

# The `hologo` package

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## Abstract

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

## Contents

<b>1</b>	<b>Documentation</b>	<b>3</b>
1.1	Logo macros . . . . .	3
1.2	Setup macros . . . . .	4
1.3	Options . . . . .	5
1.4	Driver options . . . . .	5
1.5	Font setup . . . . .	6
1.5.1	Font order . . . . .	6
1.6	Additional user macros . . . . .	7
1.7	Supported contexts . . . . .	7
1.8	Example . . . . .	7
<b>2</b>	<b>Implementation</b>	<b>10</b>
2.1	Logo list . . . . .	12
2.2	Load resources . . . . .	13
2.3	Setup macros . . . . .	14
2.4	Options . . . . .	14
2.5	Break/no-break support . . . . .	16
2.6	Font support . . . . .	17
2.6.1	Font defaults . . . . .	18
2.6.2	Font setup . . . . .	20
2.7	Generic logo commands . . . . .	21
2.7.1	<code>\hologo</code> and friends . . . . .	21
2.7.2	<code>\hologoRobust</code> and friends . . . . .	23
2.8	Helpers . . . . .	25
2.8.1	Text subscript . . . . .	26
2.9	$\mathrm{T}_\mathrm{E}X$ and friends . . . . .	27
2.9.1	$\mathrm{T}_\mathrm{E}X$ . . . . .	27
2.9.2	plain $\mathrm{T}_\mathrm{E}X$ . . . . .	28
2.9.3	$\mathrm{L}^{\mathrm{A}}\mathrm{T}_\mathrm{E}X$ . . . . .	29
2.9.4	$(\mathrm{L}^{\mathrm{A}})\mathrm{T}_\mathrm{E}X$ . . . . .	30
2.9.5	$\mathrm{L}^{\mathrm{A}}\mathrm{T}_\mathrm{E}X 2_\epsilon$ . . . . .	32
2.9.6	$\mathrm{L}^{\mathrm{A}}\mathrm{T}_\mathrm{E}X 3$ . . . . .	33
2.9.7	$\mathrm{L}^{\mathrm{A}}\mathrm{T}_\mathrm{E}X\mathrm{ML}$ . . . . .	34

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

2.9.8	$\varepsilon$ -TeX	34
2.9.9	iniTeX	35
2.9.10	virTeX	35
2.9.11	SLiTeX	36
2.9.12	LuaTeX	39
2.9.13	Lua <sup>La</sup> TeX	39
2.9.14	X <sub>q</sub> TeX, X <sub>q</sub> <sup>La</sup> TeX	39
2.9.15	pdfTeX, pdf <sup>La</sup> TeX	44
2.9.16	VTeX	44
2.9.17	$\mathcal{A}\mathcal{M}\mathcal{S}$ , ...	45
2.9.18	B <sub>W</sub> TeX	46
2.9.19	B <sub>W</sub> TeX8	48
2.9.20	ConTeXt	48
2.9.21	emTeX	49
2.9.22	$\varepsilon_X$ TeX	50
2.9.23	MiKTeX	51
2.9.24	OzTeX and friends	51
2.9.25	PCTeX	52
2.9.26	PiCTeX	52
2.9.27	teTeX	54
2.9.28	TeX4ht	54
2.9.29	SageTeX	54
2.10	METAFONT and friends	54
2.11	Others	55
2.11.1	biber	55
2.11.2	KOMA-Script	55
2.11.3	LyX	57
2.11.4	$\mathcal{N}\mathcal{T}\mathcal{S}$	57
2.11.5	T <sub>T</sub> H (TeX to HTML translator)	58
2.11.6	Hàn Thế Thành	58
2.12	Driver detection	59
2.12.1	Reflect box macros	62
<b>3</b>	<b>Test</b>	<b>64</b>
3.1	Catcode checks for loading	64
3.2	Spacefactor	66
3.3	Complete list	67
<b>4</b>	<b>Installation</b>	<b>68</b>
4.1	Download	68
4.2	Bundle installation	69
4.3	Package installation	69
4.4	Refresh file name databases	69
4.5	Some details for the interested	69
<b>5</b>	<b>References</b>	<b>70</b>
<b>6</b>	<b>History</b>	<b>70</b>
	[2010/04/08 v1.0]	70
	[2010/04/16 v1.1]	70
	[2010/04/24 v1.2]	70
	[2010/11/21 v1.3]	70
	[2011/03/25 v1.4]	71
	[2011/04/21 v1.5]	71

[2011/10/01 v1.6]	71
[2011/11/22 v1.7]	71
[2011/11/29 v1.8]	71
[2011/12/21 v1.9]	71
[2012/04/26 v1.10]	71
[2016/05/12 v1.11]	71
[2016/05/16 v1.12]	72
[2017/05/01 v1.13]	72

# 1 Documentation

## 1.1 Logo macros

`\hologo {⟨name⟩}`

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

name	variant	logo	since
(La)TeX		(L)TeX	2011/10/01
AmSLaTeX		$\mathcal{A}\mathcal{M}\mathcal{S}$ -L <sub>ATEX</sub>	2010/04/16
AmSTeX		$\mathcal{A}\mathcal{M}\mathcal{S}$ -T <sub>EX</sub>	2010/04/16
biber		biber	2011/10/01
BibTeX		B <sub>IB</sub> T <sub>EX</sub>	2011/10/01
BibTeX	sf	B <sub>IB</sub> T <sub>EX</sub>	2011/10/01
BibTeX	sc	B <sub>IB</sub> T <sub>EX</sub>	2011/10/01
BibTeX8		B <sub>IB</sub> T <sub>EX</sub> 8	2011/11/22
ConTeXt		ConT <sub>EX</sub> t	2011/03/25
ConTeXt	narrow	ConT <sub>EX</sub> t	2011/03/25
ConTeXt	simple	ConT <sub>EX</sub> t	2011/03/25
emTeX		emT <sub>EX</sub>	2010/04/26
eTeX		$\varepsilon$ -T <sub>EX</sub>	2010/04/08
ExTeX		$\varepsilon_X$ -T <sub>EX</sub>	2011/10/01
HànThếThành		Hàn Thế Thành	2011/11/29
iniTeX		iniT <sub>EX</sub>	2011/10/01
KOMAScript		KOMA-Script	2011/10/01
La		L <sup>A</sup>	2010/05/08
LaTeX		L <sup>A</sup> T <sub>EX</sub>	2010/04/08
LaTeX2e		L <sup>A</sup> T <sub>EX</sub> 2 <sub><math>\varepsilon</math></sub>	2010/04/08
LaTeX3		L <sup>A</sup> T <sub>EX</sub> 3	2010/04/24
LaTeXe		L <sup>A</sup> T <sub>EX</sub> 2 <sub><math>\varepsilon</math></sub>	2010/04/08
LaTeXML		L <sup>A</sup> T <sub>EX</sub> ML	2011/11/22
LaTeXTeX		(L)TeX	2011/10/01
LuaLaTeX		LuaL <sup>A</sup> T <sub>EX</sub>	2010/04/08
LuaTeX		LuaT <sub>EX</sub>	2010/04/08
LyX		L <sub>Y</sub> X	2011/10/01
METAFONT		METAFONT	2011/10/01
MetaFun		MetaFun	2011/10/01
METAPOST		METAPOST	2011/10/01
MetaPost		MetaPost	2011/10/01
MiKTeX		MiK <sub>T</sub> EX	2011/10/01
NTS		$\mathcal{N}\mathcal{T}\mathcal{S}$	2011/10/01

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

`\Hologo {⟨name⟩}`

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

## 1.2 Setup macros

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

`\hologoSetup {⟨key value list⟩}`

Macro `\hologoSetup` sets global options.

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

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

### 1.3 Options

There are boolean and string options:

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

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

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

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

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

**spacebreak:** enables or disables line breaks at space characters.

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

Macro `\hologoLogoSetup` also knows:

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

Example:

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

### 1.4 Driver options

Sometimes graphical operations are needed to construct some glyphs (e.g.  $\text{\X}\text{\TeX}$ ). If package `graphics` or package `pgf` are found, then the macros are taken from there. Otherwise the package defines its own operations and therefore needs the driver information. Many drivers are detected automatically (`pdfTeX`/`LuaTeX` in PDF mode, `XYTeX`, `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.

<code>\hologoDriverSetup {(&lt;driver option&gt;)}</code>
---

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  $\text{\TeX}$ . Therefore the package provides some ways to influence the font settings. The options below take font settings as values. Both font commands such as  $\text{\sf}$  and macros that take one argument like  $\text{\textsf}$  can be used.

$\text{\hologoFontSetup}$   $\{ \langle key\ value\ list \rangle \}$

Macro  $\text{\hologoFontSetup}$  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  $\text{\BibTeX}$  with variant  $\text{\sf}$ .

**rm:** This font is a serif font. It is used for  $\text{\varepsilon_XTeX}$ .

**sc:** This font specifies a small caps font. It is used for  $\text{\BibTeX}$  with variant  $\text{\sc}$ .

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

**sy:** This is the font for math symbols (e.g.  $\text{\cmt}$ ). It is used by  $\mathcal{M}$ ,  $\mathcal{N}$ ,  $\varepsilon_X\text{\TeX}$ .

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

$\text{\hologoLogoFontSetup}$   $\{ \langle logo \rangle \} \{ \langle key\ value\ list \rangle \}$

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

$\langle logo \rangle$	keys	result
$\text{\BibTeX}$	bibsf	$\text{\BibTeX}$
$\text{\BibTeX}$	sc	$\text{\BibTeX}$
$\text{\ExTeX}$	rm	$\varepsilon_X\text{\TeX}$
$\text{\SliTeX}$	rm	$\text{\SliTeX}$
$\text{\AmS}$	sy	$\mathcal{M}$
$\text{\ExTeX}$	sy	$\varepsilon_X\text{\TeX}$
$\text{\NTS}$	sy	$\mathcal{N}$
$\text{\KOMAScript}$	sf	KOMA-Script
$\text{\METAFONT}$	logo	$\text{\METAFONT}$
$\text{\METAPOST}$	logo	$\text{\METAPOST}$
$\text{\SliTeX}$	sc $\text{\SliTeX}$	

### 1.5.1 Font order

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

$\text{\hologoFontSetup}\{\text{\general}=\text{\color{red}}\}$

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

## 1.6 Additional user macros

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

```
\hologoVariant {\langle name \rangle} {\langle variant \rangle}
\HologoVariant {\langle name \rangle} {\langle variant \rangle}
```

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, ...).

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

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

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

## 1.7 Supported contexts

Macros `\hologo` and friends support special contexts:

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

## 1.8 Example

The following example prints the logos in different fonts.

```
1 \documentclass{article}
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{pdflscape}
17 \usepackage[
18   pdfencoding=auto,
19 ]{hyperref}
20 \hypersetup{
21   pdfauthor={Heiko Oberdiek},
22   pdftitle={Example for package `hologo'},
23   pdfsubject={Logos with fonts lmr, lmss, qtm, qpl, qhv},
24 }
25 \usepackage{bookmark}
26
27 % Print the logo list on the console
28
29 \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}{llllllll}%
108   \textbf{\textit{logo}} & \textbf{\textit{variant}} & & & & & & & \\
109   \texttt{\string\Hologo} & & & & & & & & \\
110   \textbf{lmr} & \textbf{qtm} & \textbf{qpl} & & & & & & \\
111   \textbf{lmss} & \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<sup>A</sup>T<sub>E</sub>X.

```
124 \begingroup\catcode61\catcode48\catcode32=10\relax%
125   \catcode13=5 % ^^M
126   \endlinechar=13 %
127   \catcode35=6 % #
128   \catcode39=12 % '
129   \catcode44=12 % ,
130   \catcode45=12 % -
131   \catcode46=12 % .
132   \catcode58=12 % :
133   \catcode64=11 % @
134   \catcode123=1 % {
135   \catcode125=2 % }
136   \expandafter\let\expandafter\x\csname ver@hologo.sty\endcsname
137   \ifx\x\relax % plain-TeX, first loading
138   \else
139     \def\empty{}%
140     \ifx\x\empty % LaTeX, first loading,
141       % variable is initialized, but \ProvidesPackage not yet seen
142     \else
143       \expandafter\ifx\csname PackageInfo\endcsname\relax
144         \def\x#1#2{%
145           \immediate\write-1{Package #1 Info: #2.}%
146         }%
147       \else
148         \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
149       \fi
150       \x{hologo}{The package is already loaded}%
151       \aftergroup\endinput
152     \fi
153   \fi
154 \endgroup%
```

Package identification:

```
155 \begingroup\catcode61\catcode48\catcode32=10\relax%
156   \catcode13=5 % ^^M
157   \endlinechar=13 %
158   \catcode35=6 % #
159   \catcode39=12 % '
160   \catcode40=12 % (
161   \catcode41=12 % )
162   \catcode44=12 % ,
163   \catcode45=12 % -
164   \catcode46=12 % .
165   \catcode47=12 % /
166   \catcode58=12 % :
167   \catcode64=11 % @
168   \catcode91=12 % [
169   \catcode93=12 % ]
170   \catcode123=1 % {
171   \catcode125=2 % }
172   \expandafter\ifx\csname ProvidesPackage\endcsname\relax
173     \def\x#1#2#3[#4]{\endgroup
174       \immediate\write-1{Package: #3 #4}%
175       \xdef#1{#4}%
176     }%
```

```

177 \else
178   \def\x#1#2[#3]{\endgroup
179     #2[#3]}%
180   \ifx#1\@undefined
181     \xdef#1[#3]%
182   \fi
183   \ifx#1\relax
184     \xdef#1[#3]%
185   \fi
186 }%
187 \fi
188 \expandafter\x\csname ver@hologo.sty\endcsname
189 \ProvidesPackage{hologo}%
190 [2017/05/01 v1.13 A logo collection with bookmark support (H0)]%
191 \begingroup\catcode61\catcode48\catcode32=10\relax%
192 \catcode13=5 % ^~M
193 \endlinechar=13 %
194 \catcode123=1 % {
195 \catcode125=2 % }
196 \catcode64=11 % @
197 \def\x{\endgroup
198   \expandafter\edef\csname HOLOGO@AtEnd\endcsname{%
199     \endlinechar=\the\endlinechar\relax
200     \catcode13=\the\catcode13\relax
201     \catcode32=\the\catcode32\relax
202     \catcode35=\the\catcode35\relax
203     \catcode61=\the\catcode61\relax
204     \catcode64=\the\catcode64\relax
205     \catcode123=\the\catcode123\relax
206     \catcode125=\the\catcode125\relax
207   }%
208 }%
209 \x\catcode61\catcode48\catcode32=10\relax%
210 \catcode13=5 % ^~M
211 \endlinechar=13 %
212 \catcode35=6 % #
213 \catcode64=11 % @
214 \catcode123=1 % {
215 \catcode125=2 % }
216 \def\TMP@EnsureCode#1#2{%
217   \edef\HOLOGO@AtEnd{%
218     \HOLOGO@AtEnd
219     \catcode#1=\the\catcode#1\relax
220   }%
221   \catcode#1=#2\relax
222 }
223 \TMP@EnsureCode{10}{12}% ^~J
224 \TMP@EnsureCode{33}{12}% !
225 \TMP@EnsureCode{34}{12}% "
226 \TMP@EnsureCode{36}{3}% $
227 \TMP@EnsureCode{38}{4}% &
228 \TMP@EnsureCode{39}{12}% '
229 \TMP@EnsureCode{40}{12}% (
230 \TMP@EnsureCode{41}{12}% )
231 \TMP@EnsureCode{42}{12}% *
232 \TMP@EnsureCode{43}{12}% +
233 \TMP@EnsureCode{44}{12}% ,
234 \TMP@EnsureCode{45}{12}% -

```

```

235 \TMP@EnsureCode{46}{12}% .
236 \TMP@EnsureCode{47}{12}% /
237 \TMP@EnsureCode{58}{12}% :
238 \TMP@EnsureCode{59}{12}% ;
239 \TMP@EnsureCode{60}{12}% <
240 \TMP@EnsureCode{62}{12}% >
241 \TMP@EnsureCode{63}{12}% ?
242 \TMP@EnsureCode{91}{12}% [
243 \TMP@EnsureCode{93}{12}% ]
244 \TMP@EnsureCode{94}{7}% ^ (superscript)
245 \TMP@EnsureCode{95}{8}% _ (subscript)
246 \TMP@EnsureCode{96}{12}% `
247 \TMP@EnsureCode{124}{12}% |
248 \edef\HOLOGO@AtEnd{%
249   \HOLOGO@AtEnd
250   \escapechar\the\escapechar\relax
251   \noexpand\endinput
252 }
253 \escapechar=92 %

```

## 2.1 Logo list

\hologoList

```

254 \def\hologoList{%
255   \hologoEntry{(La)TeX}{-}{2011/10/01}%
256   \hologoEntry{AmSLaTeX}{-}{2010/04/16}%
257   \hologoEntry{AmSTeX}{-}{2010/04/16}%
258   \hologoEntry{biber}{-}{2011/10/01}%
259   \hologoEntry{BibTeX}{-}{2011/10/01}%
260   \hologoEntry{BibTeX}{sf}{2011/10/01}%
261   \hologoEntry{BibTeX}{sc}{2011/10/01}%
262   \hologoEntry{BibTeX8}{-}{2011/11/22}%
263   \hologoEntry{ConTeXt}{-}{2011/03/25}%
264   \hologoEntry{ConTeXt}{narrow}{2011/03/25}%
265   \hologoEntry{ConTeXt}{simple}{2011/03/25}%
266   \hologoEntry{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@\HOLGO@name\endcsname\ltx@one
390   \fi
391   \HOLGO@SetBreakAll{#1}%
392 \else
393   \ifx\HOLGO@temp\HOLGO@false
394     \ifx\HOLGO@name\relax
395       \expandafter\chardef\csname HOLGOOPT@#1\endcsname=\ltx@zero
396     \else
397       \expandafter\chardef\csname
398       HoLogoOpt@#1@\HOLGO@name\endcsname=\ltx@zero
399     \fi
400     \HOLGO@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 }

```

\HOLGO@SetBreakAll

```

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

```

\HOLGO@true

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

\HOLGO@false

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

\HOLGO@break

```

433 \def\HOLGO@break{break}

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

```

```

438 \kv@define@key{HoLogo}{variant}{%
439   \ifx\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\HOLG@hyphen{%
488   \ltx@ifundefined{HoLogoOpt@hyphenbreak@\HOLG@name}{%
489     \ltx@ifundefined{HoLogoOpt@break@\HOLG@name}{%
490       \chardef\HOLG@temp=\HOLG@OPT@hyphenbreak
491     }{%
492       \chardef\HOLG@temp=%
493       \csname HoLogoOpt@break@\HOLG@name\endcsname
494     }%
495   }{%
496     \chardef\HOLG@temp=%
497     \csname HoLogoOpt@hyphenbreak@\HOLG@name\endcsname
498   }%
499   \ifcase\HOLG@temp
500     \ltx@mbox{-}%
501   \else
502     -%
503   \fi
504 }

```

\HOLG@discretionary

```

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

```

\HOLG@mbox

```

522 \def\HOLG@mbox#1{%
523   \ltx@ifundefined{HoLogoOpt@break@\HOLG@name}{%
524     \chardef\HOLG@temp=\HOLG@OPT@hyphenbreak
525   }{%
526     \chardef\HOLG@temp=%
527     \csname HoLogoOpt@break@\HOLG@name\endcsname
528   }%
529   \ifcase\HOLG@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@bibs

In case of plain  $\text{\TeX}$  the original small caps variant is used as default. In  $\text{\LaTeX}$  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=cmcsc10\relax
577   }{}%
578   \HoLogoFont@Def{bibs}{\tensc}%
579 }{%
580   \HoLogoFont@Def{bibs}{%
581     $\mathsurround=0pt$%
582     \csname S@\f@size\endcsname
583     \fontsize\sf@size{0pt}%
584     \math@fontsfalse
585     \selectfont
586   }%
587 }

```

\HoLogoFont@font@sc

```

588 \ltx@ifundefined{scshape}{%
589   \ltx@ifundefined{tensc}{%
590     \font\tensc=cmcsc10\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

\holoFontSetup

```

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

```

\holoLogoFontSetup

```

632 \def\holoLogoFontSetup#1{%
633 \edef\HOLOGO@name{#1}%
634 \ltx@ifundefined{HoLogo@\HOLOGO@name}{%
635 \@PackageError{holo}{%
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{ifincsn}{%
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@', {'ifincsn'})%
689         else %
690           tex.print('1')%
691         end%
692       }%
693     \ifx\HOLOGO@ifincsn\@undefined 1\fi%
694     \relax
695     \expandafter\ltx@firstofone
696   \else
697     \endgroup
698     \expandafter\ltx@gobble
699   \fi
700   {%
701     \global\let\ifincsn\HOLOGO@ifincsn
702   }%
703   \HOLOGO@temp
704 }%
705 }{}%
706 }

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

\hologoVariant
754 \def\hologoVariant#1#2{%
755 \ifx\relax#2\relax
756 \hologo{#1}%
757 \else
758 $ \ifincsname
759 $ \ltx@ifundefined{HoLogoCs@#1@#2}{%
760 $ #1%
761 $ }{%
762 $ \csname HoLogoCs@#1@#2\endcsname\ltx@firstoftwo

```

```

763 $    }%
764 $    \else
765        \Hologo@IfExists\texorpdfstring\texorpdfstring\ltx@firstoftwo
766        {%
767            \hologoVariantRobust{#1}{#2}%
768        }{%
769            \ltx@ifundefined{HoLogoBkm@#1@#2}{%
770                \ltx@ifundefined{HoLogo@#1}{?#1?}{#1}%
771            }{%
772                \csname HoLogoBkm@#1@#2\endcsname
773                \ltx@firstoftwo
774            }%
775        }%
776 $    \fi
777 \fi
778 }

```

\HologoVariant

```

779 \def\HologoVariant#1#2{%
780     \ifx\relax#2\relax
781         \Hologo{#1}%
782     \else
783 $     \ifincsname
784 $         \ltx@ifundefined{HoLogoCs@#1@#2}{%
785 $             #1%
786 $         }{%
787 $             \csname HoLogoCs@#1@#2\endcsname\ltx@secondoftwo
788 $         }%
789 $     \else
790         \Hologo@IfExists\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                 \csname HoLogoBkm@#1@#2\endcsname
798                 \ltx@secondoftwo
799             }%
800         }%
801 $     \fi
802 \fi
803 }

804 \catcode`\$=3 %

```

## 2.7.2 \hologoRobust and friends

\hologoRobust

```

805 \ltx@ifundefined{protected}{%
806     \ltx@ifundefined{DeclareRobustCommand}{%
807         \def\hologoRobust#1%
808         }{%
809             \DeclareRobustCommand*\hologoRobust[1]%
810         }%
811     }{%
812         \protected\def\hologoRobust#1%
813     }%

```

```

814 {%
815   \edef\HOLOGO@name{#1}%
816   \ltx@ifundefined{HoLogo@\HOLOGO@Variant\HOLOGO@name}{%
817     \@PackageError{hologo}{%
818       Unknown logo `\'HOLOGO@name'%
819     }\@ehc
820     ?\'HOLOGO@name?%
821   }{%
822     \ltx@ifundefined{ver@tex4ht.sty}{%
823       \HoLogoFont@font\HOLOGO@name{general}{%
824         \csname HoLogo@\HOLOGO@Variant\HOLOGO@name\endcsname
825         \ltx@firstoftwo
826       }%
827     }{%
828       \ltx@ifundefined{HoLogoHtml@\HOLOGO@Variant\HOLOGO@name}{%
829         \HOLOGO@name
830       }{%
831         \csname HoLogoHtml@\HOLOGO@Variant\HOLOGO@name\endcsname
832         \ltx@firstoftwo
833       }%
834     }%
835   }%
836 }

```

\HologoRobust

```

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

```



`\hologoVariantRobust`

```

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

`\HologoVariantRobust`

```

884 \ltx@ifundefined{protected}{%
885   \ltx@ifundefined{DeclareRobustCommand}{%
886     \def\HologoVariantRobust#1#2%
887   }{%
888     \DeclareRobustCommand*\HologoVariantRobust[2]%
889   }%
890 }{%
891   \protected\def\HologoVariantRobust#1#2%
892 }%
893 {%
894   \begingroup
895     \hologoLogoSetup{#1}{variant={#2}}%
896     \HologoRobust{#1}%
897   \endgroup
898 }
```

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

```

899 \def\hologorobust{\hologoRobust}
```

## 2.8 Helpers

`\HOLOGO@Uppercase` Macro `\HOLOGO@Uppercase` is restricted to `\uppercase`, because plain  $\text{\TeX}$  or  $\text{\iniTeX}$  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   \mathsurroundOpt\relax
910   \HOLOGO@IfExists\series{%
911     \if b\expandafter\ltx@car\series x\@nil
```

```

912     \csname boldmath\endcsname
913     \fi
914   }{}%
915 }

```

\HOLOGO@TempDimen

```

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

```

\HOLOGO@NegativeKerning

```

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

```

\HOLOGO@@NegativeKerning

```

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

```

\HOLOGO@SpaceFactor

```

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

```

\HOLOGO@Span

```

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

```

### 2.8.1 Text subscript

\HOLOGO@SubScript

```

945 \def\HOLOGO@SubScript#1{%
946   \ltx@ifundefined{textsubscript}{%
947     \ltx@ifundefined{text}{%
948       \ltx@mbox{%
949         \mathsurround=0pt\relax
950         $%
951         _{%
952           \ltx@ifundefined{sf@size}{%
953             \mathrm{#1}%
954           }{%

```

```

955         \mbox{%
956             \fontsize\sf@size{0pt}\selectfont
957             #1%
958         }%
959     }%
960 }%
961 $%
962 }%
963 }{%
964     \ltx@mbox{%
965         \mathsurround=0pt\relax
966         $_{\text{#1}}$%
967     }%
968 }%
969 }{%
970     \textsubscript{#1}%
971 }%
972 }

```

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

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

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

```

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

```

\HoLogoHtml@TeX

```

976 \def\HoLogoHtml@TeX#1{%
977     \HoLogoCss@TeX
978     \HOLOGO@Span{TeX}{%
979         T%
980         \HOLOGO@Span{e}{%
981             E%
982         }%
983         X%
984     }%
985 }

```

\HoLogoCss@TeX

```

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

```

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

```
\HoLogo@plainTeX@space Source: “The TEXbook”
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}

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

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

```

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

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

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

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

```

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

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

```

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

\HoLogo@La
1036 \def\HoLogo@La#1{%
1037   L%
1038   \kern-.36em%
1039   \begingroup
1040     \setbox\ltx@zero\hbox{T}%
1041     \vbox to\ht\ltx@zero{%
1042       \hbox{%
1043         \ltx@ifundefined{check@mathfonts}{%
1044           \csname sevenrm\endcsname
1045         }{%
1046           \check@mathfonts
1047           \fontsize\sf@size{0pt}%
1048           \math@fontsfalse\selectfont
1049         }%
1050         A%
1051       }%
1052       \vss
1053     }%
1054   \endgroup
1055 }

```

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

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

\HoLogoHtml@LaTeX

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

\HoLogoCss@LaTeX

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

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

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

```
\DeclareRobustCommand{\LaTeXTeX}{%
  (%
  \kern-.15em%
  L%
  \kern-.36em%
  {%
    \sbox\z@ T%
    \vbox to\ht0{%
      \hbox{%
        $\m@th$%
        \csname S@\f@size\endcsname
        \fontsize\sf@size\z@
        \math@fontsfalse
        \selectfont
        A%
      }%
      \vss
    }%
  }%
  \kern-.2em%
)%
```

```

        \kern-.15em%
        \TeX
    }

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

\HoLogoBkm@LaTeXTeX

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

\HoLogo@(La)TeX

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

\HoLogoBkm@(La)TeX

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

\HoLogoHtml@LaTeXTeX

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

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

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

\HoLogoCss@LaTeXTeX

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

```

```

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

```

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

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

```

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

```

\HoLogoCs@LaTeXe

```

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

```

\HoLogoBkm@LaTeXe

```

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

```

\HoLogoHtml@LaTeXe

```

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

```



```

\HoLogoCss@LaTeXe
1170 \def\HoLogoCss@LaTeXe{%
1171   \Css{%
1172     span.HoLogo-LaTeX2e span.HoLogo-2{%
1173       padding-left:.15em;%
1174     }%
1175   }%
1176   \Css{%
1177     span.HoLogo-LaTeX2e span.HoLogo-e{%
1178       position:relative;%
1179       top:.35ex;%
1180       text-decoration:none;%
1181     }%
1182   }%
1183   \global\let\HoLogoCss@LaTeXe\relax
1184 }

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

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

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

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

2.9.6 LATEX3

\HoLogo@LaTeX3 Source: LATEX 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\expandafter\endcsname
1203 \csname HoLogo@LaTeX3\endcsname

```

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

\HoLogo@LaTeXML

```

1204 \def\HoLogo@LaTeXML#1{%
1205   \HOLG0@mbbox{%
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   \HOLG0@Span{LaTeXML}{%
1217     \HoLogoCss@LaTeX
1218     \HoLogoCss@TeX
1219     \HOLG0@Span{LaTeX}{%
1220       L%
1221       \HOLG0@Span{a}{%
1222         A%
1223       }%
1224     }%
1225     \HOLG0@Span{TeX}{%
1226       T%
1227       \HOLG0@Span{e}{%
1228         E%
1229       }%
1230     }%
1231     \HCode{<span style="font-variant: small-caps;">}%
1232     xml%
1233     \HCode{</span>}%
1234   }%
1235 }
```

## 2.9.8 $\epsilon$ -T<sub>E</sub>X

\HoLogo@eTeX Source: package etex

```

1236 \def\HoLogo@eTeX#1{%
1237   \ltx@mbbox{%
1238     \HOLG0@MathSetup
1239     $\varepsilon$%
1240     -%
1241     \HOLG0@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   }
```

```

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         l%
1351         \kern-.035em%
1352         i%
1353       }%
1354     }%
1355     \HOLOGO@discretionary
1356     \kern-.06em%
1357     \hologo{TeX}%
1358   }%
1359 }

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

\HoLogoHtml@SliTeX@narrow
1361 \def\HoLogoHtml@SliTeX@narrow#1{%
1362   \HoLogoCss@SliTeX@narrow
1363   \HOLOGO@Span{SliTeX-narrow}{%
1364     \HoLogoFont@font{SliTeX}{rm}{%
1365       S%
1366       \HOLOGO@Span{l}{l}%
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@mbbox{%
1405     Lua%
1406     \HOLOGO@NegativeKerning{aT,oT,To}%
1407     \holologo{TeX}%
1408   }%
1409 }
```

\HoLogoHtml@LuaTeX

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

### 2.9.13 LuaLaTeX

\HoLogo@LuaLaTeX

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

\HoLogoHtml@LuaLaTeX

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

### 2.9.14 X<sub>T</sub>TeX, X<sub>T</sub>LaTeX

\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           }
1435     }
1436   \fi
1437 }
```

```

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 $\mathcal{M}\mathcal{S}$ , ...

Source: class amsdtx

`\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 }
```

`\HoLogoBkm@AmS`

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

`\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 }
```

`\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 }
```

`\HoLogo@AmSTeX`

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

`\HoLogoBkm@AmSTeX`

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

`\HoLogoHtml@AmSTeX`

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

\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   }
```

```

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#1}{%
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 \HOLG0@Span{BibTeX-sf}{%
1777   B%
1778   \HoLogoFont@font{BibTeX}{bibs}{%
1779     \HOLG0@Span{i}{I}%
1780     B%
1781   }%
1782   \hologo{TeX}%
1783 }%
1784 }

```

\HoLogoCss@BibTeX@sf

```

1785 \def\HoLogoCss@BibTeX@sf{%
1786   \Css{%
1787     span.HoLogo-BibTeX-sf span.HoLogo-i{%
1788       margin-left:-.05em;%
1789       margin-right:-.025em;%
1790     }%
1791   }%
1792   \Css{%
1793     span.HoLogo-BibTeX-sf span.HoLogo-TeX{%
1794       margin-left:-.08em;%
1795     }%
1796   }%
1797   \global\let\HoLogoCss@BibTeX@sf\relax
1798 }

```

\HoLogo@BibTeX

```

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

```

\HoLogoHtml@BibTeX

```

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

```

## 2.9.19 BIB<sub>T</sub>EX<sub>8</sub>

\HoLogo@BibTeX<sub>8</sub>

```

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

```

\HoLogoBkm@BibTeX<sub>8</sub>

```

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

```

\HoLogoHtml@BibTeX<sub>8</sub>

```

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

```

## 2.9.20 Con<sub>T</sub>EX<sub>t</sub>

\HoLogo@ConTeXt@simple

```

1812 \def\HoLogo@ConTeXt@simple#1{%
1813   \HOLG0@mbox{Con}%

```



```

1814 \HOLOGO@discretionary
1815 \HOLOGO@mbbox{\hologo{TeX}t}%
1816 }

```

\HoLogoHtml@ConTeXt@simple

```

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

```

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

```

1818 \def\HoLogo@ConTeXt@narrow#1{%
1819   \HOLOGO@mbbox{C\kern-.0333emon}%
1820   \HOLOGO@discretionary
1821   \kern-.0667em%
1822   \HOLOGO@mbbox{\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@mbbox{#1{e}{E}m}%
1851   \HOLOGO@discretionary
1852   \hologo{TeX}%
1853 }

```

```

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

```

```

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

```

```

\HoLogoHtml@emTeX
1858 \let\HoLogoHtml@emTeX\HoLogo@emTeX

```

## 2.9.22 $\varepsilon_X$ TeX

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

```

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

1859 \def\HoLogo@ExTeX#1{%
1860   \HoLogoFont@font{ExTeX}{rm}{%
1861     \ltx@mbbox{%
1862       \HOLOGO@MathSetup
1863       $%
1864       \textstyle
1865       \varepsilon_{%
1866         \kern-0.15em%
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@mbbox{%
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   \HOL0G0@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   \HOL0G0@mbbox{MiK}%
1908   \HOL0G0@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{0\kern-.03em z\kern-.15em\TeX}
(There is no kerning in OzMF, OzMP and OzTtH.)

```

```

\HoLogo@OzTeX

1912 \def\HoLogo@OzTeX#1{%
1913   0%
1914   \kern-.03em %
1915   z%
1916   \kern-.15em %
1917   \hologo{TeX}%
1918 }

\HoLogoHtml@OzTeX

1919 \def\HoLogoHtml@OzTeX#1{%
1920   \HoLogoCss@OzTeX
1921   \HOL0G0@Span{OzTeX}{%

```

```

1922      0%
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@mbox{OzMF}%
1938 }

\HoLogo@OzMP
1939 \def\HoLogo@OzMP#1{%
1940   \HOLOGO@mbox{OzMP}%
1941 }

\HoLogo@OzTtH
1942 \def\HoLogo@OzTtH#1{%
1943   \HOLOGO@mbox{OzTtH}%
1944 }

2.9.25 PCTEX

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

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

```

### 2.9.26 PICT<sub>E</sub>X

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

```

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

```

\HoLogo@PiC

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

\HoLogoHtml@PiC

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

\HoLogoCss@PiC

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

\HoLogo@PiTeX

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

\HoLogoHtml@PiTeX

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

\HoLogoCss@PiTeX

```
1991 \def\HoLogoCss@PiTeX{%
1992   \Css{%
1993     span.HoLogo-PiTeX span.HoLogo-PiC{%
1994       margin-right:-.11em;%
1995     }%
1996   }
```

```

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@mbbox{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@mbbox{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  $\varepsilon$ -TeX manual [3] and in package dtklogos [2]:

```

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

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

```

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

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

T<sub>T</sub>H

\HoLogo@TTH

```

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

```

\HoLogoHtml@TTH

```

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

```

### 2.11.6 Hàn Thế Thành

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

\HoLogo@HanTheThanh

```

2158 \def\HoLogo@HanTheThanh#1{%
2159   \ltx@mbox{H\`an}%
2160   \HOLOGO@space
2161   \ltx@mbox{%
2162     Th%
2163     \HOLOGO@IfCharExists{"1EBF}{%
2164       \char"1EBF\relax
2165     }{%

```

```

2166      \^e\hbox to 0pt{\hss\raise .5ex\hbox{'{}}}%
2167    }%
2168  }%
2169  \HOLOGO@space
2170  \ltx@mbox{Th\`anh}%
2171 }

```

\HoLogoBkm@HanTheThanh

```

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

```

\HoLogoHtml@HanTheThanh

```

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

```

## 2.12 Driver detection

```

2182 \HOLOGO@IfExists\InputIfFileExists{%
2183   \InputIfFileExists{hologo.cfg}{}{}%
2184 }{%
2185   \ltx@ifundefined{pdf@filesize}{%
2186     \def\HOLOGO@InputIfExists{%
2187       \openin\HOLOGO@temp=hologo.cfg\relax
2188       \ifeof\HOLOGO@temp
2189         \closein\HOLOGO@temp
2190       \else
2191         \closein\HOLOGO@temp
2192       \beginingroup
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           \beginingroup
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 }

```

HOLOGO@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 Opt{\copy\ltx@zero\hss}%
2382     }%
2383   }%
2384   \wd\ltx@two=\wd\ltx@zero
2385   \box\ltx@two
2386 \endgroup
2387 }

```

\HOLOGO@PointReflectBox

```

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

```

We must define all variants because of dynamic driver setup.

```

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

```

\HOLOGO@ScaleBox@pdftex

```

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

```

\HOLOGO@ScaleBox@dvips

```

2415 \HOLOGO@temp{dvips}{%
2416   \def\HOLOGO@ScaleBox@dvips#1#2#3{%
2417     \special{ps:%
2418       gsave %
2419       currentpoint %
2420       currentpoint translate %
2421       #1 #2 scale %
2422       neg exch neg exch translate%
2423     }%

```

```

2424    #3%
2425    \special{ps:%
2426        currentpoint %
2427        grestore %
2428        moveto%
2429    }%
2430 }%
2431 }

```

\HOLGO@ScaleBox@dvi pdfm

```

2432 \HOLGO@temp{dvi pdfm}{%
2433     \let\HOLGO@ScaleBox@dvi pdfm\HOLGO@ScaleBox@dvi ps
2434 }

```

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

\HOLGO@ScaleBox@xetex

```

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

```

\HOLGO@ScaleBox@vtex

```

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

```

```

2450 \HOLGO@AtEnd%

```

```

2451 \</package>

```

## 3 Test

### 3.1 Catcode checks for loading

```

2452 \<test1>
2453 \catcode\{=1 %
2454 \catcode\}=2 %
2455 \catcode\#=6 %
2456 \catcode\@=11 %
2457 \expandafter\ifx\csname count@\endcsname\relax
2458     \countdef\count@=255 %
2459 \fi
2460 \expandafter\ifx\csname @gobble\endcsname\relax
2461     \long\def@gobble#1{%
2462 \fi
2463 \expandafter\ifx\csname @firstofone\endcsname\relax
2464     \long\def@firstofone#1{#1}%
2465 \fi
2466 \expandafter\ifx\csname loop\endcsname\relax

```



```

2467 \expandafter\@firstofone
2468 \else
2469 \expandafter\@gobble
2470 \fi
2471 {%
2472 \def\loop#1\repeat{%
2473 \def\body{#1}%
2474 \iterate
2475 }%
2476 \def\iterate{%
2477 \body
2478 \let\next\iterate
2479 \else
2480 \let\next\relax
2481 \fi
2482 \next
2483 }%
2484 \let\repeat=\fi
2485 }%
2486 \def\RestoreCatcodes{}
2487 \count@=0 %
2488 \loop
2489 \edef\RestoreCatcodes{%
2490 \RestoreCatcodes
2491 \catcode\the\count@=\the\catcode\count@\relax
2492 }%
2493 \ifnum\count@<255 %
2494 \advance\count@ 1 %
2495 \repeat
2496
2497 \def\RangeCatcodeInvalid#1#2{%
2498 \count@=#1\relax
2499 \loop
2500 \catcode\count@=15 %
2501 \ifnum\count@<#2\relax
2502 \advance\count@ 1 %
2503 \repeat
2504 }
2505 \def\RangeCatcodeCheck#1#2#3{%
2506 \count@=#1\relax
2507 \loop
2508 \ifnum#3=\catcode\count@
2509 \else
2510 \errmessage{%
2511 Character \the\count@\space
2512 with wrong catcode \the\catcode\count@\space
2513 instead of \number#3%
2514 }%
2515 \fi
2516 \ifnum\count@<#2\relax
2517 \advance\count@ 1 %
2518 \repeat
2519 }
2520 \def\space{ }
2521 \expandafter\ifx\csname LoadCommand\endcsname\relax
2522 \def\LoadCommand{\input hologo.sty\relax}%
2523 \fi
2524 \def\Test{%

```

```

2525 \RangeCatcodeInvalid{0}{47}%
2526 \RangeCatcodeInvalid{58}{64}%
2527 \RangeCatcodeInvalid{91}{96}%
2528 \RangeCatcodeInvalid{123}{255}%
2529 \catcode`\@=12 %
2530 \catcode`\=0 %
2531 \catcode`\%=14 %
2532 \LoadCommand
2533 \RangeCatcodeCheck{0}{36}{15}%
2534 \RangeCatcodeCheck{37}{37}{14}%
2535 \RangeCatcodeCheck{38}{47}{15}%
2536 \RangeCatcodeCheck{48}{57}{12}%
2537 \RangeCatcodeCheck{58}{63}{15}%
2538 \RangeCatcodeCheck{64}{64}{12}%
2539 \RangeCatcodeCheck{65}{90}{11}%
2540 \RangeCatcodeCheck{91}{91}{15}%
2541 \RangeCatcodeCheck{92}{92}{0}%
2542 \RangeCatcodeCheck{93}{96}{15}%
2543 \RangeCatcodeCheck{97}{122}{11}%
2544 \RangeCatcodeCheck{123}{255}{15}%
2545 \RestoreCatcodes
2546 }
2547 \Test
2548 \csname @@end\endcsname
2549 \end
2550 </test1>

```

### 3.2 Spacefactor

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

```

2551 (*test-spacefactor)
2552 \NeedsTeXFormat{LaTeX2e}
2553 \documentclass{article}
2554 \usepackage{hologo}[2017/05/01]
2555 \usepackage{kvsetkeys}
2556 \usepackage{qstest}
2557 \IncludeTests{*}
2558 \LogTests{log}{*}{*}
2559 \begin{document}
2560 \begin{qstest}{spacefactor}{spacefactor}
2561 \newcommand*{\Test}[1]{%
2562   \sbox0{%
2563     \hologo{#1}%
2564     \Expect*{1000 (#1)}*{\the\spacefactor\space(#1)}%
2565   }%
2566 }%
2567 \makeatletter
2568 \def\TestList{}
2569 \def\hologoEntry#1#2#3{%
2570   \edef\TestList{%
2571     \ifx\TestList\@empty
2572     \else
2573       \TestList,%
2574     \fi
2575     #1%

```

```

2576 \ifx\#2\%
2577 \else
2578   ={variant=#2}%
2579 \fi
2580 }%
2581 }
2582 \hologoList
2583 \expandafter\kv@parse@normalized\expandafter{%
2584   \TestList
2585 }{%
2586   \begingroup
2587     \let\@logo=\kv@key
2588     \ifx\kv@value\relax
2589     \else
2590       \expandafter\hologoLogoSetup\expandafter\@logo\expandafter{%
2591         \kv@value
2592       }%
2593     \fi
2594     \Test\@logo
2595   \endgroup
2596   \@gobbletwo
2597 }
2598 \end{qstest}
2599 \end{document}
2600 \test-spacefactor

```

### 3.3 Complete list

```

2601 (*test-list)
2602 \NeedsTeXFormat{LaTeX2e}
2603 \documentclass[12pt,a4paper]{article}
2604 \usepackage{hologo}[2017/05/01]
2605 \usepackage[T1]{fontenc}
2606 \usepackage{lmodern}
2607 \usepackage{parskip}
2608 \usepackage[unicode]{hyperref}[2011/09/28]
2609 \usepackage{bookmark}[2011/09/19]
2610 \bookmarksetup{%
2611   numbered,%
2612   open,%
2613   openlevel=2,%
2614 }
2615 \renewcommand*{\contentsname}{List of logos}
2616 \begin{document}
2617 \tableofcontents
2618 \def\TestFont#1#2#3#4#5#6{%
2619   \begingroup
2620     \usefont{#3}{#4}{#5}{#6}%
2621     \HologoVariant{#1}{#2}/\hologoVariant{#1}{#2}%
2622     \quad
2623     \begingroup\scriptsize\hologoVariant{#1}{#2}\endgroup
2624     \quad
2625   \endgroup
2626   (#3/#4/#5/#6)%
2627   \par
2628 }
2629 \makeatletter
2630 \def\hologoEntry#1#2#3{%

```

```

2631 \section{%
2632   \HologoVariant{#1}{#2}/\hologoVariant{#1}{#2} %
2633   {[#1\ifx\#2\else\space(#2)\fi]}% hash-ok
2634 }% braces around [] because of bug in tex4ht
2635 \begingroup
2636   \hypersetup{unicode=false}%
2637   \bookmark[%
2638     dest=\@currentHref,%
2639     rellevel=1,%
2640     keeplevel,%
2641   ]{%
2642     \HologoVariant{#1}{#2}/\hologoVariant{#1}{#2} %
2643     (PDFDocEncoding)%
2644   }%
2645 \endgroup
2646 \TestFont{#1}{#2}{OT1}{cmr}{m}{n}%
2647 \TestFont{#1}{#2}{OT1}{cmss}{m}{n}%
2648 \TestFont{#1}{#2}{OT1}{cmr}{b}{n}%
2649 \TestFont{#1}{#2}{OT1}{cmr}{m}{it}%
2650 \TestFont{#1}{#2}{OT1}{cmtt}{m}{n}%
2651 \TestFont{#1}{#2}{T1}{lmr}{m}{n}%
2652 \TestFont{#1}{#2}{T1}{lmss}{m}{n}%
2653 \TestFont{#1}{#2}{T1}{lmr}{b}{n}%
2654 \TestFont{#1}{#2}{T1}{lmr}{m}{it}%
2655 \TestFont{#1}{#2}{T1}{lmtt}{m}{n}%
2656 \TestFont{#1}{#2}{T1}{lmvtt}{m}{n}%
2657 \TestFont{#1}{#2}{T1}{qtm}{m}{n}%
2658 \TestFont{#1}{#2}{T1}{qhv}{m}{n}%
2659 \TestFont{#1}{#2}{T1}{qtm}{b}{n}%
2660 \TestFont{#1}{#2}{T1}{qtm}{m}{it}%
2661 \TestFont{#1}{#2}{T1}{qcr}{m}{n}%
2662 \newpage
2663 }
2664 \makeatother
2665 \hologoList
2666 \end{document}
2667 </test-list>

```

## 4 Installation

### 4.1 Download

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

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

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

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

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

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

---

<sup>1</sup>[CTAN:pkg/hologo](#)

## 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.

## 4.3 Package installation

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

```
tex hologo.dtx
```

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

<code>hologo.sty</code>	$\rightarrow$ <code>tex/generic/oberdiek/hologo.sty</code>
<code>hologo.pdf</code>	$\rightarrow$ <code>doc/latex/oberdiek/hologo.pdf</code>
<code>example/hologo-example.tex</code>	$\rightarrow$ <code>doc/latex/oberdiek/example/hologo-example.tex</code>
<code>test/hologo-test1.tex</code>	$\rightarrow$ <code>doc/latex/oberdiek/test/hologo-test1.tex</code>
<code>test/hologo-test-spacefactor.tex</code>	$\rightarrow$ <code>doc/latex/oberdiek/test/hologo-test-spacefactor.tex</code>
<code>test/hologo-test-list.tex</code>	$\rightarrow$ <code>doc/latex/oberdiek/test/hologo-test-list.tex</code>
<code>hologo.dtx</code>	$\rightarrow$ <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`.

## 4.4 Refresh file name databases

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

## 4.5 Some details for the interested

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

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

**$\LaTeX$ :** Generate the documentation.

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

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

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

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

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

An example follows how to generate the documentation with pdf $\LaTeX$ :

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

## 5 References

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- [7] Michael Wichura, *The P<sub>T</sub>CTEX macro package*, 1987-09-21. [CTAN:pkg/pictex](#)
- [8] Markus Kohm, *KOMA-Script Datei scrlogo.dtx*, 2009-01-30.  
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## 6 History

### [2010/04/08 v1.0]

- The first version.

### [2010/04/16 v1.1]

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

### [2010/04/24 v1.2]

- L<sup>A</sup>T<sub>E</sub>X3 added.
- V<sub>T</sub>E<sub>X</sub> added.

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

- ini<sub>T</sub>E<sub>X</sub>, vir<sub>T</sub>E<sub>X</sub> added.

[2011/03/25 v1.4]

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

[2011/04/21 v1.5]

- Wrong TDS directory for test files fixed.

[2011/10/01 v1.6]

- Support for package tex4ht added.
- Support for \csname added if \ifincsname is available.
- New logos: L<sup>A</sup>T<sub>E</sub>X, biber, B<sub>I</sub>B<sub>T</sub><sub>E</sub>X (sc, sf), emT<sub>E</sub>X, ε<sub>X</sub>T<sub>E</sub>X, KOMA-Script, L<sub>A</sub>, L<sub>Y</sub>X, MiK<sub>T</sub><sub>E</sub>X, *N*<sub>7</sub>*S*, OzMF, OzMP, OzI<sub>E</sub>X, OzTtH, PCT<sub>E</sub>X, P<sub>I</sub>C, P<sub>I</sub>CT<sub>E</sub>X, METAFONT, MetaFun, METAPOST, MetaPost, SLT<sub>E</sub>X (lift, narrow, simple), SLT<sub>E</sub>X (narrow, simple, lift), teT<sub>E</sub>X.
- Fixes: iniT<sub>E</sub>X, pdfL<sup>A</sup>T<sub>E</sub>X, pdfT<sub>E</sub>X, virT<sub>E</sub>X.
- \hologoFontSetup and \hologoLogoFontSetup added.
- \hologoVariant and \HologoVariant added.

[2011/11/22 v1.7]

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

[2011/11/29 v1.8]

- New logos: Hàn Thế Thành.

[2011/12/21 v1.9]

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

[2012/04/26 v1.10]

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

[2016/05/12 v1.11]

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

[2016/05/16 v1.12]

- Documentation updates.

[2017/05/01 v1.13]

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

## 7 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		\aftergroup . . . . 151, 1450, 1452, 1455	
\# . . . . .	2455	<b>B</b>	
\\$ 804, 1141, 1144, 1152, 1246, 1249, 1257		\begin . 40, 41, 47, 107, 2559, 2560, 2616	
\% . . . . .	1078, 1121, 2531	\bfseries . . . . .	47
\& . . . . .	1142, 1145, 1153, 1247, 1250, 1258	\body . . . . .	2473, 2477
\' . . . . .	2166	\bookmark . . . . .	69, 76, 2637
\- . . . . .	519	\bookmarksetup . . . . .	2610
\/. . . . .	2141, 2143, 2145	\box . . . . .	1529, 1542, 2385, 2400
\@ . . . . .	2456, 2529	<b>C</b>	
\@PackageError . . . . .		\catcode . . . . .	124, 125, 127, 128,
. . . . .	369, 402, 440, 452, 635,	. . . . .	129, 130, 131, 132, 133, 134,
. . . . .	658, 665, 817, 849, 1547, 1589, 2257	. . . . .	135, 155, 156, 158, 159, 160,
\@PackageInfoNoLine . . . . .	2243, 2301	. . . . .	161, 162, 163, 164, 165, 166,
\@PackageWarning . . . . .	539	. . . . .	167, 168, 169, 170, 171, 191,
\@PackageWarningNoLine . . . . .		. . . . .	192, 194, 195, 196, 200, 201,
. . . . .	2209, 2336, 2351	. . . . .	202, 203, 204, 205, 206, 209,
\@currentHref . . . . .	2638	. . . . .	210, 212, 213, 214, 215, 219,
\@ehc . . . . .	371, 405, 444, 454, 637,	. . . . .	221, 708, 710, 804, 1141, 1142,
. . . . .	661, 668, 819, 851, 1547, 1589, 2260	. . . . .	1144, 1145, 1152, 1153, 1246,
\@empty . . . . .	2571	. . . . .	1247, 1249, 1250, 1257, 1258,
\@firstofone . . . . .	2464, 2467	. . . . .	2453, 2454, 2455, 2456, 2491,
\@gobble . . . . .	2461, 2469	. . . . .	2500, 2508, 2512, 2529, 2530, 2531
\@gobbletwo . . . . .	2596	\char . . . . .	1448, 1501, 2164
\@logo . . . . .	2587, 2590, 2594	\chardef . . . . .	381, 386, 388, 395,
\@nil . . . . .	911	. . . . .	397, 414, 415, 416, 418, 421,
\@undefined . . . . .		. . . . .	424, 473, 475, 479, 490, 492,
. . . . .	180, 352, 449, 693, 2308, 2325	. . . . .	496, 508, 510, 514, 524, 526,
\\ . . . . .	33, 48, 50, 51, 52,	. . . . .	1503, 1510, 1513, 1516, 1519,
. . . . .	53, 54, 61, 72, 79, 2530, 2576, 2633	. . . . .	1555, 1558, 1561, 1564, 2203, 2218
\{ . . . . .	2453	\check@mathfonts . . . . .	1046
\} . . . . .	2454	\chi . . . . .	1883
\^ . . . . .	1140, 1245, 1486, 2166, 2174	\closein . . . . .	2189, 2191
\` . . . . .	2159, 2170, 2173, 2175, 2178, 2180	\comma@entry . . . . .	922
<b>Numbers</b>		\comma@parse@normalized . . . . .	920
\2 . . . . .	2174	\contentsname . . . . .	2615
\9 . . . . .	2174	\copy . . . . .	2381, 2395
<b>A</b>		\count . . . . .	2215, 2218
\advance . . . . .	935,	\count@ . . . . .	2458, 2487, 2491, 2493,
. . . . .	1528, 1541, 2216, 2494, 2502, 2517	. . . . .	2494, 2498, 2500, 2501, 2502,
		. . . . .	2506, 2508, 2511, 2512, 2516, 2517
		\countdef . . . . .	2458



<code>\csname</code> . . . . .	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	<code>\f@size</code> . . . . .	582
<code>\Css</code> 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	<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	
<b>H</b>			
	<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> . . . . .	<u>3</u> , 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, 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	
	<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> , 1724	
	<code>\HoLogo@AmSTeX</code> . . . . .	<u>1711</u> , 1717	
	<code>\HOLOGO@AtEnd</code> . . . . .	217, 218, 248, 249, 662, 669, 2360, 2364, 2367, 2450	
	<code>\HoLogo@biber</code> . . . . .	<u>2046</u> , 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> , 1799	
	<code>\HOLOGO@break</code> . . . . .	<u>412</u> , <u>433</u>	
	<code>\HOLOGO@CheckDriver</code> . . . . .	<u>2294</u> , <u>2303</u>	
	<code>\HOLOGO@CheckRead</code> . . . . .	<u>2204</u>	
	<code>\HOLOGO@choice</code> . . . . .	. 1503, 1510, 1513, 1516, 1519, 1521, 1555, 1558, 1561, 1564, 1566	
<b>D</b>			
<code>\DeclareRobustCommand</code> . . . . .	. . . . .	611, 809, 841, 873, 888	
<code>\dimendef</code> . . . . .		916	
<code>\directlua</code> . . . . .		686, 1423, 2318	
<code>\documentclass</code> . . . . .		4, 2553, 2603	
<code>\dp</code> . . . . .		1527, 1540	
<b>E</b>			
<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>\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	
<b>F</b>			
<code>\f@series</code> . . . . .		910, 911	

<code>\HoLogo@ConTeXt</code> . . . . .	<a href="#">1847</a>	<a href="#">439</a> , <a href="#">449</a> , <a href="#">451</a> , <a href="#">453</a> , <a href="#">457</a> , <a href="#">471</a> ,
<code>\HoLogo@ConTeXt@narrow</code> . . .	<a href="#">1818</a> , <a href="#">1847</a>	<a href="#">472</a> , <a href="#">476</a> , <a href="#">480</a> , <a href="#">488</a> , <a href="#">489</a> , <a href="#">493</a> ,
<code>\HoLogo@ConTeXt@simple</code> . . .	<a href="#">1812</a> , <a href="#">1817</a>	<a href="#">497</a> , <a href="#">506</a> , <a href="#">507</a> , <a href="#">511</a> , <a href="#">515</a> , <a href="#">523</a> ,
<code>\HOLOGO@DeclareBoolOption</code> . . . . .		<a href="#">527</a> , <a href="#">629</a> , <a href="#">633</a> , <a href="#">634</a> , <a href="#">636</a> , <a href="#">648</a> ,
. . . . .	<a href="#">380</a> , <a href="#">434</a> , <a href="#">435</a> , <a href="#">436</a> , <a href="#">437</a>	<a href="#">651</a> , <a href="#">815</a> , <a href="#">816</a> , <a href="#">818</a> , <a href="#">820</a> , <a href="#">823</a> ,
<code>\HOLOGO@discretionary</code> . . . . .		<a href="#">824</a> , <a href="#">828</a> , <a href="#">829</a> , <a href="#">831</a> , <a href="#">847</a> , <a href="#">848</a> ,
. . . . .	<a href="#">505</a> , <a href="#">1299</a> , <a href="#">1338</a> ,	<a href="#">850</a> , <a href="#">852</a> , <a href="#">855</a> , <a href="#">856</a> , <a href="#">860</a> , <a href="#">861</a> , <a href="#">863</a>
. . . . .	<a href="#">1355</a> , <a href="#">1733</a> , <a href="#">1770</a> , <a href="#">1814</a> , <a href="#">1820</a> ,	<code>\HOLOGO@NegativeKerning</code> . . . . .
. . . . .	<a href="#">1851</a> , <a href="#">1871</a> , <a href="#">1908</a> , <a href="#">1980</a> , <a href="#">2001</a> ,	. . . . .
. . . . .	<a href="#">2017</a> , <a href="#">2025</a> , <a href="#">2032</a> , <a href="#">2038</a> , <a href="#">2043</a> , <a href="#">2048</a>	<code>\HoLogo@NTS</code> . . . . .
<code>\HOLOGO@DriverFallback</code> . . . . .		<code>\HoLogo@OzMF</code> . . . . .
. . . . .	<a href="#">2285</a> , <a href="#">2287</a> , <a href="#">2298</a>	<code>\HoLogo@OzMP</code> . . . . .
<code>\HOLOGO@DriverSetup</code> . . . . .	<a href="#">2290</a> , <a href="#">2292</a> , <a href="#">2374</a>	<code>\HoLogo@OzTeX</code> . . . . .
<code>\HoLogo@emTeX</code> . . . . .	<a href="#">1849</a> , <a href="#">1858</a>	<code>\HoLogo@OzTtH</code> . . . . .
<code>\HoLogo@eTeX</code> . . . . .	<a href="#">1236</a>	<code>\HoLogo@PCTeX</code> . . . . .
<code>\HoLogo@ExTeX</code> . . . . .	<a href="#">1859</a>	<code>\HOLOGO@PdfdocUnicode</code> . . . . .
<code>\HOLOGO@false</code> . . . . .	<a href="#">393</a> , <a href="#">432</a>	. . . . .
<code>\HOLOGO@FontSetup</code> . . . . .	<a href="#">630</a> , <a href="#">640</a> , <a href="#">643</a>	<code>\HoLogo@pdfLaTeX</code> . . . . .
<code>\HoLogo@HanTheThanh</code> . . . . .	<a href="#">2158</a>	<code>\HOLOGO@pdfliteral</code> . . . . .
<code>\HOLOGO@hyphen</code> . . . . .		. . . . .
. . . . .	<a href="#">487</a> , <a href="#">1013</a> , <a href="#">1713</a> , <a href="#">1720</a> , <a href="#">2065</a>	<a href="#">2306</a> , <a href="#">2310</a> , <a href="#">2325</a> , <a href="#">2329</a> , <a href="#">2406</a> , <a href="#">2410</a>
<code>\HOLOGO@ifCharExists</code> . . . . .	<a href="#">1418</a> , <a href="#">1500</a> , <a href="#">2163</a>	<code>\HoLogo@pdfTeX</code> . . . . .
<code>\HOLOGO@ifDefined</code> . . . . .	<a href="#">351</a>	<code>\HoLogo@PiC</code> . . . . .
<code>\HOLOGO@ifExists</code> . . . . .	<a href="#">351</a> , <a href="#">657</a> ,	<code>\HoLogo@PiCTeX</code> . . . . .
. . . . .	<a href="#">664</a> , <a href="#">720</a> , <a href="#">741</a> , <a href="#">765</a> , <a href="#">790</a> , <a href="#">910</a> , <a href="#">2182</a>	<code>\HoLogo@plainTeX</code> . . . . .
<code>\HOLOGO@ifincsnname</code> . . . . .	<a href="#">693</a> , <a href="#">701</a>	<code>\HoLogo@plainTeX@hyphen</code> . . . . .
<code>\HoLogo@iniTeX</code> . . . . .	<a href="#">1272</a> , <a href="#">1281</a>	<code>\HoLogo@plainTeX@runtogether</code> . . . . .
<code>\HOLOGO@InputIfExists</code> . . . . .	<a href="#">2186</a> , <a href="#">2206</a> , <a href="#">2227</a>	<code>\HoLogo@plainTeX@space</code> . . . . .
<code>\HoLogo@KOMAScript</code> . . . . .	<a href="#">2056</a>	<code>\HOLOGO@PointReflectBox</code> . . . . .
<code>\HoLogo@La</code> . . . . .	<a href="#">1036</a>	. . . . .
<code>\HoLogo@LaTeX</code> . . . . .	<a href="#">1056</a>	<a href="#">1544</a> , <a href="#">1545</a> , <a href="#">2388</a>
<code>\HoLogo@LaTeX2e</code> . . . . .	<a href="#">1185</a>	<code>\HOLOGO@ReflectBox</code> . . . . .
<code>\HoLogo@LaTeX3</code> . . . . .	<a href="#">1193</a>	<a href="#">1586</a> , <a href="#">2375</a>
<code>\HoLogo@LaTeXe</code> . . . . .	<a href="#">1131</a> , <a href="#">1186</a>	<code>\HOLOGO@Reflectbox</code> . . . . .
<code>\HoLogo@LaTeXML</code> . . . . .	<a href="#">1204</a>	<a href="#">1584</a>
<code>\HoLogo@LaTeXTeX</code> . . . . .	<a href="#">1083</a> , <a href="#">1094</a>	<code>\HoLogo@SageTeX</code> . . . . .
<code>\HoLogo@LuaLaTeX</code> . . . . .	<a href="#">1411</a> , <a href="#">1417</a>	<a href="#">2015</a> , <a href="#">2021</a>
<code>\HoLogo@LuaTeX</code> . . . . .	<a href="#">1403</a> , <a href="#">1410</a>	<code>\HOLOGO@ScaleBox@dviPDFm</code> . . . . .
<code>\HoLogo@LyX</code> . . . . .	<a href="#">2111</a>	<a href="#">2432</a>
<code>\HOLOGO@Math</code> . . . . .	<a href="#">908</a>	<code>\HOLOGO@ScaleBox@dviPS</code> . . . . .
<code>\HOLOGO@MathSetup</code> . . . . .	<a href="#">908</a> ,	<a href="#">2415</a> , <a href="#">2433</a>
. . . . .	<a href="#">1135</a> , <a href="#">1165</a> , <a href="#">1238</a> , <a href="#">1266</a> , <a href="#">1862</a> , <a href="#">1881</a>	<code>\HOLOGO@ScaleBox@pdftex</code> . . . . .
<code>\HOLOGO@mbox</code> . . . . .	<a href="#">522</a> ,	<a href="#">2404</a>
. . . . .	<a href="#">1003</a> , <a href="#">1013</a> , <a href="#">1023</a> , <a href="#">1205</a> , <a href="#">1273</a> ,	<code>\HOLOGO@ScaleBox@vtex</code> . . . . .
. . . . .	<a href="#">1283</a> , <a href="#">1404</a> , <a href="#">1412</a> , <a href="#">1654</a> , <a href="#">1664</a> ,	<a href="#">2443</a>
. . . . .	<a href="#">1674</a> , <a href="#">1813</a> , <a href="#">1815</a> , <a href="#">1819</a> , <a href="#">1822</a> ,	<code>\HOLOGO@ScaleBox@xetex</code> . . . . .
. . . . .	<a href="#">1850</a> , <a href="#">1907</a> , <a href="#">1937</a> , <a href="#">1940</a> , <a href="#">1943</a> ,	<a href="#">2435</a>
. . . . .	<a href="#">1946</a> , <a href="#">2000</a> , <a href="#">2010</a> , <a href="#">2016</a> , <a href="#">2024</a> ,	<code>\HOLOGO@SetBreakAll</code> . . . . .
. . . . .	<a href="#">2026</a> , <a href="#">2031</a> , <a href="#">2033</a> , <a href="#">2037</a> , <a href="#">2039</a> ,	<a href="#">391</a> , <a href="#">400</a> , <a href="#">410</a>
. . . . .	<a href="#">2042</a> , <a href="#">2044</a> , <a href="#">2047</a> , <a href="#">2049</a> , <a href="#">2058</a> , <a href="#">2067</a>	<code>\HOLOGO@Setup</code> . . . . .
<code>\HoLogo@METAFONT</code> . . . . .	<a href="#">2022</a>	<a href="#">364</a> , <a href="#">374</a> , <a href="#">377</a>
<code>\HoLogo@MetaFun</code> . . . . .	<a href="#">2036</a>	<code>\HoLogo@SLiTeX</code> . . . . .
<code>\HoLogo@METAPOST</code> . . . . .	<a href="#">2029</a>	<a href="#">1397</a>
<code>\HoLogo@MetaPost</code> . . . . .	<a href="#">2041</a>	<code>\HoLogo@SLiTeX@lift</code> . . . . .
<code>\HoLogo@MiKTeX</code> . . . . .	<a href="#">1906</a> , <a href="#">1911</a>	<a href="#">1292</a> , <a href="#">1394</a> , <a href="#">1397</a>
<code>\HOLOGO@name</code> . . . . .	<a href="#">363</a> , <a href="#">367</a> , <a href="#">368</a> ,	<code>\HoLogo@SLiTeX@lift</code> . . . . .
. . . . .	<a href="#">370</a> , <a href="#">385</a> , <a href="#">389</a> , <a href="#">394</a> , <a href="#">398</a> , <a href="#">413</a> ,	<a href="#">1394</a>
. . . . .	<a href="#">419</a> , <a href="#">420</a> , <a href="#">422</a> , <a href="#">423</a> , <a href="#">425</a> , <a href="#">427</a> ,	<code>\HoLogo@SLiTeX@narrow</code> . . . . .
		<a href="#">1391</a>
		<code>\HoLogo@SLiTeX@narrow</code> <a href="#">1344</a> , <a href="#">1391</a> , <a href="#">1400</a>
		<code>\HoLogo@SLiTeX@simple</code> . . . . .
		<a href="#">1388</a>
		<code>\HoLogo@SLiTeX@simple</code> <a href="#">1333</a> , <a href="#">1343</a> , <a href="#">1388</a>
		<code>\HOLOGO@space</code> . . . . .
		<a href="#">470</a> , <a href="#">1003</a> , <a href="#">2160</a> , <a href="#">2169</a>
		<code>\HOLOGO@SpaceFactor</code> . . . . .
		. . . . .
		<a href="#">937</a> , <a href="#">974</a> , <a href="#">1956</a> , <a href="#">2117</a> , <a href="#">2147</a> , <a href="#">2153</a>
		<code>\HOLOGO@Span</code> . . . . .
		<a href="#">940</a> , <a href="#">978</a> , <a href="#">980</a> ,
		<a href="#">1063</a> , <a href="#">1065</a> , <a href="#">1099</a> , <a href="#">1101</a> , <a href="#">1102</a> ,
		<a href="#">1103</a> , <a href="#">1161</a> , <a href="#">1163</a> , <a href="#">1164</a> , <a href="#">1216</a> ,
		<a href="#">1219</a> , <a href="#">1221</a> , <a href="#">1225</a> , <a href="#">1227</a> , <a href="#">1307</a> ,
		<a href="#">1310</a> , <a href="#">1311</a> , <a href="#">1363</a> , <a href="#">1366</a> , <a href="#">1367</a> ,
		<a href="#">1596</a> , <a href="#">1598</a> , <a href="#">1620</a> , <a href="#">1640</a> , <a href="#">1692</a> ,
		<a href="#">1694</a> , <a href="#">1739</a> , <a href="#">1741</a> , <a href="#">1742</a> , <a href="#">1776</a> ,
		<a href="#">1779</a> , <a href="#">1826</a> , <a href="#">1827</a> , <a href="#">1879</a> , <a href="#">1883</a> ,

1921, 1923, 1960, 1962, 1986, 2076, 2078, 2080, 2081, 2121, 2123	\HoLogoBkm@SLiTeX@lift . . . . .	1395
\HOLOGO@SubScript . . . . .	\HoLogoBkm@SLiTeX@narrow . . . . .	1392
945, 2151	\HoLogoBkm@SLiTeX@narrow . . . . .	1360, 1392, 1401
\HOLOGO@temp 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	\HoLogoBkm@teTeX . . . . .	1389
\HOLOGO@TempDimen . . . . .	\HoLogoBkm@teTeX . . . . .	2005
. 916, 919, 921, 926, 927, 933, 935	\HoLogoBkm@virTeX . . . . .	1288
\HoLogo@teTeX . . . . .	\HoLogoCs@biber . . . . .	2051
1999, 2008	\HoLogoCs@emTeX . . . . .	1854
\HoLogo@TeX . . . . .	\HoLogoCs@eTeX . . . . .	1245
973	\HoLogoCs@iniTeX . . . . .	1277
\HoLogo@TeX4ht . . . . .	\HoLogoCs@LaTeX2e . . . . .	1187
2009	\HoLogoCs@LaTeXe . . . . .	1140, 1188
\HOLOGO@true . . . . .	\HoLogoCs@pdfLaTeX . . . . .	1668
384, 431	\HoLogoCs@pdfTeX . . . . .	1658
\HoLogo@TTH . . . . .	\HoLogoCs@plainTeX . . . . .	1033
2149	\HoLogoCs@plainTeX@hyphen . . . . .	1015
\HOLOGO@Uppercase . . . . .	\HoLogoCs@plainTeX@runtogether . . . . .	1025
861, 900	\HoLogoCs@plainTeX@space . . . . .	1005, 1033
\HOLOGO@Variant 463, 714, 717, 724, 727, 735, 738, 745, 748, 816, 824, 828, 831, 848, 856, 860, 863	\HoLogoCs@teTeX . . . . .	2004
\HoLogo@virTeX . . . . .	\HoLogoCs@virTeX . . . . .	1287
1282, 1291	\HoLogoCss@AmS . . . . .	1690, 1699
\HoLogo@VTeX . . . . .	\HoLogoCss@BibTeX@sc . . . . .	1738, 1746
1673, 1678	\HoLogoCss@BibTeX@sf . . . . .	1775, 1785
\HOLOGO@WarningUnsupportedDriver . . . . .	\HoLogoCss@ConTeXt@narrow . . . . .	1825, 1833
1522, 1567, 2350	\HoLogoCss@ExTeX . . . . .	1877, 1893
\HoLogo@Xe . . . . .	\HoLogoCss@KOMAScript . . . . .	2074, 2086
1497	\HoLogoCss@LaTeX . . . . .	1062, 1071, 1217
\HoLogo@XeLaTeX . . . . .	\HoLogoCss@LaTeXe . . . . .	1160, 1170
1633	\HoLogoCss@LaTeXTeX . . . . .	1098, 1109
\HoLogo@XeTeX . . . . .	\HoLogoCss@LyX . . . . .	2120, 2127
1613	\HoLogoCss@OzTeX . . . . .	1920, 1927
\HoLogoBkm@(La)TeX . . . . .	\HoLogoCss@PiC . . . . .	1959, 1966
1095	\HoLogoCss@PiCTeX . . . . .	1985, 1991
\HoLogoBkm@AmS . . . . .	\HoLogoCss@SLiTeX@lift . . . . .	1306, 1316
1688	\HoLogoCss@SLiTeX@narrow . . . . .	1362, 1372
\HoLogoBkm@AmSLaTeX . . . . .	\HoLogoCss@TeX . . . . .	977, 986, 1218
1723	\HoLogoCss@Xe . . . . .	1595, 1603
\HoLogoBkm@AmSTeX . . . . .	\HoLogoCss@XeLaTeX . . . . .	1639, 1645
1716	\HoLogoCss@XeTeX . . . . .	1619, 1625
\HoLogoBkm@biber . . . . .	\hologoDriver . . . . .	1508, 1553, 2263, 2289, 2301, 2305, 2342, 2345, 2353, 2380, 2394
2052	\hologoDriverSetup . . . . .	5, 2288
\HoLogoBkm@BibTeX8 . . . . .	\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
1805		
\HoLogoBkm@emTeX . . . . .		
1855		
\HoLogoBkm@eTeX . . . . .		
1259		
\HoLogoBkm@ExTeX . . . . .		
1889		
\HoLogoBkm@HanTheThanh . . . . .		
2172		
\HoLogoBkm@iniTeX . . . . .		
1278		
\HoLogoBkm@KOMAScript . . . . .		
2070		
\HoLogoBkm@LaTeX2e . . . . .		
1189		
\HoLogoBkm@LaTeX3 . . . . .		
1197		
\HoLogoBkm@LaTeXe . . . . .		
1154, 1190		
\HoLogoBkm@LaTeXTeX . . . . .		
1092, 1096		
\HoLogoBkm@pdfLaTeX . . . . .		
1669		
\HoLogoBkm@pdfTeX . . . . .		
1659		
\HoLogoBkm@plainTeX . . . . .		
1034		
\HoLogoBkm@plainTeX@hyphen . . . . .		
1016		
\HoLogoBkm@plainTeX@runtogether . . . . .		
1026		
\HoLogoBkm@plainTeX@space . . . . .		
1006, 1034		
\HoLogoBkm@SLiTeX . . . . .		
1398		
\HoLogoBkm@SLiTeX . . . . .		
1401		
\HoLogoBkm@SLiTeX@lift . . . . .		
1304, 1395, 1398		

\HoLogoFont@Def	551, 557, 561, 564, 569, 572, 578, 580, 592, 594, 599, 602, 620, 626, 649
\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
\HoLogoFont@font@bbsf	574
\HoLogoFont@font@general	557
\HoLogoFont@font@logo	606
\HoLogoFont@font@rm	558
\HoLogoFont@font@sc	588
\HoLogoFont@font@sf	566
\HoLogoFont@font@sy	596
\HoLogoFont@LogoDef	554, 651
\hologoFontSetup	6, 628
\HoLogoHtml@LaTeX	1107
\HoLogoHtml@AmS	1689
\HoLogoHtml@AmSLaTeX	1724
\HoLogoHtml@AmSTeX	1717
\HoLogoHtml@biber	2055
\HoLogoHtml@BibTeX	1800
\HoLogoHtml@BibTeX8	1809
\HoLogoHtml@BibTeX@sc	1737
\HoLogoHtml@BibTeX@sf	1774, 1800
\HoLogoHtml@ConTeXt	1848
\HoLogoHtml@ConTeXt@narrow	1824, 1848
\HoLogoHtml@ConTeXt@simple	1817
\HoLogoHtml@emTeX	1858
\HoLogoHtml@eTeX	1264
\HoLogoHtml@ExTeX	1876
\HoLogoHtml@HanTheThanh	2177
\HoLogoHtml@iniTeX	1281
\HoLogoHtml@KOMAScript	2073
\HoLogoHtml@LaTeX	1061
\HoLogoHtml@LaTeX2e	1191
\HoLogoHtml@LaTeX3	1201
\HoLogoHtml@LaTeXe	1159, 1192
\HoLogoHtml@LaTeXML	1215
\HoLogoHtml@LaTeXTeX	1097, 1108
\HoLogoHtml@LuaLaTeX	1417
\HoLogoHtml@LuaTeX	1410
\HoLogoHtml@LyX	2119
\HoLogoHtml@MiKTeX	1911
\HoLogoHtml@OzTeX	1919
\HoLogoHtml@PCTeX	1949
\HoLogoHtml@pdfLaTeX	1215, 1672
\HoLogoHtml@pdfTeX	1662
\HoLogoHtml@PiC	1958
\HoLogoHtml@PiCTeX	1984
\HoLogoHtml@plainTeX	1035
\HoLogoHtml@plainTeX@hyphen	1019
\HoLogoHtml@plainTeX@runtogether	1029
\HoLogoHtml@plainTeX@space	1009, 1035
\HoLogoHtml@SageTeX	2021
\HoLogoHtml@SLiTeX	1399
\HoLogoHtml@SLiTeX	1402
\HoLogoHtml@SLiTeX@lift	1305, 1396, 1399
\HoLogoHtml@SLiTeX@lift	1396
\HoLogoHtml@SLiTeX@narrow	1393
\HoLogoHtml@SLiTeX@narrow	1361, 1393, 1402
\HoLogoHtml@SLiTeX@simple	1390
\HoLogoHtml@SLiTeX@simple	1343, 1390
\HoLogoHtml@teTeX	2008
\HoLogoHtml@TeX	976
\HoLogoHtml@TeX4ht	2012
\HoLogoHtml@TTH	2155
\HoLogoHtml@virTeX	1291
\HoLogoHtml@VTeX	1678
\HoLogoHtml@Xe	1594
\HoLogoHtml@XeLaTeX	1638
\HoLogoHtml@XeTeX	1618
\hologoList	7, 35, 115, 254, 2582, 2665
\hologoLogoFontSetup	6, 632
\hologoLogoSetup	4, 63, 366, 443, 880, 895, 2590
\HLOGOOPT@break	414, 415, 416
\HLOGOOPT@discretionarybreak	416, 508
\HLOGOOPT@hyphenbreak	414, 490, 524
\HLOGOOPT@spacebreak	415, 473
\hologoRobust	743, 837, 896
\hologoRobust	664, 666, 722, 805, 881, 899
\hologorobust	899
\hologoSetup	4, 362, 441
\HologoVariant	779, 2621, 2632, 2642
\hologoVariant	7, 754, 2621, 2623, 2632, 2642
\HologoVariantRobust	792, 884
\hologoVariantRobust	767, 869
\hss	2166, 2381, 2395
\ht	1041, 2393
\hypersetup	20, 75, 2636
\hypertarget	68

## I

\if	911, 1455
\ifcase	482, 499, 517, 529, 685, 1521, 1566, 2208, 2317
\ifdim	921, 926, 1504
\ifeof	2188, 2205
\ifHy@unicode	902
\ifincsname	701, 713, 734, 758, 783
\ifluatex	671, 1418, 2307
\ifnum	678, 1140, 1245, 1419, 1422, 1449, 1467, 1473, 1486, 1490, 2233, 2313, 2493, 2501, 2508, 2516
\ifpdf	2304
\iftrue	902
\ifvtex	2344

\ifx	.....	33, 61, 72, 79, 137, 140, 143, 172, 180, 183, 321, 324, 352, 355, 384, 385, 393, 394, 412, 413, 439, 447, 609, 648, 693, 755, 780, 902, 2195, 2231, 2237, 2255, 2267, 2308, 2325, 2370, 2457, 2460, 2463, 2466, 2521, 2571, 2576, 2588, 2633		816, 822, 828, 837, 838, 848, 854, 860, 869, 870, 884, 885, 946, 947, 952, 1443, 1464, 1465, 1505, 1506, 1507, 1508, 1550, 1551, 1552, 1553, 2185, 2202, 2312, 2335, 2358, 2359, 2363, 2366	
\ifxetex	.....	1463, 2341		\lt@ifundefined	465, 471, 472, 488, 489, 506, 507, 523, 714, 724, 725, 735, 745, 746, 759, 769, 770, 784, 794, 795, 1043, 1485, 2295
\immediate	.....	145, 174		\lt@LocDimenA	..... 1527, 1528, 1529, 1540, 1541, 1542
\IncludeTests	.....	2557		\lt@mbox	500, 530, 948, 964, 1237, 1265, 1335, 1346, 1861, 1880, 2150, 2159, 2161, 2170
\input	325, 2196, 2198, 2238, 2240, 2522			\lt@minusone	..... 2216
\InputIfFileExists	.....	2182, 2183		\lt@newif	..... 336
\iterate	.....	2474, 2476, 2478		\lt@one	..... 386, 389, 1504
K				\lt@onelevel@sanitize	..... 2254
\kern	....	927, 934, 974, 1038, 1058, 1085, 1087, 1089, 1133, 1207, 1209, 1211, 1295, 1297, 1300, 1348, 1351, 1356, 1448, 1499, 1615, 1635, 1682, 1684, 1727, 1730, 1734, 1764, 1767, 1771, 1819, 1821, 1822, 1866, 1872, 1914, 1916, 1952, 1954, 1981, 2059, 2060, 2061, 2064, 2066, 2113, 2115, 2142, 2144, 2379, 2392		\lt@secondoftwo	..... ..... 353, 356, 738, 749, 787, 798, 857, 864, 903, 1436, 1460, 1476
\kv@define@key	382, 438, 647, 2251, 2284			\lt@space	..... 485, 659, 666
\kv@key	.....	2587		\lt@two	..... 2378, 2384, 2385, 2391, 2399, 2400
\kv@parse@normalized	....	2273, 2583		\lt@undefined	..... 2289
\kv@value	.....	2267, 2588, 2591		\lt@zero	. . 381, 395, 398, 916, 932, 933, 934, 935, 1040, 1041, 1435, 1446, 1447, 1449, 1467, 1473, 1503, 1526, 1527, 1529, 1539, 1540, 1542, 2377, 2379, 2381, 2384, 2390, 2392, 2393, 2395, 2399
\kvsetkeys	.....	378, 644, 2293, 2298		\luatexversion	..... 678, 1419, 2313
L				M	
\lastkern	.....	1449		\makeatletter	..... 2567, 2629
\LoadCommand	.....	2522, 2532		\makeatother	..... 2664
\logofamily	.....	611, 612, 620		\math@fontsfalse	..... 584, 1048
\LogTests	.....	2558		\mathrm	..... 953
\loop	.....	2472, 2488, 2499, 2507		\mathsurround	..... 581, 909, 949, 965
\lower	.....	974, 1210, 1501, 1532, 1545, 1570, 1574, 1581, 1585, 1683, 1953, 2114, 2143		\mbox	..... 955
\lt@car	.....	911		\MessageBreak	..... 403, 442, 659, 666, 2210, 2352, 2353, 2354
\lt@cclv	.....	2215, 2216, 2218		N	
\lt@empty	.....	447, 2231, 2255		\NeedsTeXFormat	..... 3, 2552, 2602
\lt@firstofone	.....	672, 681, 695		\newcommand	..... 32, 60, 66, 2561
\lt@firstofthree	.....	1468		\newpage	..... 2662
\lt@firstoftwo	.....	358, 717, 720, 728, 741, 762, 765, 773, 790, 825, 832, 905, 1438, 1457, 1474		\next	..... 2478, 2480, 2482
\lt@fourthoffour	.....	1491		\not@math@alphabet	..... 612
\lt@gobble	..... 372, 638, 674, 679, 698, 924, 1470			\number	..... 1426, 1431, 2513
\lt@hashchar	.....	1599, 2179		O	
\lt@IfUndefined	..... ..... 335, 368, 451, 537, 538, 558, 559, 566, 567, 574, 575, 588, 589, 596, 597, 610, 618, 623, 634, 677, 707, 805, 806,			\openin	..... 2187
P				P	
\PackageInfo	.....	148		\PackageInfo	..... 148
\pagestyle	.....	9		\pagestyle	..... 9
\par	.....	2627		\par	..... 2627

<code>\pdf@filesize</code> .....	2230	<code>\tensc</code> .....	576, 578, 590, 592
<code>\pdfextension</code> .....	2308, 2309	<code>\tensy</code> .....	599
<code>\pdfliteral</code> ...	2306, 2309, 2310, 2337	<code>\Test</code> .....	2524, 2547, 2561, 2594
<code>\penalty</code> .....	483	<code>\TestFont</code> .....	2618,
<code>\pgfpicture</code> .....	1533, 1575		2646, 2647, 2648, 2649, 2650,
<code>\pgftext</code> .....	1531, 1534, 1573, 1577		2651, 2652, 2653, 2654, 2655,
<code>\pgftransformxscale</code> .....	1576		2656, 2657, 2658, 2659, 2660, 2661
<code>\ProcessKeyvalOptions</code> .....	2372	<code>\TestList</code> .	2568, 2570, 2571, 2573, 2584
<code>\protected</code> ...	812, 844, 876, 891, 2309	<code>\TeX</code> .....	52, 53, 54
<code>\ProvidesPackage</code> .....	141, 189	<code>\texorpdfstring</code> ...	720, 741, 765, 790
<code>\psscalebox</code> ...	1537, 1539, 1580, 1582	<code>\text</code> .....	966
<b>Q</b>			
<code>\quad</code> .....	2622, 2624	<code>\textbf</code> .....	48, 108, 110, 111
<b>R</b>			
<code>\raise</code> ....	1298, 1529, 1542, 2166, 2393	<code>\textchi</code> .....	1890
<code>\raisebox</code> .....	68	<code>\textepsilon</code> .....	1157, 1260, 1890
<code>\RangeCatcodeCheck</code> ...	2505, 2533,	<code>\textit</code> .....	108
	2534, 2535, 2536, 2537, 2538,	<code>\textsf</code> .....	100
	2539, 2540, 2541, 2542, 2543, 2544	<code>\textstyle</code> 1137, 1166, 1864, 1882, 1883	
<code>\RangeCatcodeInvalid</code> .....		<code>\textsubscript</code> .....	970
	2497, 2525, 2526, 2527, 2528	<code>\texttt</code> .....	82, 84, 109
<code>\reflectbox</code> .....	1571	<code>\the</code> .....	199, 200, 201,
<code>\renewcommand</code> .....	2615		202, 203, 204, 205, 206, 219,
<code>\repeat</code> ...	2472, 2484, 2495, 2503, 2518		250, 2218, 2491, 2511, 2512, 2564
<code>\RequirePackage</code> ....	341, 342, 343,	<code>\TMP@EnsureCode</code> .....	216,
	344, 345, 346, 347, 348, 349, 2371		223, 224, 225, 226, 227, 228,
<code>\RestoreCatcodes</code> 2486, 2489, 2490, 2545			229, 230, 231, 232, 233, 234,
<code>\rm</code> .....	561		235, 236, 237, 238, 239, 240,
<code>\rmfamily</code> .....	564		241, 242, 243, 244, 245, 246, 247
<code>\rotatebox</code> .....	1524, 1526	<code>\TMP@RequirePackage</code> 322, 328, 329,	
<b>S</b>			
<code>\sbox</code> .....	2562		330, 331, 332, 333, 334, 338, 339
<code>\scriptsize</code> .....	2623	<code>\tracinglostchars</code> .....	1446
<code>\scshape</code> .....	594	<code>\typeout</code> .....	30, 31, 33, 36, 37
<code>\section</code> .....	43, 2631	<b>U</b>	
<code>\selectfont</code> .....		<code>\uppercase</code> .....	900
	92, 96, 103, 585, 615, 956, 1048	<code>\usefont</code> .....	603, 2620
<code>\setbox</code> ....	932, 934, 1040, 1447,	<code>\usepackage</code> .....	5, 10, 11, 12, 14,
	1526, 1539, 2377, 2378, 2390, 2391		15, 16, 17, 25, 2554, 2555, 2556,
<code>\setlength</code> .....	13		2604, 2605, 2606, 2607, 2608, 2609
<code>\SetVariant</code> .	60, 67, 88, 91, 95, 99, 102	<b>V</b>	
<code>\sf</code> .....	569	<code>\varepsilon</code> .....	1137, 1166, 1239, 1267, 1865, 1882
<code>\sf@size</code> .....	583, 956, 1047	<code>\vbox</code> .....	1041
<code>\sffamily</code> .....	572	<code>\vss</code> .....	1052
<code>\space</code> .....	72, 79,	<b>W</b>	
	443, 2511, 2512, 2520, 2564, 2633	<code>\wd</code> ...	933, 935, 2379, 2384, 2392, 2399
<code>\spacefactor</code> .....	938, 2564	<code>\write</code> .....	145, 174
<code>\special</code> .....	2417,	<b>X</b>	
	2425, 2437, 2438, 2440, 2445, 2447	<code>\x</code> .....	136, 137, 140,
<b>T</b>			
<code>\tableofcontents</code> .....	2617		144, 148, 150, 173, 178, 188,
<code>\tabularnewline</code> .....	105, 112		197, 209, 607, 609, 2193, 2195,
<code>\tenlogo</code> .....	624, 626		2217, 2221, 2235, 2237, 2297, 2299
		<code>\XeTeXcharglyph</code> .....	1473
		<code>\XeTeXfonttype</code> .....	1467