

```

\HoLogoCss@SLiTeX@lift

```

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

```

\HoLogo@SLiTeX@simple

```

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

```

\HoLogoBkm@SLiTeX@simple

```

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

```

\HoLogoHtml@SLiTeX@simple

```

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

```

\HoLogo@SLiTeX@narrow

```

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

```

```

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

```

\HoLogoBkm@SliTeX@narrow

```

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

```

\HoLogoHtml@SliTeX@narrow

```

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

```

\HoLogoCss@SliTeX@narrow

```

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

```

Macro set completion.

\HoLogo@SliTeX@simple

```

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

```

\HoLogoBkm@SliTeX@simple

```

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

```

\HoLogoHtml@SliTeX@simple

```

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

```

\HoLogo@SliTeX@narrow

```

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

```

\HoLogoBkm@SliTeX@narrow

```

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

```

```

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

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

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

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

```

Defaults.

```

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

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

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

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

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

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

```

2.9.12 LuaTeX

```

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

```

```

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

```

2.9.13 LuaLaTeX

```

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

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

```

2.9.14 XeTeX, XeLaTeX

\HOLOGO@IfCharExists

```

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

```

```

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

```

\HoLogo@Xe Source: package dtklogos

```

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

```

```

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

```

\HoLogoHtml@Xe

```

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

```

```

1600 }%
1601 }%
1602 }

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

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

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

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

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

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

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

```



```

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

```

2.9.15 pdfTeX, pdfLaTeX

\HoLogo@pdfTeX

```

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

```

\HoLogoCs@pdfTeX

```

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

```

\HoLogoBkm@pdfTeX

```

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

```

\HoLogoHtml@pdfTeX

```

1662 \let\HoLogoHtml@pdfTeX\HoLogo@pdfTeX

```

\HoLogo@pdfLaTeX

```

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

```

\HoLogoCs@pdfLaTeX

```

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

```

\HoLogoBkm@pdfLaTeX

```

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

```

\HoLogoHtml@pdfLaTeX

```

1672 \let\HoLogoHtml@pdfLaTeX\HoLogo@pdfLaTeX

```

2.9.16 VTeX

\HoLogo@VTeX

```

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

```

\HoLogoHtml@VTeX

```

1678 \let\HoLogoHtml@VTeX\HoLogo@VTeX

```

2.9.17 \mathcal{MS} , ...

Source: class amsdtx

\backslash HoLogo@AmS

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

\backslash HoLogoBkm@AmS

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

\backslash HoLogoHtml@AmS

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

\backslash HoLogoCss@AmS

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

\backslash HoLogo@AmSTeX

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

\backslash HoLogoBkm@AmSTeX

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

\backslash HoLogoHtml@AmSTeX

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

\backslash HoLogo@AmSLaTeX

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

\HoLogoBkm@AmSLaTeX

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

\HoLogoHtml@AmSLaTeX

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

2.9.18 BibTeX

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

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

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

\HoLogoHtml@BibTeX@sc

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

\HoLogoCss@BibTeX@sc

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

```

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

```

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

```

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

```

```

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

```

\HoLogoHtml@BibTeX@sf

```

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

```

\HoLogoCss@BibTeX@sf

```

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

```

```

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

```

\HoLogo@BibTeX

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

\HoLogoHtml@BibTeX

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

2.9.19 BIB_TEX8

\HoLogo@BibTeX8

```

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

```

\HoLogoBkm@BibTeX8

```

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

```

\HoLogoHtml@BibTeX8

```

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

```

2.9.20 Con_TEXt

\HoLogo@ConTeXt@simple

```

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

```

\HoLogoHtml@ConTeXt@simple

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

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

```

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

```

\HoLogoHtml@ConTeXt@narrow

```

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

```

```

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

```

\HoLogoCss@ConTeXt@narrow

```

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

```

\HoLogo@ConTeXt

```

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

```

\HoLogoHtml@ConTeXt

```

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

```

2.9.21 emTeX

\HoLogo@emTeX

```

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

```

\HoLogoCs@emTeX

```

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

```

\HoLogoBkm@emTeX

```

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

```

\HoLogoHtml@emTeX

```

1858 \let\HoLogoHtml@emTeX\HoLogo@emTeX

```

2.9.22 ε_X TeX

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

```

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

```

```

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

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

\HoLogoHtml@ExTeX

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

\HoLogoBkm@ExTeX

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

\HoLogoCss@ExTeX

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

```

2.9.23 MiKTeX

\HoLogo@MiKTeX

```

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

```

\HoLogoHtml@MiKTeX

```

1911 \let\HoLogoHtml@MiKTeX\HoLogo@MiKTeX

```

2.9.24 OzTeX and friends

Source: OzTeX FAQ [6]:

```

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

```

\HoLogo@OzTeX

```

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

```

\HoLogoHtml@OzTeX

```

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

```

\HoLogoCss@OzTeX

```

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

```

\HoLogo@OzMF

```

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

```

\HoLogo@OzMP

```

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

```

\HoLogo@OzTtH

```

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

```


2.9.25 PCT_EX

\HoLogo@PCTeX

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

\HoLogoHtml@PCTeX

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

2.9.26 P_ICT_EX

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

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

\HoLogo@PiC

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

\HoLogoHtml@PiC

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

\HoLogoCss@PiC

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

\HoLogo@PiCTeX

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

\HoLogoHtml@PiCTeX

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

\HoLogoCss@PiCTeX

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

2.9.27 teTeX

\HoLogo@teTeX

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

\HoLogoCs@teTeX

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

\HoLogoBkm@teTeX

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

\HoLogoHtml@teTeX

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

2.9.28 TeX4ht

\HoLogo@TeX4ht

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

\HoLogoHtml@TeX4ht

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

2.9.29 SageTeX

\HoLogo@SageTeX

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

\HoLogoHtml@SageTeX

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

2.10 METAFONT and friends

\HoLogo@METAFONT

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

\HoLogo@METAPOST

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

\HoLogo@MetaFun

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

\HoLogo@MetaPost

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

2.11 Others

2.11.1 biber

\HoLogo@biber

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

\HoLogoCs@biber

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

\HoLogoBkm@biber

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

\HoLogoHtml@biber

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

2.11.2 KOMA-Script

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

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

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

\HoLogoBkm@KOMAScript

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

\HoLogoHtml@KOMAScript

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

\HoLogoCss@KOMAScript

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

```

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

```

2.11.3 LyX

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

```

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

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

```

\HoLogoHtml@LyX

```

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

```

\HoLogoCss@LyX

```

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

```

```

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

```

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

`\HoLogo@NTS` Definition for $\mathcal{N}\mathcal{S}$ can be found in package `etex_man` for the ϵ -T_EX manual [3] and in package `dtklogos` [2]:

```

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

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

```

2.11.5 T_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_TH`

`\HoLogo@TTH`

```

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

```

`\HoLogoHtml@TTH`

```

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

```

2.11.6 Hàn Thế Thành

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

`\HoLogo@HanTheThanh`

```

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

```

```

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

```

\HoLogoBkm@HanTheThanh

```

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

```

\HoLogoHtml@HanTheThanh

```

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

```

2.12 Driver detection

```

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

```

```

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

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

```



```

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

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

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

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

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

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

```

```

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

```

GO@WarningUnsupportedDriver

```

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

```

2.12.1 Reflect box macros

Skip driver part if not needed.

```

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

```

\HOLOGO@ReflectBox

```

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

```

```

2386 \endgroup
2387 }

```

\HOLGO@PointReflectBox

```

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

```

We must define all variants because of dynamic driver setup.

```

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

```

\HOLGO@ScaleBox@pdftex

```

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

```

\HOLGO@ScaleBox@dvips

```

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

```

\HOLGO@ScaleBox@dvipdfm

```

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

```

Since X_YTeX v0.6.

\HOLOGO@ScaleBox@xetex

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

\HOLOGO@ScaleBox@vtex

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

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

3 Test

3.1 Catcode checks for loading

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

```

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

```

```

2549 \end
2550 </test1>

```

3.2 Spacefactor

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

```

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

```

3.3 Complete list

```

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

```

```

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

```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

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

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

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

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

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

4.2 Bundle installation

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

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

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

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

4.3 Package installation

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

```
tex hologo.dtx
```

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

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

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

¹<http://ctan.org/pkg/hologo>

4.4 Refresh file name databases

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

4.5 Some details for the interested

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

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

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

If you insist on using $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ for `docstrip` (really, `docstrip` does not need $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$), then inform the autodetect routine about your intention:

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

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

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

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

An example follows how to generate the documentation with pdf $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$:

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

5 Catalogue

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

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

```

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

```

6 References

- [1] Oren Patashnik, *BIB_{TEX}ing*, 1988-02-08.
[CTAN:biblio/bibtex/base/](#)
- [2] Gerd Neugebauer, DANTE, *Package dtklogos*, 2011-04-25.
[CTAN:usergrps/dante/dtk/dtklogos.sty](#)
- [3] The $\mathcal{N}\mathcal{T}\mathcal{S}$ Team, *The ε - $T_{\text{E}}\text{X}$ manual*, 1998-02.
[CTAN:systems/e-tex/v2/doc/](#)
- [4] The $\varepsilon_X\text{TEX}$ group, *$\varepsilon_X\text{TEX}$: FAQ – How is $\varepsilon_X\text{TEX}$ typeset?*, 2007-04-14.
<http://www.extex.org/documentation/faq.html>
- [5] The L^AX Team, *L^AX – The Document Processor*, 2011-05-08.
<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_{IC}T_{EX} macro package*, 1987-09-21.
[CTAN:graphics/pictex/](#)
- [8] Markus Kohm, *KOMA-Script Datei scrlogo.dtx*, 2009-01-30.
[CTAN:install/macros/latex/contrib/komascript.tds.zip](#)

7 History

[2010/04/08 v1.0]

- The first version.

[2010/04/16 v1.1]

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

[2010/04/24 v1.2]

- L^AT_EX3 added.
- V_TE_X added.

[2010/11/21 v1.3]

- ini_TE_X, vir_TE_X added.

[2011/03/25 v1.4]

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

[2011/04/21 v1.5]

- Wrong TDS directory for test files fixed.

[2011/10/01 v1.6]

- Support for package tex4ht added.
- Support for \csname added if \ifincsname is available.
- New logos: L^AT_EX, biber, BibT_EX (sc, sf), emT_EX, ε_X T_EX, KOMA-Script, L_AX, MiK_T_EX, $\mathcal{N}\mathcal{S}$, OzMF, OzMP, OzT_EX, OzTtH, PCT_EX, P_TC, P_TCT_EX, METAFONT, MetaFun, METAPOST, MetaPost, SLT_EX (lift, narrow, simple), SLiT_EX (narrow, simple, lift), teT_EX.
- Fixes: iniT_EX, pdfL^AT_EX, pdfT_EX, virT_EX.
- \hologoFontSetup and \hologoLogoFontSetup added.
- \hologoVariant and \HologoVariant added.

[2011/11/22 v1.7]

- New logos: BibT_EX8, L^AT_EXML, SageT_EX, T_EX4ht, T_TH.
- X_Ǝ and friends: Driver stuff fixed.
- X_Ǝ and friends: Support for italic added.
- X_Ǝ and friends: Package support for pgf and pstricks added.

[2011/11/29 v1.8]

- New logos: Hàn Thế Thành.

[2011/12/21 v1.9]

- Patch for package ifxetex added for the case that \newif is undefined in iniT_EX.
- Some fixes for iniT_EX.

[2012/04/26 v1.10]

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

[2016/05/12 v1.11]

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

[2016/05/16 v1.12]

- Documentation updates.

[2017/05/01 v1.13]

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

8 Index

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

`\#` 2455
`\$` *804, 1141, 1144, 1152, 1246, 1249, 1257*
`\%` 1078, 1121, 2531
`\&` .. *1142, 1145, 1153, 1247, 1250, 1258*
`\'` 2166
`\-` 519
`\/` 2141, 2143, 2145
`\@` 2456, 2529
`\@PackageError`
..... 369, 402, 440, 452, 635,
658, 665, 817, 849, 1547, 1589, 2257
`\@PackageInfoNoLine` 2243, 2301
`\@PackageWarning` 539
`\@PackageWarningNoLine`
..... 2209, 2336, 2351
`\@currentHref` 2638
`\@ehc` 371, 405, 444, 454, 637,
661, 668, 819, 851, 1547, 1589, 2260
`\@empty` 2571
`\@firstofone` 2464, 2467
`\@gobble` 2461, 2469
`\@gobbletwo` 2596
`\@logo` 2587, 2590, 2594
`\@nil` 911
`\@undefined` *180, 352, 449, 693, 2308, 2325*
`\@` 33, 48, 50, 51, 52,
53, 54, 61, 72, 79, 2530, 2576, 2633
`\{` 2453
`\}` 2454
`\^` 1140, 1245, 1486, 2166, 2174
`\`` .. *2159, 2170, 2173, 2175, 2178, 2180*

Numbers

`\2` 2174
`\9` 2174

`_` 52, 53, 54

A

`\advance` 935,
1528, 1541, 2216, 2494, 2502, 2517
`\aftergroup` 151, 1450, 1452, 1455

B

`\begin` . *40, 41, 47, 107, 2559, 2560, 2616*
`\bfseries` 47
`\body` 2473, 2477
`\bookmark` 69, 76, 2637
`\bookmarksetup` 2610
`\box` 1529, 1542, 2385, 2400

C

`\catcode` 124, 125, 127, 128,
129, 130, 131, 132, 133, 134,
135, 155, 156, 158, 159, 160,

161, 162, 163, 164, 165, 166,
167, 168, 169, 170, 171, 191,
192, 194, 195, 196, 200, 201,
202, 203, 204, 205, 206, 209,
210, 212, 213, 214, 215, 219,
221, 708, 710, 804, 1141, 1142,
1144, 1145, 1152, 1153, 1246,
1247, 1249, 1250, 1257, 1258,
2453, 2454, 2455, 2456, 2491,
2500, 2508, 2512, 2529, 2530, 2531
`\char` 1448, 1501, 2164
`\chardef` 381, 386, 388, 395,
397, 414, 415, 416, 418, 421,
424, 473, 475, 479, 490, 492,
496, 508, 510, 514, 524, 526,
1503, 1510, 1513, 1516, 1519,
1555, 1558, 1561, 1564, 2203, 2218
`\check@mathfonts` 1046
`\chi` 1883
`\closein` 2189, 2191
`\comma@entry` 922
`\comma@parse@normalized` 920
`\contentsname` 2615
`\copy` 2381, 2395
`\count` 2215, 2218
`\count@` 2458, 2487, 2491, 2493,
2494, 2498, 2500, 2501, 2502,
2506, 2508, 2511, 2512, 2516, 2517
`\countdef` 2458

`\csname` 136, 143, 172, 188,
198, 321, 324, 336, 381, 386,
388, 395, 397, 419, 420, 422,
423, 425, 427, 449, 457, 467,
476, 480, 493, 497, 511, 515,
527, 544, 547, 552, 555, 582,
717, 727, 738, 748, 762, 772,
787, 797, 824, 831, 856, 863,
912, 1044, 1094, 1096, 1108,
1186, 1188, 1190, 1192, 1193,
1197, 1202, 1203, 1450, 1452,
1801, 1805, 1810, 1811, 2009,
2013, 2014, 2226, 2380, 2394,
2457, 2460, 2463, 2466, 2521, 2548
`\Css` 987, 995, 1072, 1110, 1115, 1124,
1171, 1176, 1317, 1323, 1373,
1380, 1604, 1626, 1646, 1700,
1747, 1754, 1786, 1792, 1834,
1839, 1894, 1899, 1928, 1967,
1992, 2087, 2092, 2098, 2103, 2128

D

`\DeclareRobustCommand`
..... 611, 809, 841, 873, 888
`\dimendef` 916
`\directlua` 686, 1423, 2318
`\documentclass` 4, 2553, 2603

<code>\dp</code>	1527, 1540	1714, 1719, 1721, 1735, 1743, 1772, 1782, 1802, 1806, 1815, 1822, 1829, 1852, 1856, 1873, 1884, 1891, 1909, 1917, 1924, 1947, 1979, 1982, 1987, 1988, 2002, 2006, 2010, 2019, 2563, 2679
E		
<code>\empty</code>	139, 140	
<code>\end</code>	55, 116, 119, 120, 2549, 2598, 2599, 2666	
<code>\endcsname</code>	136, 143, 172, 188, 198, 321, 324, 336, 381, 386, 389, 395, 398, 419, 420, 422, 423, 426, 427, 449, 457, 467, 476, 480, 493, 497, 511, 515, 527, 544, 547, 552, 555, 582, 717, 727, 738, 748, 762, 772, 787, 797, 824, 831, 856, 863, 912, 1044, 1094, 1096, 1108, 1186, 1188, 1190, 1192, 1193, 1197, 1202, 1203, 1450, 1452, 1801, 1805, 1810, 1811, 2009, 2013, 2014, 2226, 2380, 2394, 2457, 2460, 2463, 2466, 2521, 2548	<code>\HoLogo@{(La)TeX}</code> <u>1093</u> <code>\HOLOGO@@IfCharExists</code> 1444, 1479, 1487, 1493 <code>\HOLOGO@@NegativeKerning</code> 922, <u>931</u> <code>\HOLOGO@@temp</code> 2266, 2283 <code>\HoLogo@AmS</code> <u>1679</u> <code>\HoLogo@AmSLaTeX</code> <u>1718</u> , <u>1724</u> <code>\HoLogo@AmSTeX</code> <u>1711</u> , <u>1717</u> <code>\HOLOGO@AtEnd</code> 217, 218, 248, 249, 662, 669, 2360, 2364, 2367, 2450 <code>\HoLogo@biber</code> 2046, 2055 <code>\HoLogo@BibTeX</code> <u>1799</u> <code>\HoLogo@BibTeX8</code> <u>1801</u> <code>\HoLogo@BibTeX@sc</code> <u>1725</u> <code>\HoLogo@BibTeX@sf</code> <u>1762</u> , <u>1799</u> <code>\HOLOGO@break</code> 412, <u>433</u> <code>\HOLOGO@CheckDriver</code> ... 2294, <u>2303</u> <code>\HOLOGO@CheckRead</code> 2204 <code>\HOLOGO@choice</code> 1503, 1510, 1513, 1516, 1519, 1521, 1555, 1558, 1561, 1564, 1566 <code>\HoLogo@ConTeXt</code> <u>1847</u> <code>\HoLogo@ConTeXt@narrow</code> . <u>1818</u> , <u>1847</u> <code>\HoLogo@ConTeXt@simple</code> . <u>1812</u> , <u>1817</u> <code>\HOLOGO@DeclareBoolOption</code> <u>380</u> , <u>434</u> , <u>435</u> , <u>436</u> , <u>437</u> <code>\HOLOGO@discretionary</code> 505, 1299, 1338, 1355, 1733, 1770, 1814, 1820, 1851, 1871, 1908, 1980, 2001, 2017, 2025, 2032, 2038, 2043, 2048 <code>\HOLOGO@DriverFallback</code> 2285, 2287, 2298 <code>\HOLOGO@DriverSetup</code> 2290, <u>2292</u> , 2374 <code>\HoLogo@emTeX</code> <u>1849</u> , <u>1858</u> <code>\HoLogo@eTeX</code> <u>1236</u> <code>\HoLogo@ExTeX</code> <u>1859</u> <code>\HOLOGO@false</code> 393, <u>432</u> <code>\HOLOGO@FontSetup</code> .. 630, 640, <u>643</u> <code>\HoLogo@HanTheThanh</code> <u>2158</u> <code>\HOLOGO@hyphen</code> 487, 1013, 1713, 1720, 2065 <code>\HOLOGO@IfCharExists</code> 1418, 1500, 2163 <code>\HOLOGO@IfDefined</code> <u>351</u> <code>\HOLOGO@IfExists</code> 351, 657, 664, 720, 741, 765, 790, 910, 2182 <code>\HOLOGO@ifncsname</code> 693, 701 <code>\HoLogo@iniTeX</code> <u>1272</u> , <u>1281</u> <code>\HOLOGO@InputIfExists</code> 2186, 2206, 2227 <code>\HoLogo@KOMAScript</code> <u>2056</u> <code>\HoLogo@La</code> <u>1036</u> <code>\HoLogo@LaTeX</code> <u>1056</u> <code>\HoLogo@LaTeX2e</code> <u>1185</u> <code>\HoLogo@LaTeX3</code> <u>1193</u>
<code>\endhead</code>	114	
<code>\endinput</code>	151, 251	
<code>\endlinechar</code> ...	126, 157, 193, 199, 211	
<code>\endpgfpicture</code>	1535, 1578	
<code>\ensuremath</code>	1166	
<code>\errmessage</code>	2510	
<code>\escapechar</code>	250, 253	
<code>\Expect</code>	2564	
<code>\extrarowheight</code>	13	
F		
<code>\f@series</code>	910, 911	
<code>\f@size</code>	582	
<code>\fmtname</code>	609, 2195, 2237, 2370	
<code>\font</code>	576, 590, 624, 1467, 1504	
<code>\fontdimen</code>	1504	
<code>\fontencoding</code>	613	
<code>\fontfamily</code>	92, 96, 103, 614	
<code>\fontsize</code>	583, 956, 1047	
H		
<code>\hbox</code>	932, 934, 974, 1040, 1042, 1134, 1210, 1298, 1447, 1501, 1526, 1532, 1539, 1545, 1570, 1574, 1581, 1585, 1683, 1953, 2114, 2143, 2166, 2377, 2378, 2381, 2390, 2391, 2393, 2395	
<code>\HCode</code>	941, 943, 1231, 1233, 1599, 2156, 2179	
<code>\hline</code>	49, 113	
<code>\Hologo</code>	4, 72, 79, 86, 109, <u>733</u> , 781	
<code>\hologo</code>	3, 72, 79, 89, 93, 97, 100, 104, 657, 659, <u>712</u> , 756, 1003, 1007, 1010, 1013, 1017, 1020, 1023, 1027, 1030, 1057, 1059, 1068, 1086, 1090, 1104, 1132, 1155, 1162, 1194, 1198, 1206, 1242, 1262, 1269, 1274, 1279, 1284, 1289, 1301, 1312, 1339, 1357, 1368, 1407, 1414, 1614, 1616, 1621, 1622, 1634, 1636, 1641, 1642, 1655, 1660, 1665, 1670, 1675, 1712,	

<code>\HoLogo@LaTeXe</code>	1131 , 1186	<code>\HOLOGO@SetBreakAll</code> .	391 , 400 , 410
<code>\HoLogo@LaTeXML</code>	1204	<code>\HOLOGO@Setup</code>	364 , 374 , 377
<code>\HoLogo@LaTeXTeX</code>	1083 , 1094	<code>\HoLogo@SLiTeX</code>	1397
<code>\HoLogo@LuaLaTeX</code>	1411 , 1417	<code>\HoLogo@SliTeX</code>	1400
<code>\HoLogo@LuaTeX</code>	1403 , 1410	<code>\HoLogo@SLiTeX@lift</code> .	1292 , 1394 , 1397
<code>\HoLogo@LyX</code>	2111	<code>\HoLogo@SliTeX@lift</code>	1394
<code>\HOLOGO@Math</code>	908	<code>\HoLogo@SLiTeX@narrow</code>	1391
<code>\HOLOGO@MathSetup</code>	908 , 1135 , 1165 , 1238 , 1266 , 1862 , 1881	<code>\HoLogo@SliTeX@narrow</code>	1344 , 1391 , 1400
<code>\HOLOGO@mbox</code>	522 , 1003 , 1013 , 1023 , 1205 , 1273 , 1283 , 1404 , 1412 , 1654 , 1664 , 1674 , 1813 , 1815 , 1819 , 1822 , 1850 , 1907 , 1937 , 1940 , 1943 , 1946 , 2000 , 2010 , 2016 , 2024 , 2026 , 2031 , 2033 , 2037 , 2039 , 2042 , 2044 , 2047 , 2049 , 2058 , 2067	<code>\HoLogo@SLiTeX@simple</code>	1388
<code>\HoLogo@METAFONT</code>	2022	<code>\HoLogo@SliTeX@simple</code> .	1333 , 1343 , 1388
<code>\HoLogo@MetaFun</code>	2036	<code>\HOLOGO@space</code>	470 , 1003 , 2160 , 2169
<code>\HoLogo@METAPOST</code>	2029	<code>\HOLOGO@SpaceFactor</code>	937 , 974 , 1956 , 2117 , 2147 , 2153
<code>\HoLogo@MetaPost</code>	2041	<code>\HOLOGO@Span</code>	940 , 978 , 980 , 1063 , 1065 , 1099 , 1101 , 1102 , 1103 , 1161 , 1163 , 1164 , 1216 , 1219 , 1221 , 1225 , 1227 , 1307 , 1310 , 1311 , 1363 , 1366 , 1367 , 1596 , 1598 , 1620 , 1640 , 1692 , 1694 , 1739 , 1741 , 1742 , 1776 , 1779 , 1826 , 1827 , 1879 , 1883 , 1921 , 1923 , 1960 , 1962 , 1986 , 2076 , 2078 , 2080 , 2081 , 2121 , 2123
<code>\HOLOGO@name</code>	363 , 367 , 368 , 370 , 385 , 389 , 394 , 398 , 413 , 419 , 420 , 422 , 423 , 425 , 427 , 439 , 449 , 451 , 453 , 457 , 471 , 472 , 476 , 480 , 488 , 489 , 493 , 497 , 506 , 507 , 511 , 515 , 523 , 527 , 629 , 633 , 634 , 636 , 648 , 651 , 815 , 816 , 818 , 820 , 823 , 824 , 828 , 829 , 831 , 847 , 848 , 850 , 852 , 855 , 856 , 860 , 861 , 863	<code>\HOLOGO@SubScript</code>	945 , 2151
<code>\HOLOGO@NegativeKerning</code>	917 , 1241 , 1406 , 2018	<code>\HOLOGO@temp</code>	383 , 384 , 393 , 411 , 412 , 446 , 447 , 451 , 453 , 458 , 473 , 475 , 479 , 482 , 490 , 492 , 496 , 499 , 508 , 510 , 514 , 517 , 524 , 526 , 529 , 646 , 655 , 656 , 703 , 2187 , 2188 , 2189 , 2191 , 2203 , 2205 , 2208 , 2215 , 2218 , 2226 , 2230 , 2231 , 2233 , 2250 , 2253 , 2254 , 2255 , 2258 , 2268 , 2270 , 2316 , 2328 , 2331 , 2369 , 2370 , 2403 , 2404 , 2415 , 2432 , 2435 , 2443
<code>\HoLogo@NTS</code>	2139	<code>\HOLOGO@TempDimen</code>	916 , 919 , 921 , 926 , 927 , 933 , 935
<code>\HoLogo@OzMF</code>	1936	<code>\HoLogo@teTeX</code>	1999 , 2008
<code>\HoLogo@OzMP</code>	1939	<code>\HoLogo@TeX</code>	973
<code>\HoLogo@OzTeX</code>	1912	<code>\HoLogo@TeX4ht</code>	2009
<code>\HoLogo@OzTtH</code>	1942	<code>\HOLOGO@true</code>	384 , 431
<code>\HoLogo@PCTeX</code>	1945 , 1949	<code>\HoLogo@TTH</code>	2149
<code>\HOLOGO@PdfdocUnicode</code>	901 , 1157 , 1260 , 1890 , 2174	<code>\HOLOGO@Uppercase</code>	861 , 900
<code>\HoLogo@pdfLaTeX</code>	1663 , 1672	<code>\HOLOGO@Variant</code>	463 , 714 , 717 , 724 , 727 , 735 , 738 , 745 , 748 , 816 , 824 , 828 , 831 , 848 , 856 , 860 , 863
<code>\HOLOGO@pdfliteral</code>	2306 , 2310 , 2325 , 2329 , 2406 , 2410	<code>\HoLogo@virTeX</code>	1282 , 1291
<code>\HoLogo@pdfTeX</code>	1653 , 1662	<code>\HoLogo@VTeX</code>	1673 , 1678
<code>\HoLogo@PiC</code>	1950	<code>\HOLOGO@WarningUnsupported-</code> Driver	1522 , 1567 , 2350
<code>\HoLogo@PiCTeX</code>	1978	<code>\HoLogo@Xe</code>	1497
<code>\HoLogo@plainTeX</code>	1032	<code>\HoLogo@XeLaTeX</code>	1633
<code>\HoLogo@plainTeX@hyphen</code>	1012	<code>\HoLogo@XeTeX</code>	1613
<code>\HoLogo@plainTeX@runtogether</code>	1022	<code>\HoLogoBkm@(\La)TeX</code>	1095
<code>\HoLogo@plainTeX@space</code>	1002 , 1032	<code>\HoLogoBkm@AmS</code>	1688
<code>\HOLOGO@PointReflectBox</code>	1544 , 1545 , 2388	<code>\HoLogoBkm@AmSLaTeX</code>	1723
<code>\HOLOGO@ReflectBox</code>	1586 , 2375	<code>\HoLogoBkm@AmSTeX</code>	1716
<code>\HOLOGO@Reflectbox</code>	1584	<code>\HoLogoBkm@biber</code>	2052
<code>\HoLogo@SageTeX</code>	2015 , 2021	<code>\HoLogoBkm@BibTeX8</code>	1805
<code>\HOLOGO@ScaleBox@dvipdfm</code>	2432		
<code>\HOLOGO@ScaleBox@dviPS</code>	2415 , 2433		
<code>\HOLOGO@ScaleBox@pdftex</code>	2404		
<code>\HOLOGO@ScaleBox@vtex</code>	2443		
<code>\HOLOGO@ScaleBox@xetex</code>	2435		

\HoLogoBkm@emTeX	1855	\HoLogoCss@XeLaTeX	1639, 1645
\HoLogoBkm@eTeX	1259	\HoLogoCss@XeTeX	1619, 1625
\HoLogoBkm@ExTeX	1889	\hologoDriver	1508, 1553, 2263, 2289, 2301, 2305, 2342, 2345, 2353, 2380, 2394
\HoLogoBkm@HanTheThanh	2172	\hologoDriverSetup	5, 2288
\HoLogoBkm@iniTeX	1278	\hologoEntry	32, 66, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 2569, 2630
\HoLogoBkm@KOMAScript	2070	\HoLogoFont@Def	551, 557, 561, 564, 569, 572, 578, 580, 592, 594, 599, 602, 620, 626, 649
\HoLogoBkm@LaTeX2e	1189	\HoLogoFont@font	535, 823, 855, 1212, 1293, 1298, 1308, 1334, 1336, 1345, 1349, 1364, 1680, 1691, 1728, 1765, 1778, 1860, 1867, 1878, 2023, 2030, 2057, 2075, 2140
\HoLogoBkm@LaTeX3	1197	\HoLogoFont@font@biber	574
\HoLogoBkm@LaTeXe	1154, 1190	\HoLogoFont@font@general	557
\HoLogoBkm@LaTeXTeX	1092, 1096	\HoLogoFont@font@logo	606
\HoLogoBkm@pdfLaTeX	1669	\HoLogoFont@font@rm	558
\HoLogoBkm@pdfTeX	1659	\HoLogoFont@font@sc	588
\HoLogoBkm@plainTeX	1034	\HoLogoFont@font@sf	566
\HoLogoBkm@plainTeX@hyphen	1016	\HoLogoFont@font@sy	596
\HoLogoBkm@plainTeX@runtogether	1026	\HoLogoFont@LogoDef	554, 651
\HoLogoBkm@plainTeX@space	1006, 1034	\hologoFontSetup	5, 628
\HoLogoBkm@SLiTeX	1398	\HoLogoHtml@LaTeX	1107
\HoLogoBkm@SliTeX	1401	\HoLogoHtml@AmS	1689
\HoLogoBkm@SLiTeX@lift	1304, 1395, 1398	\HoLogoHtml@AmSLaTeX	1724
\HoLogoBkm@SliTeX@lift	1395	\HoLogoHtml@AmSTeX	1717
\HoLogoBkm@SLiTeX@narrow	1392	\HoLogoHtml@biber	2055
\HoLogoBkm@SliTeX@narrow	1360, 1392, 1401	\HoLogoHtml@BibTeX	1800
\HoLogoBkm@SLiTeX@simple	1389	\HoLogoHtml@BibTeX8	1809
\HoLogoBkm@SliTeX@simple	1342, 1389	\HoLogoHtml@BibTeX@sc	1737
\HoLogoBkm@teTeX	2005	\HoLogoHtml@BibTeX@sf	1774, 1800
\HoLogoBkm@virTeX	1288	\HoLogoHtml@ConTeXt	1848
\HoLogoCs@biber	2051	\HoLogoHtml@ConTeXt@narrow	1824, 1848
\HoLogoCs@emTeX	1854	\HoLogoHtml@ConTeXt@simple	1817
\HoLogoCs@eTeX	1245	\HoLogoHtml@emTeX	1858
\HoLogoCs@iniTeX	1277	\HoLogoHtml@eTeX	1264
\HoLogoCs@LaTeX2e	1187	\HoLogoHtml@ExTeX	1876
\HoLogoCs@LaTeXe	1140, 1188	\HoLogoHtml@HanTheThanh	2177
\HoLogoCs@pdfLaTeX	1668	\HoLogoHtml@iniTeX	1281
\HoLogoCs@pdfTeX	1658	\HoLogoHtml@KOMAScript	2073
\HoLogoCs@plainTeX	1033	\HoLogoHtml@LaTeX	1061
\HoLogoCs@plainTeX@hyphen	1015	\HoLogoHtml@LaTeX2e	1191
\HoLogoCs@plainTeX@runtogether	1025	\HoLogoHtml@LaTeX3	1201
\HoLogoCs@plainTeX@space	1005, 1033	\HoLogoHtml@LaTeXe	1159, 1192
\HoLogoCs@teTeX	2004	\HoLogoHtml@LaTeXML	1215
\HoLogoCs@virTeX	1287	\HoLogoHtml@LaTeXTeX	1097, 1108
\HoLogoCss@AmS	1690, 1699	\HoLogoHtml@LuaLaTeX	1417
\HoLogoCss@BibTeX@sc	1738, 1746		
\HoLogoCss@BibTeX@sf	1775, 1785		
\HoLogoCss@ConTeXt@narrow	1825, 1833		
\HoLogoCss@ExTeX	1877, 1893		
\HoLogoCss@KOMAScript	2074, 2086		
\HoLogoCss@LaTeX	1062, 1071, 1217		
\HoLogoCss@LaTeXe	1160, 1170		
\HoLogoCss@LaTeXTeX	1098, 1109		
\HoLogoCss@LyX	2120, 2127		
\HoLogoCss@OzTeX	1920, 1927		
\HoLogoCss@PiC	1959, 1966		
\HoLogoCss@PiCTeX	1985, 1991		
\HoLogoCss@SLiTeX@lift	1306, 1316		
\HoLogoCss@SliTeX@narrow	1362, 1372		
\HoLogoCss@TeX	977, 986, 1218		
\HoLogoCss@Xe	1595, 1603		

<code>\ltx@gobble</code>		P	
	372, 638, 674, 679, 698, 924, 1470	<code>\PackageInfo</code>	148
<code>\ltx@hashchar</code>	1599, 2179	<code>\pagestyle</code>	9
<code>\ltx@ifUndefined</code>		<code>\par</code>	2627
	335, 368, 451, 537, 538,	<code>\pdf@filesize</code>	2230
	558, 559, 566, 567, 574, 575,	<code>\pdfextension</code>	2308, 2309
	588, 589, 596, 597, 610, 618,	<code>\pdfliteral</code>	2306, 2309, 2310, 2337
	623, 634, 677, 707, 805, 806,	<code>\penalty</code>	483
	816, 822, 828, 837, 838, 848,	<code>\pgfpicture</code>	1533, 1575
	854, 860, 869, 870, 884, 885,	<code>\pgftext</code>	1531, 1534, 1573, 1577
	946, 947, 952, 1443, 1464, 1465,	<code>\pgftransformxscale</code>	1576
	1505, 1506, 1507, 1508, 1550,	<code>\ProcessKeyvalOptions</code>	2372
	1551, 1552, 1553, 2185, 2202,	<code>\protected</code>	812, 844, 876, 891, 2309
	2312, 2335, 2358, 2359, 2363, 2366	<code>\ProvidesPackage</code>	141, 189
<code>\ltx@ifundefined</code> 465, 471, 472, 488,		<code>\psscalebox</code>	1537, 1539, 1580, 1582
	489, 506, 507, 523, 714, 724,		
	725, 735, 745, 746, 759, 769,	Q	
	770, 784, 794, 795, 1043, 1485, 2295	<code>\quad</code>	2622, 2624
<code>\ltx@LocDimenA</code>			
	1527, 1528, 1529, 1540, 1541, 1542	R	
<code>\ltx@mbox</code>	500, 530, 948,	<code>\raise</code>	1298, 1529, 1542, 2166, 2393
	964, 1237, 1265, 1335, 1346,	<code>\raisebox</code>	68
	1861, 1880, 2150, 2159, 2161, 2170	<code>\RangeCatcodeCheck</code>	2505, 2533,
<code>\ltx@minusone</code>	2216		2534, 2535, 2536, 2537, 2538,
<code>\ltx@newif</code>	336		2539, 2540, 2541, 2542, 2543, 2544
<code>\ltx@one</code>	386, 389, 1504	<code>\RangeCatcodeInvalid</code>	
<code>\ltx@onelevel@sanitize</code>	2254		2497, 2525, 2526, 2527, 2528
<code>\ltx@secondoftwo</code>		<code>\reflectbox</code>	1571
	353, 356, 738, 749, 787,	<code>\renewcommand</code>	2615
	798, 857, 864, 903, 1436, 1460, 1476	<code>\repeat</code>	2472, 2484, 2495, 2503, 2518
<code>\ltx@space</code>	485, 659, 666	<code>\RequirePackage</code>	341, 342, 343,
<code>\ltx@two</code>			344, 345, 346, 347, 348, 349, 2371
	2378, 2384, 2385, 2391, 2399, 2400	<code>\RestoreCatcodes</code> 2486, 2489, 2490, 2545	
<code>\ltx@undefined</code>	2289	<code>\rm</code>	561
<code>\ltx@zero</code>	381, 395, 398, 916, 932,	<code>\rmfamily</code>	564
	933, 934, 935, 1040, 1041, 1435,	<code>\rotatebox</code>	1524, 1526
	1446, 1447, 1449, 1467, 1473,		
	1503, 1526, 1527, 1529, 1539,	S	
	1540, 1542, 2377, 2379, 2381,	<code>\sbox</code>	2562
	2384, 2390, 2392, 2393, 2395, 2399	<code>\scriptsize</code>	2623
<code>\luatexversion</code>	678, 1419, 2313	<code>\scshape</code>	594
		<code>\section</code>	43, 2631
M		<code>\selectfont</code> 92, 96, 103, 585, 615, 956, 1048	
<code>\makeatletter</code>	2567, 2629	<code>\setbox</code>	932, 934, 1040, 1447,
<code>\makeatother</code>	2664		1526, 1539, 2377, 2378, 2390, 2391
<code>\math@fontsfalse</code>	584, 1048	<code>\setlength</code>	13
<code>\mathrm</code>	953	<code>\SetVariant</code>	60, 67, 88, 91, 95, 99, 102
<code>\mathsurround</code>	581, 909, 949, 965	<code>\sf</code>	569
<code>\mbox</code>	955	<code>\sf@size</code>	583, 956, 1047
<code>\MessageBreak</code>	403, 442,	<code>\sffamily</code>	572
	659, 666, 2210, 2352, 2353, 2354	<code>\space</code>	72, 79,
			443, 2511, 2512, 2520, 2564, 2633
N		<code>\spacefactor</code>	938, 2564
<code>\NeedsTeXFormat</code>	3, 2552, 2602	<code>\special</code>	2417,
<code>\newcommand</code>	32, 60, 66, 2561		2425, 2437, 2438, 2440, 2445, 2447
<code>\newpage</code>	2662	T	
<code>\next</code>	2478, 2480, 2482	<code>\tableofcontents</code>	2617
<code>\not@math@alphabet</code>	612	<code>\tabularnewline</code>	105, 112
<code>\number</code>	1426, 1431, 2513	<code>\tenlogo</code>	624, 626
		<code>\tensc</code>	576, 578, 590, 592
O		<code>\tensy</code>	599
<code>\openin</code>	2187	<code>\Test</code>	2524, 2547, 2561, 2594

<code>\TestFont</code>	2618, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661
<code>\TestList</code>	2568, 2570, 2571, 2573, 2584
<code>\TeX</code>	52, 53, 54
<code>\texorpdfstring</code>	720, 741, 765, 790
<code>\text</code>	966
<code>\textbf</code>	48, 108, 110, 111
<code>\textchi</code>	1890
<code>\textepsilon</code>	1157, 1260, 1890
<code>\textit</code>	108
<code>\textsf</code>	100
<code>\textstyle</code>	1137, 1166, 1864, 1882, 1883
<code>\textsubscript</code>	970
<code>\texttt</code>	82, 84, 109
<code>\the</code>	199, 200, 201, 202, 203, 204, 205, 206, 219, 250, 2218, 2491, 2511, 2512, 2564
<code>\TMP@EnsureCode</code>	216, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247
<code>\TMP@RequirePackage</code>	322, 328, 329, 330, 331, 332, 333, 334, 338, 339
<code>\tracinglostchars</code>	1446
<code>\typeout</code>	30, 31, 33, 36, 37
U	
<code>\uppercase</code>	900
<code>\usefont</code>	603, 2620
<code>\usepackage</code>	5, 10, 11, 12, 14, 15, 16, 17, 25, 2554, 2555, 2556, 2604, 2605, 2606, 2607, 2608, 2609
V	
<code>\varepsilon</code>	1137, 1166, 1239, 1267, 1865, 1882
<code>\vbox</code>	1041
<code>\vss</code>	1052
W	
<code>\wd</code>	933, 935, 2379, 2384, 2392, 2399
<code>\write</code>	145, 174
X	
<code>\x</code>	136, 137, 140, 144, 148, 150, 173, 178, 188, 197, 209, 607, 609, 2193, 2195, 2217, 2221, 2235, 2237, 2297, 2299
<code>\XeTeXcharglyph</code>	1473
<code>\XeTeXfonttype</code>	1467