

# The `hologo` package

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## Abstract

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

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

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# 1 Documentation

## 1.1 Logo macros

`\hologo {⟨name⟩}`

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

| name        | variant | logo   | since      |
|-------------|---------|--|------------|
| (La)TeX     |         | (L)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 `⟨name⟩` with an uppercase letter. As an exception small greek letters are not converted to uppercase. Examples, see  $\varepsilon$ -TeX and  $\varepsilon_X$ TeX.

## 1.2 Setup macros

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

`\hologoSetup {⟨key value list⟩}`

Macro `\hologoSetup` sets global options.

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

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

### 1.3 Options

There are boolean and string options:

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

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

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

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

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

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

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

Macro `\hologoLogoSetup` also knows:

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

Example:

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

### 1.4 Driver options

Sometimes graphical operations are needed to construct some glyphs (e.g.  $X_{\mathbb{T}}\mathrm{TeX}$ ). 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.

`\hologoDriverSetup {(<driver option>)}`

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

## 1.5 Font setup

Some logos require a special font, but should also be usable by plain  $\text{\TeX}$ . 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                  | $\text{\varepsilon_XTeX}$  |
| $\text{\SliTeX}$       | 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 T<sub>E</sub>X the original small caps variant is used as default. In L<sup>A</sup>T<sub>E</sub>X 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{ifincsname}{%
678     \ifnum\luatexversion<36 %
679       \expandafter\ltx@gobble
680     \else
681       \expandafter\ltx@firstofone
682     \fi
683   {%
684     \begingroup
685     \ifcase0%
686       \directlua{%
687         if tex.enableprimitives then %
688           tex.enableprimitives('Hologo@', {'ifincsname'})%
689         else %
690           tex.print('1')%
691         end%
692       }%
693     \ifx\Hologo@ifincsname\undefined 1\fi%
694     \relax
695     \expandafter\ltx@firstofone
696   \else
697     \endgroup
698     \expandafter\ltx@gobble
699   \fi
700   {%
701     \global\let\ifincsname\Hologo@ifincsname
702   }%
703   \Hologo@temp
704 }%
705 }{}%
706 }
707 \ltx@ifundefined{ifincsname}{%
708   \catcode`\$=14 %
709 }{%
710   \catcode`\$=9 %
```

```

711 }

\hologo
712 \def\hologo#1{%
713 $ \ifincsname
714 $ \ltx@ifundefined{HoLogoCs@\HOLOGO@Variant{#1}}{%
715 $ #1%
716 $ }{%
717 $ \csname HoLogoCs@\HOLOGO@Variant{#1}\endcsname\ltx@firstoftwo
718 $ }%
719 $ \else
720 \HOLOGO@IfExists\texorpdfstring\texorpdfstring\ltx@firstoftwo
721 {%
722 \hologoRobust{#1}%
723 }{%
724 \ltx@ifundefined{HoLogoBkm@\HOLOGO@Variant{#1}}{%
725 \ltx@ifundefined{HoLogo@#1}{?#1?}{#1}%
726 }{%
727 \csname HoLogoBkm@\HOLOGO@Variant{#1}\endcsname
728 \ltx@firstoftwo
729 }%
730 }%
731 $ \fi
732 }

\Hologo
733 \def\Hologo#1{%
734 $ \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   \mathsurround0pt\relax
910   \HOLOGO@ifexists\series{%
911     \if b\expandafter\ltx@car\series x\nil

```

```

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

```

\HOLOGO@TempDimen

```

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

```

\HOLOGO@NegativeKerning

```

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

```

\HOLOGO@@NegativeKerning

```

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

```

\HOLOGO@SpaceFactor

```

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

```

\HOLOGO@Span

```

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

```

## 2.8.1 Text subscript

\HOLOGO@SubScript

```

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

```

```

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

```

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

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

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

```

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

```

\HoLogoHtml@TeX

```

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

```

\HoLogoCss@TeX

```

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

```

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

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

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

\HoLogoCs@plainTeX@space

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

\HoLogoBkm@plainTeX@space

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

\HoLogoHtml@plainTeX@space

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

\HoLogo@plainTeX@hyphen

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

\HoLogoCs@plainTeX@hyphen

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

\HoLogoBkm@plainTeX@hyphen

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

\HoLogoHtml@plainTeX@hyphen

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

\HoLogo@plainTeX@runtogether

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

\HoLogoCs@plainTeX@runtogether

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

\HoLogoBkm@plainTeX@runtogether

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

\HoLogoHtml@plainTeX@runtogether

```
1029 \def\HoLogoHtml@plainTeX@runtogether#1{%  
1030   #1{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     \hologo{TeX}%
1408   }%
1409 }
```

\HoLogoHtml@LuaTeX

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

### 2.9.13 LuaLaTeX

\HoLogo@LuaLaTeX

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

\HoLogoHtml@LuaLaTeX

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

### 2.9.14 XeTeX, XeLaTeX

\HOLOGO@IfCharExists

```
1418 \ifluatex
1419   \ifnum\luatexversion<36 %
1420   \else
1421     \def\HOLOGO@IfCharExists#1{%
1422       \ifnum
1423         \directlua{%
1424           if luaotfload and luaotfload.aux then
1425             if luaotfload.aux.font_has_glyph(%
1426               font.current(), \number#1) then %
1427               tex.print("1") %
1428             end %
1429           elseif font and font.fonts and font.current then %
1430             local f = font.fonts[font.current()]%
1431             if f.characters and f.characters[\number#1] then %
1432               tex.print("1")%
1433             end %
1434           }
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>E<sub>X</sub>8

\HoLogo@BibTeX8

```

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

```

\HoLogoBkm@BibTeX8

```

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

```

\HoLogoHtml@BibTeX8

```

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

```

## 2.9.20 Con<sub>T</sub>E<sub>X</sub>t

\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%
    \TeX
  }%
}

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   \HOLGO@mbbox{#1{t}{T}e}%
2001   \HOLGO@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   \HOLGO@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   \HOLGO@mbbox{Sage}%
2017   \HOLGO@discretionary
2018   \HOLGO@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     \HOLGO@mbbox{META}%
2025     \HOLGO@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{holologo.cfg}{}{}%
2184 }{%
2185   \ltx@ifundefined{pdf@filesize}{%
2186     \def\HOLOGO@InputIfExists{%
2187       \openin\HOLOGO@temp=holologo.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{holologo.cfg}%
2197         \else
2198           \input holologo.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{holologo}{%
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 0pt{\copy\ltx@zero\hss}%
2382     }%
2383   }%
2384   \wd\ltx@two=\wd\ltx@zero
2385   \box\ltx@two
2386 \endgroup
2387 }

```

\HOLOGO@PointReflectBox

```

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

```

We must define all variants because of dynamic driver setup.

```

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

```

\HOLOGO@ScaleBox@pdftex

```

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

```

\HOLOGO@ScaleBox@dvips

```

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

```

```

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

```

\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  $\TeX$  Files” (CTAN:pkg/tds). 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
```

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

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

## 4.4 Refresh file name databases

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

## 4.5 Some details for the interested

**Unpacking with L<sup>A</sup>T<sub>E</sub>X.** The `.dtx` chooses its action depending on the format:

**plain T<sub>E</sub>X:** Run `docstrip` and extract the files.

**L<sup>A</sup>T<sub>E</sub>X:** Generate the documentation.

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

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

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

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

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

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

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

## 5 References

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

## 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 $\text{A}$  $T_{\text{E}}X$ 3 added.
- V $T_{\text{E}}X$  added.

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

- `ini $T_{\text{E}}X$` , `vir $T_{\text{E}}X$`  added.

### [2011/03/25 v1.4]

- Con $T_{\text{E}}X$ t with variants added.
- Option `discretionarybreak` added as refinement for option `break`.

[2011/04/21 v1.5]

- Wrong TDS directory for test files fixed.

[2011/10/01 v1.6]

- Support for package `tex4ht` added.
- Support for `\csname` added if `\ifincsn` is available.
- New logos: `\LaTeX`, `biber`, `BIBTeX` (`sc`, `sf`), `emTeX`, `\epsilonTeX`, `KOMA-Script`, `La`, `LYX`, `MiKTeX`, `\mathcal`, `OzMF`, `OzMP`, `OzTeX`, `OzTtH`, `PCTeX`, `PjC`, `PjCTeX`, `METAfont`, `MetaFun`, `METAPOST`, `MetaPost`, `SLTeX` (`lift`, `narrow`, `simple`), `SLiTeX` (`narrow`, `simple`, `lift`), `teTeX`.
- Fixes: `iniTeX`, `pdfLaTeX`, `pdfTeX`, `virTeX`.
- `\hologoFontSetup` and `\hologoLogoFontSetup` added.
- `\hologoVariant` and `\HologoVariant` added.

[2011/11/22 v1.7]

- New logos: `BIBTeX8`, `LaTeXML`, `SageTeX`, `TeX4ht`, `TtH`.
- `XY` and friends: Driver stuff fixed.
- `XY` and friends: Support for italic added.
- `XY` and friends: Package support for `pgf` and `pstricks` added.

[2011/11/29 v1.8]

- New logos: Hàn Thế Thành.

[2011/12/21 v1.9]

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

[2012/04/26 v1.10]

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

[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

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