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/hologo/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`		(LA)TEX	2011/10/01
`AmSLaTeX`		AMS-LATEX	2010/04/16
`AmSTeX`		AMS-TEX	2010/04/16
`biber`		biber	2011/10/01
`BibTeX`		BIBTEX	2011/10/01
`BibTeX`	`sf`	BIBTEX	2011/10/01
`BibTeX`	`sc`	BIBTEX	2011/10/01
`BibTeX8`		BIBTEX8	2011/11/22
`ConTeXt`		ConTEXt	2011/03/25
`ConTeXt`	`narrow`	ConTEXt	2011/03/25
`ConTeXt`	`simple`	ConTEXt	2011/03/25
`emTeX`		emTEX	2010/04/26
`eTeX`		ε-TEX	2010/04/08
`ExTeX`		εχTEX	2011/10/01
`HanTheThanh`		Hàn Thế Thành	2011/11/29
`iniTeX`		iniTEX	2011/10/01
`KOMAScript`		KOMA-Script	2011/10/01
`La`		LA	2010/05/08
`LaTeX`		LATEX	2010/04/08
`LaTeX2e`		LATEX 2ε	2010/04/08
`LaTeX3`		LATEX3	2010/04/24
`LaTeXe`		LATEX 2ε	2010/04/08
`LaTeXML`		LATEXML	2011/11/22
`LaTeXTeX`		(LA)TEX	2011/10/01
`LuaLaTeX`		LuaLATEX	2010/04/08
`LuaTeX`		LuaTEX	2010/04/08
`LyX`		LYX	2011/10/01
`METAFONT`		METAFONT	2011/10/01
`MetaFun`		MetaFun	2011/10/01
`METAPOST`		METAPOST	2011/10/01
`MetaPost`		MetaPost	2011/10/01
`MiKTeX`		MiKTEX	2011/10/01
`NTS`		NTS	2011/10/01
`OzMF`		OzMF	2011/10/01

name	variant	logo	since
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		TTH	2011/11/22
virTeX		virTEX	2011/10/01
VTeX		VTEX	2010/04/24
Xe		XE	2010/04/08
XeLaTeX		XELATEX	2010/04/08
XeTeX		XETEX	2010/04/08

`\Hologo` {⟨*name*⟩}

Macro `\Hologo` starts the logo ⟨*name*⟩ with an uppercase letter. As an exception small greek letters are not converted to uppercase. Examples, see ε-TEX and ε_XTEX.

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. XETEX). If package graphics or package pgf are found, then the macros are taken from there. Otherwise the packge defines its own operations and therefore needs the driver information. Many drivers are detected automatically (pdfTEX/LuaTEX in PDF mode, XETEX, VTEX). These have precedence over a driver option. The driver can be given as package option or using `\hologoDriverSetup`. The following list contains the recognized driver options:

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

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

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

`\hologoDriverSetup` {⟨*driver option*⟩}

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

1.5 Font setup

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

`\hologoFontSetup {`⟨*key value list*⟩`}`

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

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

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

rm: This font is a serif font. It is used for ε_XTEX.

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

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

sy: This is the font for math symbols (e.g. cmsy). It is used by $\mathcal{AMS}$, $\mathcal{NTS}$, ε_XTEX.

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

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

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

⟨*logo*⟩	keys	result
BibTeX	bibsf	BIBTEX
BibTeX	sc	BIBTEX
ExTeX	rm	ε_XTEX
SliTeX	rm	SLITEX
AmS	sy	$\mathcal{AMS}$
ExTeX	sy	ε_XTEX
NTS	sy	$\mathcal{NTS}$
KOMAScript	sf	KOMA-Script
METAFONT	logo	METAFONT
METAPOST	logo	METAPOST
SliTeX	sc	SLITEX

1.5.1 Font order

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

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

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

1.6 Additional user macros

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

`\hologoVariant` {⟨*name*⟩} {⟨*variant*⟩}
`\HologoVariant` {⟨*name*⟩} {⟨*variant*⟩}

Logo ⟨*name*⟩ is set using ⟨*variant*⟩ that specifies explicitely 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` {⟨*logo*⟩} {⟨*variant*⟩} {⟨*since*⟩}

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 ⟨*logo*⟩ and its variant ⟨*variant*⟩. An empty variant means the current default. Argument ⟨*since*⟩ 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 ⟨*since*⟩ 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:

- LaTeX's protection mechanism.
- Bookmarks of package hyperref.
- Package tex4ht.
- The macros can be used inside `\csname` constructs, if `\ifincsname` is available (pdfTeX, XeTeX, LuaTeX).

1.8 Example

The following example prints the logos in different fonts.

```
1 ⟨*example⟩
2 %<<verbatim
3 \NeedsTeXFormat{LaTeX2e}
4 \documentclass[a4paper]{article}
5 \usepackage[
6   hmargin=20mm,
```

```
  vmargin=20mm,
]{geometry}
\pagestyle{empty}
\usepackage{hologo}[2019/12/05]
\usepackage{longtable}
\usepackage{array}
\setlength{\extrarowheight}{2pt}
\usepackage[T1]{fontenc}
\usepackage{lmodern}
\usepackage{pdflscape}
\usepackage[
  pdfencoding=auto,
]{hyperref}
\hypersetup{
  pdfauthor={Heiko Oberdiek},
  pdftitle={Example for package 'hologo'},
  pdfsubject={Logos with fonts lmr, lmss, qtm, qpl, qhv},
}
\usepackage{bookmark}

% Print the logo list on the console

\begingroup
  \typeout{}%
  \typeout{*** Begin of logo list ***}%
  \newcommand*{\hologoEntry}[3]{%
    \typeout{#1 \ifx\\#2\\\else(#2) \fi[#3]}%
  }%
  \hologoList
  \typeout{*** End of logo list ***}%
  \typeout{}%
\endgroup

\begin{document}
\begin{landscape}

  \section{Example file for package 'hologo'}

  % Table for font names

  \begin{longtable}{>{\bfseries}ll}
    \textbf{font} & \textbf{Font name}\\
    \hline
    lmr & Latin Modern Roman\\
    lmss & Latin Modern Sans\\
    qtm & \TeX\ Gyre Termes\\
    qhv & \TeX\ Gyre Heros\\
    qpl & \TeX\ Gyre Pagella\\
  \end{longtable}

  % Logo list with logos in different fonts

  \begingroup
    \newcommand*{\SetVariant}[2]{%
      \ifx\\#2\\%
      \else
        \hologoLogoSetup{#1}{variant=#2}%
      \fi
```

```
    }%
    \newcommand*{\hologoEntry}[3]{%
      \SetVariant{#1}{#2}%
      \raisebox{1em}[0pt][0pt]{\hypertarget{#1@#2}{}}%
      \bookmark[%
        dest={#1@#2},%
      ]{%
        #1\ifx\\#2\\\else\space(#2)\fi: \Hologo{#1}, \hologo{#1} %
        [Unicode]%
      }%
      \hypersetup{unicode=false}%
      \bookmark[%
        dest={#1@#2},%
      ]{%
        #1\ifx\\#2\\\else\space(#2)\fi: \Hologo{#1}, \hologo{#1} %
        [PDFDocEncoding]%
      }%
      \texttt{#1}%
      &%
      \texttt{#2}%
      &%
      \Hologo{#1}%
      &%
      \SetVariant{#1}{#2}%
      \hologo{#1}%
      &%
      \SetVariant{#1}{#2}%
      \fontfamily{qtm}\selectfont
      \hologo{#1}%
      &%
      \SetVariant{#1}{#2}%
      \fontfamily{qpl}\selectfont
      \hologo{#1}%
      &%
      \SetVariant{#1}{#2}%
      \textsf{\hologo{#1}}%
      &%
      \SetVariant{#1}{#2}%
      \fontfamily{qhv}\selectfont
      \hologo{#1}%
      \tabularnewline
    }%
    \begin{longtable}{llllllll}%
      \textbf{\textit{logo}} & \textbf{\textit{variant}} &
      \texttt{\string\Hologo} &
      \textbf{lmr} & \textbf{qtm} & \textbf{qpl} &
      \textbf{lmss} & \textbf{qhv}
      \tabularnewline
      \hline
      \endhead
      \hologoList
    \end{longtable}%
  \endgroup

\end{landscape}
\end{document}
%verbatim
⟨/example⟩
```

2 Implementation

123 ⟨*package⟩

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

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

Package identification:

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

```
  \else
    \def\x#1#2[#3]{\endgroup
      #2[{#3}]%
      \ifx#1\@undefined
        \xdef#1{#3}%
      \fi
      \ifx#1\relax
        \xdef#1{#3}%
      \fi
    }%
  \fi
\expandafter\x\csname ver@hologo.sty\endcsname
\ProvidesPackage{hologo}%
  [2021-11-16 v1.15 A logo collection with bookmark support (HO)]%
\begingroup\catcode61\catcode48\catcode32=10\relax%
  \catcode13=5 % ^^M
  \endlinechar=13 %
  \catcode123=1 % {
  \catcode125=2 % }
  \catcode64=11 % @
  \def\x{\endgroup
    \expandafter\edef\csname HOLOGO@AtEnd\endcsname{%
      \endlinechar=\the\endlinechar\relax
      \catcode13=\the\catcode13\relax
      \catcode32=\the\catcode32\relax
      \catcode35=\the\catcode35\relax
      \catcode61=\the\catcode61\relax
      \catcode64=\the\catcode64\relax
      \catcode123=\the\catcode123\relax
      \catcode125=\the\catcode125\relax
    }%
  }%
\x\catcode61\catcode48\catcode32=10\relax%
\catcode13=5 % ^^M
\endlinechar=13 %
\catcode35=6 % #
\catcode64=11 % @
\catcode123=1 % {
\catcode125=2 % }
\def\TMP@EnsureCode#1#2{%
  \edef\HOLOGO@AtEnd{%
    \HOLOGO@AtEnd
    \catcode#1=\the\catcode#1\relax
  }%
  \catcode#1=#2\relax
}
\TMP@EnsureCode{10}{12}% ^^J
\TMP@EnsureCode{33}{12}% !
\TMP@EnsureCode{34}{12}% "
\TMP@EnsureCode{36}{3}% $
\TMP@EnsureCode{38}{4}% &
\TMP@EnsureCode{39}{12}% '
\TMP@EnsureCode{40}{12}% (
\TMP@EnsureCode{41}{12}% )
\TMP@EnsureCode{42}{12}% *
\TMP@EnsureCode{43}{12}% +
\TMP@EnsureCode{44}{12}% ,
\TMP@EnsureCode{45}{12}% -
```

```
\TMP@EnsureCode{46}{12}% .
\TMP@EnsureCode{47}{12}% /
\TMP@EnsureCode{58}{12}% :
\TMP@EnsureCode{59}{12}% ;
\TMP@EnsureCode{60}{12}% <
\TMP@EnsureCode{62}{12}% >
\TMP@EnsureCode{63}{12}% ?
\TMP@EnsureCode{91}{12}% [
\TMP@EnsureCode{93}{12}% ]
\TMP@EnsureCode{94}{7}% ^ (superscript)
\TMP@EnsureCode{95}{8}% _ (subscript)
\TMP@EnsureCode{96}{12}% `
\TMP@EnsureCode{124}{12}% |
\edef\HOLOGO@AtEnd{%
  \HOLOGO@AtEnd
  \escapechar\the\escapechar\relax
  \noexpand\endinput
}
\escapechar=92 %
```

2.1 Logo list

\hologoList

```
\def\hologoList{%
  \hologoEntry{(La)TeX}{}{2011/10/01}%
  \hologoEntry{AmSLaTeX}{}{2010/04/16}%
  \hologoEntry{AmSTeX}{}{2010/04/16}%
  \hologoEntry{biber}{}{2011/10/01}%
  \hologoEntry{BibTeX}{}{2011/10/01}%
  \hologoEntry{BibTeX}{sf}{2011/10/01}%
  \hologoEntry{BibTeX}{sc}{2011/10/01}%
  \hologoEntry{BibTeX8}{}{2011/11/22}%
  \hologoEntry{ConTeXt}{}{2011/03/25}%
  \hologoEntry{ConTeXt}{narrow}{2011/03/25}%
  \hologoEntry{ConTeXt}{simple}{2011/03/25}%
  \hologoEntry{emTeX}{}{2010/04/26}%
  \hologoEntry{eTeX}{}{2010/04/08}%
  \hologoEntry{ExTeX}{}{2011/10/01}%
  \hologoEntry{HanTheThanh}{}{2011/11/29}%
  \hologoEntry{iniTeX}{}{2011/10/01}%
  \hologoEntry{KOMAScript}{}{2011/10/01}%
  \hologoEntry{La}{}{2010/05/08}%
  \hologoEntry{LaTeX}{}{2010/04/08}%
  \hologoEntry{LaTeX2e}{}{2010/04/08}%
  \hologoEntry{LaTeX3}{}{2010/04/24}%
  \hologoEntry{LaTeXe}{}{2010/04/08}%
  \hologoEntry{LaTeXML}{}{2011/11/22}%
  \hologoEntry{LaTeXTeX}{}{2011/10/01}%
  \hologoEntry{LuaLaTeX}{}{2010/04/08}%
  \hologoEntry{LuaTeX}{}{2010/04/08}%
  \hologoEntry{LyX}{}{2011/10/01}%
  \hologoEntry{METAFONT}{}{2011/10/01}%
  \hologoEntry{MetaFun}{}{2011/10/01}%
  \hologoEntry{METAPOST}{}{2011/10/01}%
  \hologoEntry{MetaPost}{}{2011/10/01}%
  \hologoEntry{MiKTeX}{}{2011/10/01}%
  \hologoEntry{NTS}{}{2011/10/01}%
  \hologoEntry{OzMF}{}{2011/10/01}%
  \hologoEntry{OzMP}{}{2011/10/01}%
```

```
  \hologoEntry{OzTeX}{}{2011/10/01}%
  \hologoEntry{OzTtH}{}{2011/10/01}%
  \hologoEntry{PCTeX}{}{2011/10/01}%
  \hologoEntry{pdfTeX}{}{2011/10/01}%
  \hologoEntry{pdfLaTeX}{}{2011/10/01}%
  \hologoEntry{PiC}{}{2011/10/01}%
  \hologoEntry{PiCTeX}{}{2011/10/01}%
  \hologoEntry{plainTeX}{}{2010/04/08}%
  \hologoEntry{plainTeX}{space}{2010/04/16}%
  \hologoEntry{plainTeX}{hyphen}{2010/04/16}%
  \hologoEntry{plainTeX}{runtogether}{2010/04/16}%
  \hologoEntry{SageTeX}{}{2011/11/22}%
  \hologoEntry{SLiTeX}{}{2011/10/01}%
  \hologoEntry{SLiTeX}{lift}{2011/10/01}%
  \hologoEntry{SLiTeX}{narrow}{2011/10/01}%
  \hologoEntry{SLiTeX}{simple}{2011/10/01}%
  \hologoEntry{SliTeX}{}{2011/10/01}%
  \hologoEntry{SliTeX}{narrow}{2011/10/01}%
  \hologoEntry{SliTeX}{simple}{2011/10/01}%
  \hologoEntry{SliTeX}{lift}{2011/10/01}%
  \hologoEntry{teTeX}{}{2011/10/01}%
  \hologoEntry{TeX}{}{2010/04/08}%
  \hologoEntry{TeX4ht}{}{2011/11/22}%
  \hologoEntry{TTH}{}{2011/11/22}%
  \hologoEntry{virTeX}{}{2011/10/01}%
  \hologoEntry{VTeX}{}{2010/04/24}%
  \hologoEntry{Xe}{}{2010/04/08}%
  \hologoEntry{XeLaTeX}{}{2010/04/08}%
  \hologoEntry{XeTeX}{}{2010/04/08}%
}
```

2.2 Load resources

```
\begingroup\expandafter\expandafter\expandafter\endgroup
\expandafter\ifx\csname RequirePackage\endcsname\relax
  \def\TMP@RequirePackage#1[#2]{%
    \begingroup\expandafter\expandafter\expandafter\endgroup
    \expandafter\ifx\csname ver@#1.sty\endcsname\relax
      \input #1.sty\relax
    \fi
  }%
  \TMP@RequirePackage{ltxcmds}[2011/02/04]%
  \TMP@RequirePackage{infwarerr}[2010/04/08]%
  \TMP@RequirePackage{kvsetkeys}[2010/03/01]%
  \TMP@RequirePackage{kvdefinekeys}[2010/03/01]%
  \TMP@RequirePackage{pdftexcmds}[2010/04/01]%
  \TMP@RequirePackage{iftex}[2019/11/07]%
  \ltx@IfUndefined{newif}{%
    \expandafter\let\csname newif\endcsname\ltx@newif
  }{}%
\else
  \RequirePackage{ltxcmds}[2011/02/04]%
  \RequirePackage{infwarerr}[2010/04/08]%
  \RequirePackage{kvsetkeys}[2010/03/01]%
  \RequirePackage{kvdefinekeys}[2010/03/01]%
  \RequirePackage{pdftexcmds}[2010/04/01]%
  \RequirePackage{iftex}[2019/11/07]%
\fi
```

\HOLOGO@IfDefined

```
\def\HOLOGO@IfExists#1{%
  \ifx\@undefined#1%
    \expandafter\ltx@secondoftwo
  \else
    \ifx\relax#1%
      \expandafter\ltx@secondoftwo
    \else
      \expandafter\expandafter\expandafter\ltx@firstoftwo
    \fi
  \fi
}
```

2.3 Setup macros

\hologoSetup

```
\def\hologoSetup{%
  \let\HOLOGO@name\relax
  \HOLOGO@Setup
}
```

\hologoLogoSetup

```
\def\hologoLogoSetup#1{%
  \edef\HOLOGO@name{#1}%
  \ltx@IfUndefined{HoLogo@\HOLOGO@name}{%
    \@PackageError{hologo}{%
      Unknown logo `\HOLOGO@name'%
    }\@ehc
    \ltx@gobble
  }{%
    \HOLOGO@Setup
  }%
}
```

\HOLOGO@Setup

```
\def\HOLOGO@Setup{%
  \kvsetkeys{HoLogo}%
}
```

2.4 Options

\HOLOGO@DeclareBoolOption

```
\def\HOLOGO@DeclareBoolOption#1{%
  \expandafter\chardef\csname HOLOGOOPT@#1\endcsname\ltx@zero
  \kv@define@key{HoLogo}{#1}[true]{%
    \def\HOLOGO@temp{##1}%
    \ifx\HOLOGO@temp\HOLOGO@true
      \ifx\HOLOGO@name\relax
        \expandafter\chardef\csname HOLOGOOPT@#1\endcsname=\ltx@one
      \else
        \expandafter\chardef\csname
        HoLogoOpt@#1@\HOLOGO@name\endcsname\ltx@one
      \fi
      \HOLOGO@SetBreakAll{#1}%
    \else
      \ifx\HOLOGO@temp\HOLOGO@false
        \ifx\HOLOGO@name\relax
```

```
          \expandafter\chardef\csname HOLOGOOPT@#1\endcsname=\ltx@zero
        \else
          \expandafter\chardef\csname
          HoLogoOpt@#1@\HOLOGO@name\endcsname=\ltx@zero
        \fi
        \HOLOGO@SetBreakAll{#1}%
      \else
        \@PackageError{hologo}{%
          Unknown value `##1' for boolean option `#1'.\MessageBreak
          Known values are `true' and `false'%
        }\@ehc
      \fi
    \fi
  }%
}
```

\HOLOGO@SetBreakAll

```
\def\HOLOGO@SetBreakAll#1{%
  \def\HOLOGO@temp{#1}%
  \ifx\HOLOGO@temp\HOLOGO@break
    \ifx\HOLOGO@name\relax
      \chardef\HOLOGOOPT@hyphenbreak=\HOLOGOOPT@break
      \chardef\HOLOGOOPT@spacebreak=\HOLOGOOPT@break
      \chardef\HOLOGOOPT@discretionarybreak=\HOLOGOOPT@break
    \else
      \expandafter\chardef
         \csname HoLogoOpt@hyphenbreak@\HOLOGO@name\endcsname=%
         \csname HoLogoOpt@break@\HOLOGO@name\endcsname
      \expandafter\chardef
         \csname HoLogoOpt@spacebreak@\HOLOGO@name\endcsname=%
         \csname HoLogoOpt@break@\HOLOGO@name\endcsname
      \expandafter\chardef
         \csname HoLogoOpt@discretionarybreak@\HOLOGO@name
             \endcsname=%
         \csname HoLogoOpt@break@\HOLOGO@name\endcsname
    \fi
  \fi
}
```

\HOLOGO@true

```
\def\HOLOGO@true{true}
```

\HOLOGO@false

```
\def\HOLOGO@false{false}
```

\HOLOGO@break

```
\def\HOLOGO@break{break}

\HOLOGO@DeclareBoolOption{break}
\HOLOGO@DeclareBoolOption{hyphenbreak}
\HOLOGO@DeclareBoolOption{spacebreak}
\HOLOGO@DeclareBoolOption{discretionarybreak}

\kv@define@key{HoLogo}{variant}{%
  \ifx\HOLOGO@name\relax
    \@PackageError{hologo}{%
      Option `variant' is not available in \string\hologoSetup,%
      \MessageBreak
      Use \string\hologoLogoSetup\space instead%
```

```
    }\@ehc
  \else
    \edef\HOLOGO@temp{#1}%
    \ifx\HOLOGO@temp\ltx@empty
      \expandafter
      \let\csname HoLogoOpt@variant@\HOLOGO@name\endcsname\@undefined
    \else
      \ltx@IfUndefined{HoLogo@\HOLOGO@name @\HOLOGO@temp}{%
        \@PackageError{hologo}{%
          Unknown variant `\HOLOGO@temp' of logo `\HOLOGO@name'%
        }\@ehc
      }{%
        \expandafter
        \let\csname HoLogoOpt@variant@\HOLOGO@name\endcsname
            \HOLOGO@temp
      }%
    \fi
  \fi
}
```

\HOLOGO@Variant

```
\def\HOLOGO@Variant#1{%
  #1%
  \ltx@ifundefined{HoLogoOpt@variant@#1}{%
  }{%
    @\csname HoLogoOpt@variant@#1\endcsname
  }%
}
```

2.5 Break/no-break support

\HOLOGO@space

```
\def\HOLOGO@space{%
  \ltx@ifundefined{HoLogoOpt@spacebreak@\HOLOGO@name}{%
    \ltx@ifundefined{HoLogoOpt@break@\HOLOGO@name}{%
      \chardef\HOLOGO@temp=\HOLOGOOPT@spacebreak
    }{%
      \chardef\HOLOGO@temp=%
        \csname HoLogoOpt@break@\HOLOGO@name\endcsname
    }%
  }{%
    \chardef\HOLOGO@temp=%
      \csname HoLogoOpt@spacebreak@\HOLOGO@name\endcsname
  }%
  \ifcase\HOLOGO@temp
    \penalty10000 %
  \fi
  \ltx@space
}
```

\HOLOGO@hyphen

```
\def\HOLOGO@hyphen{%
  \ltx@ifundefined{HoLogoOpt@hyphenbreak@\HOLOGO@name}{%
    \ltx@ifundefined{HoLogoOpt@break@\HOLOGO@name}{%
      \chardef\HOLOGO@temp=\HOLOGOOPT@hyphenbreak
    }{%
      \chardef\HOLOGO@temp=%
        \csname HoLogoOpt@break@\HOLOGO@name\endcsname
```

```
    }%
  }{%
    \chardef\HOLOGO@temp=%
      \csname HoLogoOpt@hyphenbreak@\HOLOGO@name\endcsname
  }%
  \ifcase\HOLOGO@temp
    \ltx@mbox{-}%
  \else
    -%
  \fi
}
```

\HOLOGO@discretionary

```
\def\HOLOGO@discretionary{%
  \ltx@ifundefined{HoLogoOpt@discretionarybreak@\HOLOGO@name}{%
    \ltx@ifundefined{HoLogoOpt@break@\HOLOGO@name}{%
      \chardef\HOLOGO@temp=\HOLOGOOPT@discretionarybreak
    }{%
      \chardef\HOLOGO@temp=%
        \csname HoLogoOpt@break@\HOLOGO@name\endcsname
    }%
  }{%
    \chardef\HOLOGO@temp=%
      \csname HoLogoOpt@discretionarybreak@\HOLOGO@name\endcsname
  }%
  \ifcase\HOLOGO@temp
  \else
    \-%
  \fi
}
```

\HOLOGO@mbox

```
\def\HOLOGO@mbox#1{%
  \ltx@ifundefined{HoLogoOpt@break@\HOLOGO@name}{%
    \chardef\HOLOGO@temp=\HOLOGOOPT@hyphenbreak
  }{%
    \chardef\HOLOGO@temp=%
      \csname HoLogoOpt@break@\HOLOGO@name\endcsname
  }%
  \ifcase\HOLOGO@temp
    \ltx@mbox{#1}%
  \else
    #1%
  \fi
}
```

2.6 Font support

\HoLogoFont@font

#1: logo name
#2: font short name
#3: text

```
\def\HoLogoFont@font#1#2#3{%
  \begingroup
    \ltx@IfUndefined{HoLogoFont@logo@#1.#2}{%
      \ltx@IfUndefined{HoLogoFont@font@#2}{%
        \@PackageWarning{hologo}{%
          Missing font `#2' for logo `#1'%
```

```
        }%
        #3%
      }{%
        \csname HoLogoFont@font@#2\endcsname{#3}%
      }%
    }{%
      \csname HoLogoFont@logo@#1.#2\endcsname{#3}%
    }%
  \endgroup
}
```

\HoLogoFont@Def

```
\def\HoLogoFont@Def#1{%
  \expandafter\def\csname HoLogoFont@font@#1\endcsname
}
```

\HoLogoFont@LogoDef

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

2.6.1 Font defaults

\HoLogoFont@font@general

```
\HoLogoFont@Def{general}{}%
```

\HoLogoFont@font@rm

```
\ltx@IfUndefined{rmfamily}{%
  \ltx@IfUndefined{rm}{%
  }{%
    \HoLogoFont@Def{rm}{\rm}%
  }%
}{%
  \HoLogoFont@Def{rm}{\rmfamily}%
}
```

\HoLogoFont@font@sf

```
\ltx@IfUndefined{sffamily}{%
  \ltx@IfUndefined{sf}{%
  }{%
    \HoLogoFont@Def{sf}{\sf}%
  }%
}{%
  \HoLogoFont@Def{sf}{\sffamily}%
}
```

\HoLogoFont@font@bibsf

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

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

```
      I%
      \kern-.025em%
      B
    }%
    \kern-.08em%
    \-%
    \TeX
  }
\ltx@IfUndefined{selectfont}{%
  \ltx@IfUndefined{tensc}{%
    \font\tensc=cmcsc10\relax
  }{}%
  \HoLogoFont@Def{bibsf}{\tensc}%
}{%
  \HoLogoFont@Def{bibsf}{%
    $\mathsurround=0pt$%
    \csname S@\f@size\endcsname
    \fontsize\sf@size{0pt}%
    \math@fontsfalse
    \selectfont
  }%
}
```

\HoLogoFont@font@sc

```
\ltx@IfUndefined{scshape}{%
  \ltx@IfUndefined{tensc}{%
    \font\tensc=cmcsc10\relax
  }{}%
  \HoLogoFont@Def{sc}{\tensc}%
}{%
  \HoLogoFont@Def{sc}{\scshape}%
}
```

\HoLogoFont@font@sy

```
\ltx@IfUndefined{usefont}{%
  \ltx@IfUndefined{tensy}{%
  }{%
    \HoLogoFont@Def{sy}{\tensy}%
  }%
}{%
  \HoLogoFont@Def{sy}{%
    \usefont{OMS}{cmsy}{m}{n}%
  }%
}
```

\HoLogoFont@font@logo

```
\begingroup
  \def\x{LaTeX2e}%
\expandafter\endgroup
\ifx\fmtname\x
  \ltx@IfUndefined{logofamily}{%
    \DeclareRobustCommand\logofamily{%
      \not@math@alphabet\logofamily\relax
      \fontencoding{U}%
      \fontfamily{logo}%
      \selectfont
    }%
```

```
  }{}%
  \ltx@IfUndefined{logofamily}{%
  }{%
    \HoLogoFont@Def{logo}{\logofamily}%
  }%
\else
  \ltx@IfUndefined{tenlogo}{%
    \font\tenlogo=logo10\relax
  }{}%
  \HoLogoFont@Def{logo}{\tenlogo}%
\fi
```

2.6.2 Font setup

\hologoFontSetup

```
\def\hologoFontSetup{%
  \let\HOLOGO@name\relax
  \HOLOGO@FontSetup
}
```

\hologoLogoFontSetup

```
\def\hologoLogoFontSetup#1{%
  \edef\HOLOGO@name{#1}%
  \ltx@IfUndefined{HoLogo@\HOLOGO@name}{%
    \@PackageError{hologo}{%
      Unknown logo `\HOLOGO@name'%
    }\@ehc
    \ltx@gobble
  }{%
    \HOLOGO@FontSetup
  }%
}
```

\HOLOGO@FontSetup

```
\def\HOLOGO@FontSetup{%
  \kvsetkeys{HoLogoFont}%
}

\def\HOLOGO@temp#1{%
  \kv@define@key{HoLogoFont}{#1}{%
    \ifx\HOLOGO@name\relax
      \HoLogoFont@Def{#1}{##1}%
    \else
      \HoLogoFont@LogoDef\HOLOGO@name{#1}{##1}%
    \fi
  }%
}
\HOLOGO@temp{general}
\HOLOGO@temp{sf}
```

2.7 Generic logo commands

```
\HOLOGO@IfExists\hologo{%
  \@PackageError{hologo}{%
    \string\hologo\ltx@space is already defined.\MessageBreak
    Package loading is aborted%
  }\@ehc
  \HOLOGO@AtEnd
```

```
}%
\HOLOGO@IfExists\hologoRobust{%
  \@PackageError{hologo}{%
    \string\hologoRobust\ltx@space is already defined.\MessageBreak
    Package loading is aborted%
  }\@ehc
  \HOLOGO@AtEnd
}%
```

2.7.1 \hologo and friends

```
\ifluatex
  \expandafter\ltx@firstofone
\else
  \expandafter\ltx@gobble
\fi
{%
  \ltx@IfUndefined{ifincsname}{%
    \ifnum\luatexversion<36 %
      \expandafter\ltx@gobble
    \else
      \expandafter\ltx@firstofone
    \fi
    {%
      \begingroup
        \ifcase0%
            \directlua{%
              if tex.enableprimitives then %
                tex.enableprimitives('HOLOGO@', {'ifincsname'})%
              else %
                tex.print('1')%
              end%
            }%
            \ifx\HOLOGO@ifincsname\@undefined 1\fi%
            \relax
          \expandafter\ltx@firstofone
        \else
          \endgroup
          \expandafter\ltx@gobble
        \fi
        {%
          \global\let\ifincsname\HOLOGO@ifincsname
        }%
      \HOLOGO@temp
    }%
  }{}%
}
```

```
\ltx@IfUndefined{ifincsname}{%
  \catcode`$=14 %
}{%
  \catcode`$=9 %
}
```

\hologo

```
\def\hologo#1{%
$ \ifincsname
$   \ltx@ifundefined{HoLogoCs@\HOLOGO@Variant{#1}}{%
$     #1%
$   }{%
```

```
$     \csname HoLogoCs@\HOLOGO@Variant{#1}\endcsname\ltx@firstoftwo
$   }%
$ \else
    \HOLOGO@IfExists\texorpdfstring\texorpdfstring\ltx@firstoftwo
    {%
      \hologoRobust{#1}%
    }{%
      \ltx@ifundefined{HoLogoBkm@\HOLOGO@Variant{#1}}{%
        \ltx@ifundefined{HoLogo@#1}{?#1?}{#1}%
      }{%
        \csname HoLogoBkm@\HOLOGO@Variant{#1}\endcsname
        \ltx@firstoftwo
      }%
    }%
$ \fi
}
```

\Hologo

```
\def\Hologo#1{%
$ \ifincsname
$   \ltx@ifundefined{HoLogoCs@\HOLOGO@Variant{#1}}{%
$     #1%
$   }{%
$     \csname HoLogoCs@\HOLOGO@Variant{#1}\endcsname\ltx@secondoftwo
$   }%
$ \else
    \HOLOGO@IfExists\texorpdfstring\texorpdfstring\ltx@firstoftwo
    {%
      \HologoRobust{#1}%
    }{%
      \ltx@ifundefined{HoLogoBkm@\HOLOGO@Variant{#1}}{%
        \ltx@ifundefined{HoLogo@#1}{?#1?}{#1}%
      }{%
        \csname HoLogoBkm@\HOLOGO@Variant{#1}\endcsname
        \ltx@secondoftwo
      }%
    }%
$ \fi
}
```

\hologoVariant

```
\def\hologoVariant#1#2{%
  \ifx\relax#2\relax
    \hologo{#1}%
  \else
$   \ifincsname
$     \ltx@ifundefined{HoLogoCs@#1@#2}{%
$       #1%
$     }{%
$       \csname HoLogoCs@#1@#2\endcsname\ltx@firstoftwo
$     }%
$   \else
      \HOLOGO@IfExists\texorpdfstring\texorpdfstring\ltx@firstoftwo
      {%
        \hologoVariantRobust{#1}{#2}%
      }{%
        \ltx@ifundefined{HoLogoBkm@#1@#2}{%
          \ltx@ifundefined{HoLogo@#1}{?#1?}{#1}%
```

```
        }{%
          \csname HoLogoBkm@#1@#2\endcsname
          \ltx@firstoftwo
        }%
      }%
$   \fi
  \fi
}
```

\HologoVariant

```
\def\HologoVariant#1#2{%
  \ifx\relax#2\relax
    \Hologo{#1}%
  \else
$   \ifincsname
$     \ltx@ifundefined{HoLogoCs@#1@#2}{%
$       #1%
$     }{%
$       \csname HoLogoCs@#1@#2\endcsname\ltx@secondoftwo
$     }%
$   \else
      \HOLOGO@IfExists\texorpdfstring\texorpdfstring\ltx@firstoftwo
      {%
        \HologoVariantRobust{#1}{#2}%
      }{%
        \ltx@ifundefined{HoLogoBkm@#1@#2}{%
          \ltx@ifundefined{HoLogo@#1}{?#1?}{#1}%
        }{%
          \csname HoLogoBkm@#1@#2\endcsname
          \ltx@secondoftwo
        }%
      }%
$   \fi
  \fi
}

\catcode`\$=3 %
```

2.7.2 \hologoRobust and friends

\hologoRobust

```
\ltx@IfUndefined{protected}{%
  \ltx@IfUndefined{DeclareRobustCommand}{%
    \def\hologoRobust#1%
  }{%
    \DeclareRobustCommand*\hologoRobust[1]%
  }%
}{%
  \protected\def\hologoRobust#1%
}%
{%
  \edef\HOLOGO@name{#1}%
  \ltx@IfUndefined{HoLogo@\HOLOGO@Variant\HOLOGO@name}{%
    \@PackageError{hologo}{%
      Unknown logo `\HOLOGO@name'%
    }\@ehc
    ?\HOLOGO@name?%
  }{%
```

```
    \ltx@IfUndefined{ver@tex4ht.sty}{%
      \HoLogoFont@font\HOLOGO@name{general}{%
        \csname HoLogo@\HOLOGO@Variant\HOLOGO@name\endcsname
        \ltx@firstoftwo
      }%
    }{%
      \ltx@IfUndefined{HoLogoHtml@\HOLOGO@Variant\HOLOGO@name}{%
        \HOLOGO@name
      }{%
        \csname HoLogoHtml@\HOLOGO@Variant\HOLOGO@name\endcsname
        \ltx@firstoftwo
      }%
    }%
  }%
}
```

\HologoRobust

```
\ltx@IfUndefined{protected}{%
  \ltx@IfUndefined{DeclareRobustCommand}{%
    \def\HologoRobust#1%
  }{%
    \DeclareRobustCommand*\HologoRobust[1]%
  }%
}{%
  \protected\def\HologoRobust#1%
}%
{%
  \edef\HOLOGO@name{#1}%
  \ltx@IfUndefined{HoLogo@\HOLOGO@Variant\HOLOGO@name}{%
    \@PackageError{hologo}{%
      Unknown logo `\HOLOGO@name'%
    }\@ehc
    ?\HOLOGO@name?%
  }{%
    \ltx@IfUndefined{ver@tex4ht.sty}{%
      \HoLogoFont@font\HOLOGO@name{general}{%
        \csname HoLogo@\HOLOGO@Variant\HOLOGO@name\endcsname
        \ltx@secondoftwo
      }%
    }{%
      \ltx@IfUndefined{HoLogoHtml@\HOLOGO@Variant\HOLOGO@name}{%
        \expandafter\HOLOGO@Uppercase\HOLOGO@name
      }{%
        \csname HoLogoHtml@\HOLOGO@Variant\HOLOGO@name\endcsname
        \ltx@secondoftwo
      }%
    }%
  }%
}
```

\hologoVariantRobust

```
\ltx@IfUndefined{protected}{%
  \ltx@IfUndefined{DeclareRobustCommand}{%
    \def\hologoVariantRobust#1#2%
  }{%
    \DeclareRobustCommand*\hologoVariantRobust[2]%
  }%
}{%
```

```
    \protected\def\hologoVariantRobust#1#2%
}%
{%
    \begingroup
      \hologoLogoSetup{#1}{variant={#2}}%
      \hologoRobust{#1}%
    \endgroup
}
```

\HologoVariantRobust

```
\ltx@IfUndefined{protected}{%
  \ltx@IfUndefined{DeclareRobustCommand}{%
    \def\HologoVariantRobust#1#2%
  }{%
    \DeclareRobustCommand*\HologoVariantRobust[2]%
  }%
}{%
  \protected\def\HologoVariantRobust#1#2%
}%
{%
  \begingroup
    \hologoLogoSetup{#1}{variant={#2}}%
    \HologoRobust{#1}%
  \endgroup
}
```

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

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

2.8 Helpers

\HOLOGO@Uppercase Macro \HOLOGO@Uppercase is restricted to \uppercase, because plain TEX or iniTEX do not provide \MakeUppercase.

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

\HOLOGO@PdfdocUnicode

```
\def\HOLOGO@PdfdocUnicode{%
  \ifx\ifHy@unicode\iftrue
    \expandafter\ltx@secondoftwo
  \else
    \expandafter\ltx@firstoftwo
  \fi
}
```

\HOLOGO@Math

```
\def\HOLOGO@MathSetup{%
  \mathsurroundOpt\relax
  \HOLOGO@IfExists\f@series{%
    \if b\expandafter\ltx@car\f@series x\@nil
      \csname boldmath\endcsname
    \fi
  }{}%
}
```

\HOLOGO@TempDimen

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

\HOLOGO@NegativeKerning

```
\def\HOLOGO@NegativeKerning#1{%
  \begingroup
    \HOLOGO@TempDimen=0pt\relax
    \comma@parse@normalized{#1}{%
      \ifdim\HOLOGO@TempDimen=0pt %
        \expandafter\HOLOGO@@NegativeKerning\comma@entry
      \fi
      \ltx@gobble
    }%
    \ifdim\HOLOGO@TempDimen<0pt %
      \kern\HOLOGO@TempDimen
    \fi
  \endgroup
}
```

\HOLOGO@@NegativeKerning

```
\def\HOLOGO@@NegativeKerning#1#2{%
  \setbox\ltx@zero\hbox{#1#2}%
  \HOLOGO@TempDimen=\wd\ltx@zero
  \setbox\ltx@zero\hbox{#1\kern0pt#2}%
  \advance\HOLOGO@TempDimen by -\wd\ltx@zero
}
```

\HOLOGO@SpaceFactor

```
\def\HOLOGO@SpaceFactor{%
  \spacefactor1000 %
}
```

\HOLOGO@Span

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

2.8.1 Text subscript

\HOLOGO@SubScript

```
\def\HOLOGO@SubScript#1{%
  \ltx@IfUndefined{textsubscript}{%
    \ltx@IfUndefined{text}{%
      \ltx@mbox{%
        \mathsurround=0pt\relax
        $%
          _{%
            \ltx@IfUndefined{sf@size}{%
              \mathrm{#1}%
            }{%
              \mbox{%
                \fontsize\sf@size{0pt}\selectfont
                #1%
              }%
            }%
          }%
        $%
      }%
```

```
    }{%
      \ltx@mbox{%
        \mathsurround=0pt\relax
        $_{\text{#1}}$%
      }%
    }%
  }{%
    \textsubscript{#1}%
  }%
}
```

2.9 TEX and friends

2.9.1 TEX

\HoLogo@TeX Source: LATEX kernel.

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

\HoLogoHtml@TeX

```
\def\HoLogoHtml@TeX#1{%
  \HoLogoCss@TeX
  \HOLOGO@Span{TeX}{%
    T%
    \HOLOGO@Span{e}{%
      E%
    }%
    X%
  }%
}
```

\HoLogoCss@TeX

```
\def\HoLogoCss@TeX{%
  \Css{%
    span.HoLogo-TeX span.HoLogo-e{%
      position:relative;%
      top:.5ex;%
      margin-left:-.1667em;%
      margin-right:-.125em;%
    }%
  }%
  \Css{%
    a span.HoLogo-TeX span.HoLogo-e{%
      text-decoration:none;%
    }%
  }%
  \global\let\HoLogoCss@TeX\relax
}
```

2.9.2 plain TEX

\HoLogo@plainTeX@space Source: "The TEXbook"

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

```
\HoLogoCs@plainTeX@space
\def\HoLogoCs@plainTeX@space#1{#1{p}{P}lain TeX}%
\HoLogoBkm@plainTeX@space
\def\HoLogoBkm@plainTeX@space#1{%
  #1{p}{P}lain \hologo{TeX}%
}
\HoLogoHtml@plainTeX@space
\def\HoLogoHtml@plainTeX@space#1{%
  #1{p}{P}lain \hologo{TeX}%
}
\HoLogo@plainTeX@hyphen
\def\HoLogo@plainTeX@hyphen#1{%
  \HOLOGO@mbox{#1{p}{P}lain}\HOLOGO@hyphen\hologo{TeX}%
}
\HoLogoCs@plainTeX@hyphen
\def\HoLogoCs@plainTeX@hyphen#1{#1{p}{P}lain-TeX}
\HoLogoBkm@plainTeX@hyphen
\def\HoLogoBkm@plainTeX@hyphen#1{%
  #1{p}{P}lain-\hologo{TeX}%
}
\HoLogoHtml@plainTeX@hyphen
\def\HoLogoHtml@plainTeX@hyphen#1{%
  #1{p}{P}lain-\hologo{TeX}%
}
\HoLogo@plainTeX@runtogether
\def\HoLogo@plainTeX@runtogether#1{%
  \HOLOGO@mbox{#1{p}{P}lain\hologo{TeX}}%
}
\HoLogoCs@plainTeX@runtogether
\def\HoLogoCs@plainTeX@runtogether#1{#1{p}{P}lainTeX}
\HoLogoBkm@plainTeX@runtogether
\def\HoLogoBkm@plainTeX@runtogether#1{%
  #1{p}{P}lain\hologo{TeX}%
}
\HoLogoHtml@plainTeX@runtogether
\def\HoLogoHtml@plainTeX@runtogether#1{%
  #1{p}{P}lain\hologo{TeX}%
}
\HoLogo@plainTeX
\def\HoLogo@plainTeX{\HoLogo@plainTeX@space}
\HoLogoCs@plainTeX
\def\HoLogoCs@plainTeX{\HoLogoCs@plainTeX@space}
\HoLogoBkm@plainTeX
\def\HoLogoBkm@plainTeX{\HoLogoBkm@plainTeX@space}
\HoLogoHtml@plainTeX
\def\HoLogoHtml@plainTeX{\HoLogoHtml@plainTeX@space}
```

2.9.3 LaTeX

Source: LaTeX 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

```
\def\HoLogo@La#1{%
  L%
  \kern-.36em%
  \begingroup
    \setbox\ltx@zero\hbox{T}%
    \vbox to\ht\ltx@zero{%
      \hbox{%
        \ltx@ifundefined{check@mathfonts}{%
          \csname sevenrm\endcsname
        }{%
          \check@mathfonts
          \fontsize\sf@size{0pt}%
          \math@fontsfalse\selectfont
        }%
        A%
      }%
      \vss
    }%
  \endgroup
}
```

\HoLogo@LaTeX Source: LaTeX kernel.

```
\def\HoLogo@LaTeX#1{%
  \hologo{La}%
  \kern-.15em%
  \hologo{TeX}%
}
```

\HoLogoHtml@LaTeX

```
\def\HoLogoHtml@LaTeX#1{%
  \HoLogoCss@LaTeX
  \HOLOGO@Span{LaTeX}{%
    L%
    \HOLOGO@Span{a}{%
```

```
      A%
    }%
    \hologo{TeX}%
  }%
}
```

\HoLogoCss@LaTeX

```
\def\HoLogoCss@LaTeX{%
  \Css{%
    span.HoLogo-LaTeX span.HoLogo-a{%
      position:relative;%
      top:-.5ex;%
      margin-left:-.36em;%
      margin-right:-.15em;%
      font-size:85\%;%
    }%
  }%
  \global\let\HoLogoCss@LaTeX\relax
}
```

2.9.4 (LA)TEX

\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
}
```

```
\def\HoLogo@LaTeXTeX#1{%
  (%
  \kern-.15em%
  \hologo{La}%
  \kern-.2em%
  )%
  \kern-.15em%
  \hologo{TeX}%
}
```

\HoLogoBkm@LaTeXTeX

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

\HoLogo@(La)TeX

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

\HoLogoBkm@(La)TeX

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

\HoLogoHtml@LaTeXTeX

```
\def\HoLogoHtml@LaTeXTeX#1{%
  \HoLogoCss@LaTeXTeX
  \HOLOGO@Span{LaTeXTeX}{%
    (%
    \HOLOGO@Span{L}{L}%
    \HOLOGO@Span{a}{A}%
    \HOLOGO@Span{ParenRight}{)}%
    \hologo{TeX}%
  }%
}
```

\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.

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

\HoLogoCss@LaTeXTeX

```
\def\HoLogoCss@LaTeXTeX{%
  \Css{%
    span.HoLogo-LaTeXTeX span.HoLogo-L{%
      margin-left:-.1em;%
    }%
  }%
  \Css{%
    span.HoLogo-LaTeXTeX span.HoLogo-a{%
      position:relative;%
      top:-.5ex;%
      margin-left:-.36em;%
      margin-right:-.1em;%
      font-size:85\%;%
    }%
  }%
  \Css{%
    span.HoLogo-LaTeXTeX span.HoLogo-ParenRight{%
      margin-right:-.15em;%
    }%
  }%
  \global\let\HoLogoCss@LaTeXTeX\relax
}
```

2.9.5 LaTeX 2ε

\HoLogo@LaTeXe Source: LaTeX kernel

```
\def\HoLogo@LaTeXe#1{%
  \hologo{LaTeX}%
```

```
    \kern.15em%
    \hbox{%
      \HOLOGO@MathSetup
      2%
      $_{\textstyle\varepsilon}$%
    }%
}
```

\HoLogoCs@LaTeXe

```
\ifnum64=`\^^^^0040\relax % test for big chars of LuaTeX/XeTeX
  \catcode`\$=9 %
  \catcode`\&=14 %
\else
  \catcode`\$=14 %
  \catcode`\&=9 %
\fi
\def\HoLogoCs@LaTeXe#1{%
  LaTeX2%
$ \string ^^^^0395%
& e%
}%
\catcode`\$=3 %
\catcode`\&=4 %
```

\HoLogoBkm@LaTeXe

```
\def\HoLogoBkm@LaTeXe#1{%
  \hologo{LaTeX}%
  2%
  \HOLOGO@PdfdocUnicode{e}{\83\265}%\textepsilon
}
```

\HoLogoHtml@LaTeXe

```
\def\HoLogoHtml@LaTeXe#1{%
  \HoLogoCss@LaTeXe
  \HOLOGO@Span{LaTeX2e}{%
    \hologo{LaTeX}%
    \HOLOGO@Span{2}{2}%
    \HOLOGO@Span{e}{%
      \HOLOGO@MathSetup
      \ensuremath{\textstyle\varepsilon}%
    }%
  }%
}
```

\HoLogoCss@LaTeXe

```
\def\HoLogoCss@LaTeXe{%
  \Css{%
    span.HoLogo-LaTeX2e span.HoLogo-2{%
      padding-left:.15em;%
    }%
  }%
  \Css{%
    span.HoLogo-LaTeX2e span.HoLogo-e{%
      position:relative;%
      top:.35ex;%
      text-decoration:none;%
    }%
  }%
```

```
  \global\let\HoLogoCss@LaTeXe\relax
}
```

\HoLogo@LaTeX2e

```
\expandafter
\let\csname HoLogo@LaTeX2e\endcsname\HoLogo@LaTeXe
```

\HoLogoCs@LaTeX2e

```
\expandafter
\let\csname HoLogoCs@LaTeX2e\endcsname\HoLogoCs@LaTeXe
```

\HoLogoBkm@LaTeX2e

```
\expandafter
\let\csname HoLogoBkm@LaTeX2e\endcsname\HoLogoBkm@LaTeXe
```

\HoLogoHtml@LaTeX2e

```
\expandafter
\let\csname HoLogoHtml@LaTeX2e\endcsname\HoLogoHtml@LaTeXe
```

2.9.6 LaTeX3

\HoLogo@LaTeX3 Source: LaTeX kernel

```
\expandafter\def\csname HoLogo@LaTeX3\endcsname#1{%
  \hologo{LaTeX}%
  3%
}
```

\HoLogoBkm@LaTeX3

```
\expandafter\def\csname HoLogoBkm@LaTeX3\endcsname#1{%
  \hologo{LaTeX}%
  3%
}
```

\HoLogoHtml@LaTeX3

```
\expandafter
\let\csname HoLogoHtml@LaTeX3\expandafter\endcsname
\csname HoLogo@LaTeX3\endcsname
```

2.9.7 LaTeXml

\HoLogo@LaTeXML

```
\def\HoLogo@LaTeXML#1{%
  \HOLOGO@mbox{%
    \hologo{La}%
    \kern-.15em%
    T%
    \kern-.1667em%
    \lower.5ex\hbox{E}%
    \kern-.125em%
    \HoLogoFont@font{LaTeXML}{sc}{xml}%
  }%
}
```

\HoLogoHtml@pdfLaTeX

```
\def\HoLogoHtml@LaTeXML#1{%
  \HOLOGO@Span{LaTeXML}{%
    \HoLogoCss@LaTeX
```

```
    \HoLogoCss@TeX
    \HOLOGO@Span{LaTeX}{%
      L%
      \HOLOGO@Span{a}{%
        A%
      }%
    }%
    \HOLOGO@Span{TeX}{%
      T%
      \HOLOGO@Span{e}{%
        E%
      }%
    }%
    \HCode{<span style="font-variant: small-caps;">}%
    xml%
    \HCode{</span>}%
  }%
}
```

2.9.8 ε-TEX

\HoLogo@eTeX Source: package etex

```
\def\HoLogo@eTeX#1{%
  \ltx@mbox{%
    \HOLOGO@MathSetup
    $\varepsilon$%
    -%
    \HOLOGO@NegativeKerning{-T,T-,To}%
    \hologo{TeX}%
  }%
}
```

\HoLogoCs@eTeX

```
\ifnum64=‘\^^^^0040\relax % test for big chars of LuaTeX/XeTeX
  \catcode‘\$=9 %
  \catcode‘\&=14 %
\else
  \catcode‘\$=14 %
  \catcode‘\&=9 %
\fi
\def\HoLogoCs@eTeX#1{%
$ #1{\string ^^^^0395}{\string ^^^^03b5}%
& #1{e}{E}%
  TeX%
}%
\catcode‘\$=3 %
\catcode‘\&=4 %
```

\HoLogoBkm@eTeX

```
\def\HoLogoBkm@eTeX#1{%
  \HOLOGO@PdfdocUnicode{#1{e}{E}}{\83\265}%\textepsilon
  -%
  \hologo{TeX}%
}
```

\HoLogoHtml@eTeX

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

```
    \HOLOGO@MathSetup
    $\varepsilon$%
    -%
    \hologo{TeX}%
  }%
}
```

2.9.9 iniTEX

\HoLogo@iniTeX

```
\def\HoLogo@iniTeX#1{%
  \HOLOGO@mbox{%
    #1{i}{I}ni\hologo{TeX}%
  }%
}
```

\HoLogoCs@iniTeX

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

\HoLogoBkm@iniTeX

```
\def\HoLogoBkm@iniTeX#1{%
  #1{i}{I}ni\hologo{TeX}%
}
```

\HoLogoHtml@iniTeX

```
\let\HoLogoHtml@iniTeX\HoLogo@iniTeX
```

2.9.10 virTEX

\HoLogo@virTeX

```
\def\HoLogo@virTeX#1{%
  \HOLOGO@mbox{%
    #1{v}{V}ir\hologo{TeX}%
  }%
}
```

\HoLogoCs@virTeX

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

\HoLogoBkm@virTeX

```
\def\HoLogoBkm@virTeX#1{%
  #1{v}{V}ir\hologo{TeX}%
}
```

\HoLogoHtml@virTeX

```
\let\HoLogoHtml@virTeX\HoLogo@virTeX
```

2.9.11 SliTEX

Definitions of the three variants.

\HoLogo@SLiTeX@lift

```
\def\HoLogo@SLiTeX@lift#1{%
  \HoLogoFont@font{SliTeX}{rm}{%
    S%
    \kern-.06em%
    L%
```

```
    \kern-.18em%
    \raise.32ex\hbox{\HoLogoFont@font{SliTeX}{sc}{i}}%
    \HOLOGO@discretionary
    \kern-.06em%
    \hologo{TeX}%
  }%
}
```

\HoLogoBkm@SLiTeX@lift

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

\HoLogoHtml@SLiTeX@lift

```
\def\HoLogoHtml@SLiTeX@lift#1{%
  \HoLogoCss@SLiTeX@lift
  \HOLOGO@Span{SLiTeX-lift}{%
    \HoLogoFont@font{SliTeX}{rm}{%
      S%
      \HOLOGO@Span{L}{L}%
      \HOLOGO@Span{i}{i}%
      \hologo{TeX}%
    }%
  }%
}
```

\HoLogoCss@SLiTeX@lift

```
\def\HoLogoCss@SLiTeX@lift{%
  \Css{%
    span.HoLogo-SLiTeX-lift span.HoLogo-L{%
      margin-left:-.06em;%
      margin-right:-.18em;%
    }%
  }%
  \Css{%
    span.HoLogo-SLiTeX-lift span.HoLogo-i{%
      position:relative;%
      top:-.32ex;%
      margin-right:-.06em;%
      font-variant:small-caps;%
    }%
  }%
  \global\let\HoLogoCss@SLiTeX@lift\relax
}
```

\HoLogo@SliTeX@simple

```
\def\HoLogo@SliTeX@simple#1{%
  \HoLogoFont@font{SliTeX}{rm}{%
    \ltx@mbox{%
      \HoLogoFont@font{SliTeX}{sc}{Sli}%
    }%
    \HOLOGO@discretionary
    \hologo{TeX}%
  }%
}
```

\HoLogoBkm@SliTeX@simple

```
\def\HoLogoBkm@SliTeX@simple#1{SliTeX}
```

\HoLogoHtml@SliTeX@simple

```
\let\HoLogoHtml@SliTeX@simple\HoLogo@SliTeX@simple
```

\HoLogo@SliTeX@narrow

```
\def\HoLogo@SliTeX@narrow#1{%
  \HoLogoFont@font{SliTeX}{rm}{%
    \ltx@mbox{%
      S%
      \kern-.06em%
      \HoLogoFont@font{SliTeX}{sc}{%
        l%
        \kern-.035em%
        i%
      }%
    }%
    \HOLOGO@discretionary
    \kern-.06em%
    \hologo{TeX}%
  }%
}
```

\HoLogoBkm@SliTeX@narrow

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

\HoLogoHtml@SliTeX@narrow

```
\def\HoLogoHtml@SliTeX@narrow#1{%
  \HoLogoCss@SliTeX@narrow
  \HOLOGO@Span{SliTeX-narrow}{%
    \HoLogoFont@font{SliTeX}{rm}{%
      S%
        \HOLOGO@Span{l}{l}%
        \HOLOGO@Span{i}{i}%
      \hologo{TeX}%
    }%
  }%
}
```

\HoLogoCss@SliTeX@narrow

```
\def\HoLogoCss@SliTeX@narrow{%
  \Css{%
    span.HoLogo-SliTeX-narrow span.HoLogo-l{%
      margin-left:-.06em;%
      margin-right:-.035em;%
      font-variant:small-caps;%
    }%
  }%
  \Css{%
    span.HoLogo-SliTeX-narrow span.HoLogo-i{%
      margin-right:-.06em;%
      font-variant:small-caps;%
    }%
  }%
  \global\let\HoLogoCss@SliTeX@narrow\relax
}
```

Macro set completion.

\HoLogo@SLiTeX@simple

```
1382 \def\HoLogo@SLiTeX@simple{\HoLogo@SliTeX@simple}
```

\HoLogoBkm@SLiTeX@simple

```
1383 \def\HoLogoBkm@SLiTeX@simple{\HoLogoBkm@SliTeX@simple}
```

\HoLogoHtml@SLiTeX@simple

```
1384 \def\HoLogoHtml@SLiTeX@simple{\HoLogoHtml@SliTeX@simple}
```

\HoLogo@SLiTeX@narrow

```
1385 \def\HoLogo@SLiTeX@narrow{\HoLogo@SliTeX@narrow}
```

\HoLogoBkm@SLiTeX@narrow

```
1386 \def\HoLogoBkm@SLiTeX@narrow{\HoLogoBkm@SliTeX@narrow}
```

\HoLogoHtml@SLiTeX@narrow

```
1387 \def\HoLogoHtml@SLiTeX@narrow{\HoLogoHtml@SliTeX@narrow}
```

\HoLogo@SliTeX@lift

```
1388 \def\HoLogo@SliTeX@lift{\HoLogo@SLiTeX@lift}
```

\HoLogoBkm@SliTeX@lift

```
1389 \def\HoLogoBkm@SliTeX@lift{\HoLogoBkm@SLiTeX@lift}
```

\HoLogoHtml@SliTeX@lift

```
1390 \def\HoLogoHtml@SliTeX@lift{\HoLogoHtml@SLiTeX@lift}
```

Defaults.

\HoLogo@SLiTeX

```
1391 \def\HoLogo@SLiTeX{\HoLogo@SLiTeX@lift}
```

\HoLogoBkm@SLiTeX

```
1392 \def\HoLogoBkm@SLiTeX{\HoLogoBkm@SLiTeX@lift}
```

\HoLogoHtml@SLiTeX

```
1393 \def\HoLogoHtml@SLiTeX{\HoLogoHtml@SLiTeX@lift}
```

\HoLogo@SliTeX

```
1394 \def\HoLogo@SliTeX{\HoLogo@SliTeX@narrow}
```

\HoLogoBkm@SliTeX

```
1395 \def\HoLogoBkm@SliTeX{\HoLogoBkm@SliTeX@narrow}
```

\HoLogoHtml@SliTeX

```
1396 \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.

```
\def\HoLogo@LuaTeX#1{%
  \HOLOGO@mbox{%
    Lua%
    \HOLOGO@NegativeKerning{aT,oT,To}%
    \hologo{TeX}%
  }%
}
```

\HoLogoHtml@LuaTeX

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

2.9.13 LuaLaTeX

\HoLogo@LuaLaTeX

```
\def\HoLogo@LuaLaTeX#1{%
  \HOLOGO@mbox{%
    Lua%
    \hologo{LaTeX}%
  }%
}
```

\HoLogoHtml@LuaLaTeX

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

2.9.14 XeTeX, XeLaTeX

\HOLOGO@IfCharExists

```
\ifluatex
  \ifnum\luatexversion<36 %
  \else
    \def\HOLOGO@IfCharExists#1{%
      \ifnum
        \directlua{%
           if luaotfload and luaotfload.aux then
             if luaotfload.aux.font_has_glyph(%
                    font.current(), \number#1) then %
       tex.print("1") %
     end %
   elseif font and font.fonts and font.current then %
            local f = font.fonts[font.current()]%
            if f.characters and f.characters[\number#1] then %
              tex.print("1")%
            end %
          end%
        }0=\ltx@zero
        \expandafter\ltx@secondoftwo
      \else
        \expandafter\ltx@firstoftwo
      \fi
    }%
  \fi
\fi
\ltx@IfUndefined{HOLOGO@IfCharExists}{%
```

```
\def\HOLOGO@@IfCharExists#1{%
  \begingroup
    \tracinglostchars=\ltx@zero
    \setbox\ltx@zero=\hbox{%
      \kern7sp\char#1\relax
      \ifnum\lastkern>\ltx@zero
        \expandafter\aftergroup\csname iffalse\endcsname
      \else
        \expandafter\aftergroup\csname iftrue\endcsname
      \fi
    }%
    % \if{true|false} from \aftergroup
    \endgroup
    \expandafter\ltx@firstoftwo
  \else
    \endgroup
    \expandafter\ltx@secondoftwo
  \fi
}%
\ifxetex
  \ltx@IfUndefined{XeTeXfonttype}{}{%
    \ltx@IfUndefined{XeTeXcharglyph}{}{%
      \def\HOLOGO@IfCharExists#1{%
        \ifnum\XeTeXfonttype\font>\ltx@zero
          \expandafter\ltx@firstofthree
        \else
          \expandafter\ltx@gobble
        \fi
        {%
          \ifnum\XeTeXcharglyph#1>\ltx@zero
            \expandafter\ltx@firstoftwo
          \else
            \expandafter\ltx@secondoftwo
          \fi
        }%
        \HOLOGO@@IfCharExists{#1}%
      }%
    }%
  }%
\fi
}{}
\ltx@ifundefined{HOLOGO@IfCharExists}{%
  \ifnum64=`\^^^^0040\relax % test for big chars of LuaTeX/XeTeX
    \let\HOLOGO@IfCharExists\HOLOGO@@IfCharExists
  \else
    \def\HOLOGO@IfCharExists#1{%
      \ifnum#1>255 %
        \expandafter\ltx@fourthoffour
      \fi
      \HOLOGO@@IfCharExists{#1}%
    }%
  \fi
}{}
```

`\HoLogo@Xe` Source: package dtklogos

```
\def\HoLogo@Xe#1{%
  X%
  \kern-.1em\relax
```

```
\HOLOGO@IfCharExists{"018E}{%
  \lower.5ex\hbox{\char"018E}%
}{%
  \chardef\HOLOGO@choice=\ltx@zero
  \ifdim\fontdimen\ltx@one\font>0pt %
    \ltx@IfUndefined{rotatebox}{%
      \ltx@IfUndefined{pgftext}{%
        \ltx@IfUndefined{psscalebox}{%
          \ltx@IfUndefined{HOLOGO@ScaleBox@\hologoDriver}{%
          }{%
            \chardef\HOLOGO@choice=4 %
          }%
        }{%
          \chardef\HOLOGO@choice=3 %
        }%
      }{%
        \chardef\HOLOGO@choice=2 %
      }%
    }{%
      \chardef\HOLOGO@choice=1 %
    }%
    \ifcase\HOLOGO@choice
      \HOLOGO@WarningUnsupportedDriver{Xe}%
      e%
    \or % 1: \rotatebox
      \begingroup
        \setbox\ltx@zero\hbox{\rotatebox{180}{E}}%
        \ltx@LocDimenA=\dp\ltx@zero
        \advance\ltx@LocDimenA by -.5ex\relax
        \raise\ltx@LocDimenA\box\ltx@zero
      \endgroup
    \or % 2: \pgftext
      \lower.5ex\hbox{%
        \pgfpicture
          \pgftext[rotate=180]{E}%
        \endpgfpicture
      }%
    \or % 3: \psscalebox
      \begingroup
        \setbox\ltx@zero\hbox{\psscalebox{-1 -1}{E}}%
        \ltx@LocDimenA=\dp\ltx@zero
        \advance\ltx@LocDimenA by -.5ex\relax
        \raise\ltx@LocDimenA\box\ltx@zero
      \endgroup
    \or % 4: \HOLOGO@PointReflectBox
      \lower.5ex\hbox{\HOLOGO@PointReflectBox{E}}%
    \else
      \@PackageError{hologo}{Internal error (choice/it}\@ehc
    \fi
  \else
    \ltx@IfUndefined{reflectbox}{%
      \ltx@IfUndefined{pgftext}{%
        \ltx@IfUndefined{psscalebox}{%
          \ltx@IfUndefined{HOLOGO@ScaleBox@\hologoDriver}{%
          }{%
            \chardef\HOLOGO@choice=4 %
          }%
        }{%
```

```
            \chardef\HOLOGO@choice=3 %
          }%
        }{%
          \chardef\HOLOGO@choice=2 %
        }%
      }{%
        \chardef\HOLOGO@choice=1 %
      }%
      \ifcase\HOLOGO@choice
        \HOLOGO@WarningUnsupportedDriver{Xe}%
        e%
      \or % 1: reflectbox
        \lower.5ex\hbox{%
          \reflectbox{E}%
        }%
      \or % 2: \pgftext
        \lower.5ex\hbox{%
          \pgfpicture
            \pgftransformxscale{-1}%
            \pgftext{E}%
          \endpgfpicture
        }%
      \or % 3: \psscalebox
        \lower.5ex\hbox{%
          \psscalebox{-1 1}{E}%
        }%
      \or % 4: \HOLOGO@Reflectbox
        \lower.5ex\hbox{%
          \HOLOGO@ReflectBox{E}%
        }%
      \else
        \@PackageError{hologo}{Internal error (choice/up)}\@ehc
      \fi
    \fi
  }%
}
```

\HoLogoHtml@Xe

```
\def\HoLogoHtml@Xe#1{%
  \HoLogoCss@Xe
  \HOLOGO@Span{Xe}{%
    X%
    \HOLOGO@Span{e}{%
      \HCode{&\ltx@hashchar x018e;}%
    }%
  }%
}
```

\HoLogoCss@Xe

```
\def\HoLogoCss@Xe{%
  \Css{%
    span.HoLogo-Xe span.HoLogo-e{%
      position:relative;%
      top:.5ex;%
      left-margin:-.1em;%
    }%
  }%
  \global\let\HoLogoCss@Xe\relax
```

```
}

\HoLogo@XeTeX
\def\HoLogo@XeTeX#1{%
  \hologo{Xe}%
  \kern-.15em\relax
  \hologo{TeX}%
}

\HoLogoHtml@XeTeX
\def\HoLogoHtml@XeTeX#1{%
  \HoLogoCss@XeTeX
  \HOLOGO@Span{XeTeX}{%
    \hologo{Xe}%
    \hologo{TeX}%
  }%
}

\HoLogoCss@XeTeX
\def\HoLogoCss@XeTeX{%
  \Css{%
    span.HoLogo-XeTeX span.HoLogo-TeX{%
      margin-left:-.15em;%
    }%
  }%
  \global\let\HoLogoCss@XeTeX\relax
}

\HoLogo@XeLaTeX
\def\HoLogo@XeLaTeX#1{%
  \hologo{Xe}%
  \kern-.13em%
  \hologo{LaTeX}%
}

\HoLogoHtml@XeLaTeX
\def\HoLogoHtml@XeLaTeX#1{%
  \HoLogoCss@XeLaTeX
  \HOLOGO@Span{XeLaTeX}{%
    \hologo{Xe}%
    \hologo{LaTeX}%
  }%
}

\HoLogoCss@XeLaTeX
\def\HoLogoCss@XeLaTeX{%
  \Css{%
    span.HoLogo-XeLaTeX span.HoLogo-Xe{%
      margin-right:-.13em;%
    }%
  }%
  \global\let\HoLogoCss@XeLaTeX\relax
}
```

2.9.15 pdfTeX, pdfLaTeX

\HoLogo@pdfTeX

```
\def\HoLogo@pdfTeX#1{%
  \HOLOGO@mbox{%
    #1{p}{P}df\hologo{TeX}%
  }%
}
```

\HoLogoCs@pdfTeX

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

\HoLogoBkm@pdfTeX

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

\HoLogoHtml@pdfTeX

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

\HoLogo@pdfLaTeX

```
\def\HoLogo@pdfLaTeX#1{%
  \HOLOGO@mbox{%
    #1{p}{P}df\hologo{LaTeX}%
  }%
}
```

\HoLogoCs@pdfLaTeX

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

\HoLogoBkm@pdfLaTeX

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

\HoLogoHtml@pdfLaTeX

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

2.9.16 VTeX

\HoLogo@VTeX

```
\def\HoLogo@VTeX#1{%
  \HOLOGO@mbox{%
    V\hologo{TeX}%
  }%
}
```

\HoLogoHtml@VTeX

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

2.9.17 $\mathcal{A}_{\mathcal{M}}\mathcal{S}$, ...

Source: class amsdtx

\HoLogo@AmS

```
\def\HoLogo@AmS#1{%
  \HoLogoFont@font{AmS}{sy}{%
    A%
    \kern-.1667em%
    \lower.5ex\hbox{M}%
    \kern-.125em%
    S%
  }%
}
```

\HoLogoBkm@AmS

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

\HoLogoHtml@AmS

```
\def\HoLogoHtml@AmS#1{%
  \HoLogoCss@AmS
%  \HoLogoFont@font{AmS}{sy}{%
    \HOLOGO@Span{AmS}{%
      A%
      \HOLOGO@Span{M}{M}%
      S%
    }%
%   }%
}
```

\HoLogoCss@AmS

```
\def\HoLogoCss@AmS{%
  \Css{%
    span.HoLogo-AmS span.HoLogo-M{%
      position:relative;%
      top:.5ex;%
      margin-left:-.1667em;%
      margin-right:-.125em;%
      text-decoration:none;%
    }%
  }%
  \global\let\HoLogoCss@AmS\relax
}
```

\HoLogo@AmSTeX

```
\def\HoLogo@AmSTeX#1{%
  \hologo{AmS}%
  \HOLOGO@hyphen
  \hologo{TeX}%
}
```

\HoLogoBkm@AmSTeX

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

\HoLogoHtml@AmSTeX

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

\HoLogo@AmSLaTeX

```
\def\HoLogo@AmSLaTeX#1{%
  \hologo{AmS}%
  \HOLOGO@hyphen
  \hologo{LaTeX}%
}
```

\HoLogoBkm@AmSLaTeX

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

\HoLogoHtml@AmSLaTeX

```
\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%
  }%
}
```

```
\def\HoLogo@BibTeX@sc#1{%
  B%
  \kern-.05em%
  \HoLogoFont@font{BibTeX}{sc}{%
    i%
    \kern-.025em%
    b%
  }%
  \HOLOGO@discretionary
  \kern-.08em%
  \hologo{TeX}%
}
```

\HoLogoHtml@BibTeX@sc

```
\def\HoLogoHtml@BibTeX@sc#1{%
  \HoLogoCss@BibTeX@sc
  \HOLOGO@Span{BibTeX-sc}{%
    B%
    \HOLOGO@Span{i}{i}%
    \HOLOGO@Span{b}{b}%
```

```
    \hologo{TeX}%
  }%
}
```

\HoLogoCss@BibTeX@sc

```
\def\HoLogoCss@BibTeX@sc{%
  \Css{%
    span.HoLogo-BibTeX-sc span.HoLogo-i{%
      margin-left:-.05em;%
      margin-right:-.025em;%
      font-variant:small-caps;%
    }%
  }%
  \Css{%
    span.HoLogo-BibTeX-sc span.HoLogo-b{%
      margin-right:-.08em;%
      font-variant:small-caps;%
    }%
  }%
  \global\let\HoLogoCss@BibTeX@sc\relax
}
```

\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
}
```

```
\def\HoLogo@BibTeX@sf#1{%
  B%
  \kern-.05em%
  \HoLogoFont@font{BibTeX}{bibsf}{%
    I%
    \kern-.025em%
    B%
  }%
  \HOLOGO@discretionary
  \kern-.08em%
  \hologo{TeX}%
}
```

\HoLogoHtml@BibTeX@sf

```
\def\HoLogoHtml@BibTeX@sf#1{%
```

```
    \HoLogoCss@BibTeX@sf
    \HOLOGO@Span{BibTeX-sf}{%
      B%
      \HoLogoFont@font{BibTeX}{bibsf}{%
        \HOLOGO@Span{i}{I}%
        B%
      }%
      \hologo{TeX}%
    }%
}
```

\HoLogoCss@BibTeX@sf

```
\def\HoLogoCss@BibTeX@sf{%
  \Css{%
    span.HoLogo-BibTeX-sf span.HoLogo-i{%
      margin-left:-.05em;%
      margin-right:-.025em;%
    }%
  }%
  \Css{%
    span.HoLogo-BibTeX-sf span.HoLogo-TeX{%
      margin-left:-.08em;%
    }%
  }%
  \global\let\HoLogoCss@BibTeX@sf\relax
}
```

\HoLogo@BibTeX

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

\HoLogoHtml@BibTeX

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

2.9.19 BibTeX8

\HoLogo@BibTeX8

```
\expandafter\def\csname HoLogo@BibTeX8\endcsname#1{%
  \hologo{BibTeX}%
  8%
}
```

\HoLogoBkm@BibTeX8

```
\expandafter\def\csname HoLogoBkm@BibTeX8\endcsname#1{%
  \hologo{BibTeX}%
  8%
}
```

\HoLogoHtml@BibTeX8

```
\expandafter
\let\csname HoLogoHtml@BibTeX8\expandafter\endcsname
\csname HoLogo@BibTeX8\endcsname
```

2.9.20 ConTeXt

\HoLogo@ConTeXt@simple

```
\def\HoLogo@ConTeXt@simple#1{%
  \HOLOGO@mbox{Con}%
```

```
    \HOLOGO@discretionary
    \HOLOGO@mbox{\hologo{TeX}t}%
}
```

\HoLogoHtml@ConTeXt@simple

```
\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).

```
\def\HoLogo@ConTeXt@narrow#1{%
    \HOLOGO@mbox{C\kern-.0333emon}%
    \HOLOGO@discretionary
    \kern-.0667em%
    \HOLOGO@mbox{\hologo{TeX}\kern-.0333emt}%
}
```

\HoLogoHtml@ConTeXt@narrow

```
\def\HoLogoHtml@ConTeXt@narrow#1{%
    \HoLogoCss@ConTeXt@narrow
    \HOLOGO@Span{ConTeXt-narrow}{%
      \HOLOGO@Span{C}{C}%
      on%
      \hologo{TeX}%
      t%
    }%
}
```

\HoLogoCss@ConTeXt@narrow

```
\def\HoLogoCss@ConTeXt@narrow{%
    \Css{%
      span.HoLogo-ConTeXt-narrow span.HoLogo-C{%
        margin-left:-.0333em;%
      }%
    }%
    \Css{%
      span.HoLogo-ConTeXt-narrow span.HoLogo-TeX{%
        margin-left:-.0667em;%
        margin-right:-.0333em;%
      }%
    }%
    \global\let\HoLogoCss@ConTeXt@narrow\relax
}
```

\HoLogo@ConTeXt

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

\HoLogoHtml@ConTeXt

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

2.9.21 emTEX

\HoLogo@emTeX

```
\def\HoLogo@emTeX#1{%
    \HOLOGO@mbox{#1{e}{E}m}%
    \HOLOGO@discretionary
    \hologo{TeX}%
}
```

\HoLogoCs@emTeX

```
1848 \def\HoLogoCs@emTeX#1{#1{e}{E}mTeX}%
```

\HoLogoBkm@emTeX

```
1849 \def\HoLogoBkm@emTeX#1{%
1850   #1{e}{E}m\hologo{TeX}%
1851 }
```

\HoLogoHtml@emTeX

```
1852 \let\HoLogoHtml@emTeX\HoLogo@emTeX
```

2.9.22 ε_XTEX

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

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

```
1853 \def\HoLogo@ExTeX#1{%
1854   \HoLogoFont@font{ExTeX}{rm}{%
1855     \ltx@mbox{%
1856       \HOLOGO@MathSetup
1857       $%
1858         \textstyle
1859         \varepsilon_{%
1860           \kern-0.15em%
1861           \HoLogoFont@font{ExTeX}{sy}{X}%
1862         }%
1863       $%
1864     }%
1865     \HOLOGO@discretionary
1866     \kern-.15em%
1867     \hologo{TeX}%
1868   }%
1869 }
```

\HoLogoHtml@ExTeX

```
1870 \def\HoLogoHtml@ExTeX#1{%
1871   \HoLogoCss@ExTeX
1872   \HoLogoFont@font{ExTeX}{rm}{%
1873     \HOLOGO@Span{ExTeX}{%
1874       \ltx@mbox{%
1875         \HOLOGO@MathSetup
1876         $\textstyle\varepsilon$%
1877         \HOLOGO@Span{X}{$\textstyle\chi$}%
1878         \hologo{TeX}%
1879       }%
```

```
    }%
  }%
}
```

\HoLogoBkm@ExTeX

```
\def\HoLogoBkm@ExTeX#1{%
  \HOLOGO@PdfdocUnicode{#1{e}{E}x}{\83\265\83\247}%\textepsilon\textchi
  \hologo{TeX}%
}
```

\HoLogoCss@ExTeX

```
\def\HoLogoCss@ExTeX{%
  \Css{%
    span.HoLogo-ExTeX{%
      font-family:serif;%
    }%
  }%
  \Css{%
    span.HoLogo-ExTeX span.HoLogo-TeX{%
      margin-left:-.15em;%
    }%
  }%
  \global\let\HoLogoCss@ExTeX\relax
}
```

2.9.23 MiKTEX

\HoLogo@MiKTeX

```
\def\HoLogo@MiKTeX#1{%
  \HOLOGO@mbox{MiK}%
  \HOLOGO@discretionary
  \hologo{TeX}%
}
```

\HoLogoHtml@MiKTeX

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

2.9.24 OzTEX and friends

Source: OzTEX FAQ [6]:

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

\HoLogo@OzTeX

```
\def\HoLogo@OzTeX#1{%
  O%
  \kern-.03em %
  z%
  \kern-.15em %
  \hologo{TeX}%
}
```

\HoLogoHtml@OzTeX

```
\def\HoLogoHtml@OzTeX#1{%
  \HoLogoCss@OzTeX
  \HOLOGO@Span{OzTeX}{%
```

```
    O%
    \HOLOGO@Span{z}{z}%
    \hologo{TeX}%
  }%
}
```

\HoLogoCss@OzTeX

```
\def\HoLogoCss@OzTeX{%
  \Css{%
    span.HoLogo-OzTeX span.HoLogo-z{%
      margin-left:-.03em;%
      margin-right:-.15em;%
    }%
  }%
  \global\let\HoLogoCss@OzTeX\relax
}
```

\HoLogo@OzMF

```
\def\HoLogo@OzMF#1{%
  \HOLOGO@mbox{OzMF}%
}
```

\HoLogo@OzMP

```
\def\HoLogo@OzMP#1{%
  \HOLOGO@mbox{OzMP}%
}
```

\HoLogo@OzTtH

```
\def\HoLogo@OzTtH#1{%
  \HOLOGO@mbox{OzTtH}%
}
```

2.9.25 PCTEX

\HoLogo@PCTeX

```
\def\HoLogo@PCTeX#1{%
  \HOLOGO@mbox{PC}%
  \hologo{TeX}%
}
```

\HoLogoHtml@PCTeX

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

2.9.26 PICTEX

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

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

\HoLogo@PiC

```
\def\HoLogo@PiC#1{%
  P%
  \kern-.12em%
  \lower.5ex\hbox{I}%
  \kern-.075em%
  C%
  \HOLOGO@SpaceFactor
}
```

\HoLogoHtml@PiC

```
\def\HoLogoHtml@PiC#1{%
  \HoLogoCss@PiC
  \HOLOGO@Span{PiC}{%
    P%
    \HOLOGO@Span{i}{I}%
    C%
  }%
}
```

\HoLogoCss@PiC

```
\def\HoLogoCss@PiC{%
  \Css{%
    span.HoLogo-PiC span.HoLogo-i{%
      position:relative;%
      top:.5ex;%
      margin-left:-.12em;%
      margin-right:-.075em;%
      text-decoration:none;%
    }%
  }%
  \global\let\HoLogoCss@PiC\relax
}
```

\HoLogo@PiCTeX

```
\def\HoLogo@PiCTeX#1{%
  \hologo{PiC}%
  \HOLOGO@discretionary
  \kern-.11em%
  \hologo{TeX}%
}
```

\HoLogoHtml@PiCTeX

```
\def\HoLogoHtml@PiCTeX#1{%
  \HoLogoCss@PiCTeX
  \HOLOGO@Span{PiCTeX}{%
    \hologo{PiC}%
    \hologo{TeX}%
  }%
}
```

\HoLogoCss@PiCTeX

```
\def\HoLogoCss@PiCTeX{%
  \Css{%
    span.HoLogo-PiCTeX span.HoLogo-PiC{%
      margin-right:-.11em;%
    }%
```

```
  }%
  \global\let\HoLogoCss@PiCTeX\relax
}
```

2.9.27 teTEX

\HoLogo@teTeX

```
\def\HoLogo@teTeX#1{%
  \HOLOGO@mbox{#1{t}{T}e}%
  \HOLOGO@discretionary
  \hologo{TeX}%
}
```

\HoLogoCs@teTeX

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

\HoLogoBkm@teTeX

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

\HoLogoHtml@teTeX

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

2.9.28 TEX4ht

\HoLogo@TeX4ht

```
\expandafter\def\csname HoLogo@TeX4ht\endcsname#1{%
  \HOLOGO@mbox{\hologo{TeX}4ht}%
}
```

\HoLogoHtml@TeX4ht

```
\expandafter
\let\csname HoLogoHtml@TeX4ht\expandafter\endcsname
\csname HoLogo@TeX4ht\endcsname
```

2.9.29 SageTEX

\HoLogo@SageTeX

```
\def\HoLogo@SageTeX#1{%
  \HOLOGO@mbox{Sage}%
  \HOLOGO@discretionary
  \HOLOGO@NegativeKerning{eT,oT,To}%
  \hologo{TeX}%
}
```

\HoLogoHtml@SageTeX

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

2.10 METAFONT and friends

\HoLogo@METAFONT

```
\def\HoLogo@METAFONT#1{%
  \HoLogoFont@font{METAFONT}{logo}{%
    \HOLOGO@mbox{META}%
    \HOLOGO@discretionary
```

```
    \HOLOGO@mbox{FONT}%
  }%
}
```

\HoLogo@METAPOST

```
\def\HoLogo@METAPOST#1{%
  \HoLogoFont@font{METAPOST}{logo}{%
    \HOLOGO@mbox{META}%
    \HOLOGO@discretionary
    \HOLOGO@mbox{POST}%
  }%
}
```

\HoLogo@MetaFun

```
\def\HoLogo@MetaFun#1{%
  \HOLOGO@mbox{Meta}%
  \HOLOGO@discretionary
  \HOLOGO@mbox{Fun}%
}
```

\HoLogo@MetaPost

```
\def\HoLogo@MetaPost#1{%
  \HOLOGO@mbox{Meta}%
  \HOLOGO@discretionary
  \HOLOGO@mbox{Post}%
}
```

2.11 Others

2.11.1 biber

\HoLogo@biber

```
\def\HoLogo@biber#1{%
  \HOLOGO@mbox{#1{b}{B}i}%
  \HOLOGO@discretionary
  \HOLOGO@mbox{ber}%
}
```

\HoLogoCs@biber

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

\HoLogoBkm@biber

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

\HoLogoHtml@biber

```
\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%
        }%
      }%
    }{}
2050 \def\HoLogo@KOMAScript#1{%
2051   \HoLogoFont@font{KOMAScript}{sf}{%
2052     \HOLOGO@mbox{%
2053       K\kern.05em%
2054       O\kern.05em%
2055       M\kern.05em%
2056       A%
2057     }%
2058     \kern.1em%
2059     \HOLOGO@hyphen
2060     \kern.1em%
2061     \HOLOGO@mbox{Script}%
2062   }%
2063 }
```

\HoLogoBkm@KOMAScript

```
2064 \def\HoLogoBkm@KOMAScript#1{%
2065   KOMA-Script%
2066 }
```

\HoLogoHtml@KOMAScript

```
2067 \def\HoLogoHtml@KOMAScript#1{%
2068   \HoLogoCss@KOMAScript
2069   \HoLogoFont@font{KOMAScript}{sf}{%
2070     \HOLOGO@Span{KOMAScript}{%
2071       K%
2072       \HOLOGO@Span{O}{O}%
2073       M%
2074       \HOLOGO@Span{A}{A}%
2075       \HOLOGO@Span{hyphen}{-}%
2076       Script%
2077     }%
2078   }%
2079 }
```

\HoLogoCss@KOMAScript

```
2080 \def\HoLogoCss@KOMAScript{%
2081   \Css{%
2082     span.HoLogo-KOMAScript{%
2083       font-family:sans-serif;%
2084     }%
2085   }%
2086   \Css{%
2087     span.HoLogo-KOMAScript span.HoLogo-O{%
2088       padding-left:.05em;%
2089       padding-right:.05em;%
2090     }%
2091   }%
2092   \Css{%
2093     span.HoLogo-KOMAScript span.HoLogo-A{%
2094       padding-left:.05em;%
```

```
    }%
  }%
  \Css{%
    span.HoLogo-KOMAScript span.HoLogo-hyphen{%
      padding-left:.1em;%
      padding-right:.1em;%
    }%
  }%
  \global\let\HoLogoCss@KOMAScript\relax
}
```

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%
  }%
}
```

```
\def\HoLogo@LyX#1{%
  L%
  \kern-.1667em%
  \lower.25em\hbox{Y}%
  \kern-.125em%
  X%
  \HOLOGO@SpaceFactor
}
```

\HoLogoHtml@LyX

```
\def\HoLogoHtml@LyX#1{%
  \HoLogoCss@LyX
  \HOLOGO@Span{LyX}{%
    L%
    \HOLOGO@Span{y}{Y}%
    X%
  }%
}
```

\HoLogoCss@LyX

```
\def\HoLogoCss@LyX{%
  \Css{%
    span.HoLogo-LyX span.HoLogo-y{%
      position:relative;%
      top:.25em;%
      margin-left:-.1667em;%
      margin-right:-.125em;%
      text-decoration:none;%
    }%
  }%
  \global\let\HoLogoCss@LyX\relax
}
```

2.11.4 $\mathcal{NTS}$

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

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

```
\def\HoLogo@NTS#1{%
  \HoLogoFont@font{NTS}{sy}{%
    N\/%
    \kern-.35em%
    \lower.5ex\hbox{T\/}%
    \kern-.2em%
    S\/%
  }%
  \HOLOGO@SpaceFactor
}
```

2.11.5 T_TH (TEX 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

```
\def\HoLogo@TTH#1{%
  \ltx@mbox{%
    T\HOLOGO@SubScript{T}H%
  }%
  \HOLOGO@SpaceFactor
}
```

\HoLogoHtml@TTH

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

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

```
\def\HoLogo@HanTheThanh#1{%
  \ltx@mbox{H\‘an}%
  \HOLOGO@space
  \ltx@mbox{%
    Th%
    \HOLOGO@IfCharExists{"1EBF}{%
      \char"1EBF\relax
    }{%
```

```
      \^e\hbox to 0pt{\hss\raise .5ex\hbox{\'{}}}%
    }%
  }%
  \HOLOGO@space
  \ltx@mbox{Th\‘anh}%
}
```

\HoLogoBkm@HanTheThanh

```
\def\HoLogoBkm@HanTheThanh#1{%
  H\‘an %
  Th\HOLOGO@PdfdocUnicode{\^e}{\9036\277} %
  Th\‘anh%
}
```

\HoLogoHtml@HanTheThanh

```
\def\HoLogoHtml@HanTheThanh#1{%
  H\‘an %
  Th\HCode{&\ltx@hashchar x1ebf;} %
  Th\‘anh%
}
```

2.12 Driver detection

```
\HOLOGO@IfExists\InputIfFileExists{%
  \InputIfFileExists{hologo.cfg}{}{}%
}{%
  \ltx@IfUndefined{pdf@filesize}{%
    \def\HOLOGO@InputIfExists{%
      \openin\HOLOGO@temp=hologo.cfg\relax
      \ifeof\HOLOGO@temp
        \closein\HOLOGO@temp
      \else
        \closein\HOLOGO@temp
        \begingroup
          \def\x{LaTeX2e}%
        \expandafter\endgroup
        \ifx\fmtname\x
          \input{hologo.cfg}%
        \else
          \input hologo.cfg\relax
        \fi
      \fi
    }%
    \ltx@IfUndefined{newread}{%
      \chardef\HOLOGO@temp=15 %
      \def\HOLOGO@CheckRead{%
        \ifeof\HOLOGO@temp
          \HOLOGO@InputIfExists
        \else
          \ifcase\HOLOGO@temp
            \@PackageWarningNoLine{hologo}{%
              Configuration file ignored, because\MessageBreak
              a free read register could not be found%
            }%
          \else
            \begingroup
              \count\ltx@cclv=\HOLOGO@temp
              \advance\ltx@cclv by \ltx@minusone
```

```
              \edef\x{\endgroup
                \chardef\noexpand\HOLOGO@temp=\the\count\ltx@cclv
                \relax
              }%
            \x
          \fi
        \fi
      }%
    }{%
      \csname newread\endcsname\HOLOGO@temp
      \HOLOGO@InputIfExists
    }%
  }{%
    \edef\HOLOGO@temp{\pdf@filesize{hologo.cfg}}%
    \ifx\HOLOGO@temp\ltx@empty
    \else
      \ifnum\HOLOGO@temp>0 %
        \begingroup
          \def\x{LaTeX2e}%
        \expandafter\endgroup
        \ifx\fmtname\x
          \input{hologo.cfg}%
        \else
          \input hologo.cfg\relax
        \fi
      \else
        \@PackageInfoNoLine{hologo}{%
          Empty configuration file ‘hologo.cfg’ ignored%
        }%
      \fi
    \fi
  }%
}
\def\HOLOGO@temp#1#2{%
  \kv@define@key{HoLogoDriver}{#1}[]{%
    \begingroup
      \def\HOLOGO@temp{##1}%
      \ltx@onelevel@sanitize\HOLOGO@temp
      \ifx\HOLOGO@temp\ltx@empty
      \else
        \@PackageError{hologo}{%
          Value (\HOLOGO@temp) not permitted for option ‘#1’%
        }%
        \@ehc
      \fi
    \endgroup
    \def\hologoDriver{#2}%
  }%
}%
\def\HOLOGO@@temp#1#2{%
  \ifx\kv@value\relax
    \HOLOGO@temp{#1}{#1}%
  \else
    \HOLOGO@temp{#1}{#2}%
  \fi
}%
\kv@parse@normalized{%
  pdftex,%
```

```
  luatex=pdftex,%
  dvipdfm,%
  dvipdfmx=dvipdfm,%
  dvips,%
  dvipsone=dvips,%
  xdvi=dvips,%
  xetex,%
  vtex,%
}\HOLOGO@@temp
\kv@define@key{HoLogoDriver}{driverfallback}{%
  \def\HOLOGO@DriverFallback{#1}%
}
```

\HOLOGO@DriverFallback

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

\hologoDriverSetup

```
\def\hologoDriverSetup{%
  \let\hologoDriver\ltx@undefined
  \HOLOGO@DriverSetup
}
```

\HOLOGO@DriverSetup

```
\def\HOLOGO@DriverSetup#1{%
  \kvsetkeys{HoLogoDriver}{#1}%
  \HOLOGO@CheckDriver
  \ltx@ifundefined{hologoDriver}{%
    \begingroup
    \edef\x{\endgroup
      \noexpand\kvsetkeys{HoLogoDriver}{\HOLOGO@DriverFallback}%
    }\x
  }{}%
  \@PackageInfoNoLine{hologo}{Using driver `\hologoDriver'}%
}
```

\HOLOGO@CheckDriver

```
\def\HOLOGO@CheckDriver{%
  \ifpdf
    \def\hologoDriver{pdftex}%
    \let\HOLOGO@pdfliteral\pdfliteral
    \ifluatex
      \ifx\pdfextension\@undefined\else
        \protected\def\pdfliteral{\pdfextension literal}%
        \let\HOLOGO@pdfliteral\pdfliteral
      \fi
      \ltx@IfUndefined{HOLOGO@pdfliteral}{%
        \ifnum\luatexversion<36 %
        \else
          \begingroup
            \let\HOLOGO@temp\endgroup
            \ifcase0%
                \directlua{%
                  if tex.enableprimitives then %
                    tex.enableprimitives('HOLOGO@', {'pdfliteral'})%
                  else %
                    tex.print('1')%
                  end%
                }%
```

```
                \ifx\HOLOGO@pdfliteral\@undefined 1\fi%
                \relax%
              \endgroup
              \let\HOLOGO@temp\relax
              \global\let\HOLOGO@pdfliteral\HOLOGO@pdfliteral
            \fi%
          \HOLOGO@temp
        \fi
      }{}%
    \fi
    \ltx@IfUndefined{HOLOGO@pdfliteral}{%
      \@PackageWarningNoLine{hologo}{%
        Cannot find \string\pdfliteral
      }%
    }{}%
  \else
    \ifxetex
      \def\hologoDriver{xetex}%
    \else
      \ifvtex
        \def\hologoDriver{vtex}%
      \fi
    \fi
  \fi
}
```

HOLOGO@WarningUnsupportedDriver

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

2.12.1 Reflect box macros

Skip driver part if not needed.

```
\ltx@IfUndefined{reflectbox}{}{%
  \ltx@IfUndefined{rotatebox}{}{%
    \HOLOGO@AtEnd
  }%
}
\ltx@IfUndefined{pgftext}{}{%
  \HOLOGO@AtEnd
}
\ltx@IfUndefined{psscalebox}{}{%
  \HOLOGO@AtEnd
}

\def\HOLOGO@temp{LaTeX2e}
\ifx\fmtname\HOLOGO@temp
  \RequirePackage{kvoptions}[2011/06/30]%
  \ProcessKeyvalOptions{HoLogoDriver}%
\fi
\HOLOGO@DriverSetup{}
```

\HOLOGO@ReflectBox

```
\def\HOLOGO@ReflectBox#1{%
  \begingroup
    \setbox\ltx@zero\hbox{\begingroup#1\endgroup}%
    \setbox\ltx@two\hbox{%
      \kern\wd\ltx@zero
      \csname HOLOGO@ScaleBox@\hologoDriver\endcsname{-1}{1}{%
        \hbox to 0pt{\copy\ltx@zero\hss}%
      }%
    }%
    \wd\ltx@two=\wd\ltx@zero
    \box\ltx@two
  \endgroup
}
```

\HOLOGO@PointReflectBox

```
\def\HOLOGO@PointReflectBox#1{%
  \begingroup
    \setbox\ltx@zero\hbox{\begingroup#1\endgroup}%
    \setbox\ltx@two\hbox{%
      \kern\wd\ltx@zero
      \raise\ht\ltx@zero\hbox{%
        \csname HOLOGO@ScaleBox@\hologoDriver\endcsname{-1}{-1}{%
          \hbox to 0pt{\copy\ltx@zero\hss}%
        }%
      }%
    }%
    \wd\ltx@two=\wd\ltx@zero
    \box\ltx@two
  \endgroup
}
```

We must define all variants because of dynamic driver setup.

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

\HOLOGO@ScaleBox@pdftex

```
\HOLOGO@temp{pdftex}{%
  \def\HOLOGO@ScaleBox@pdftex#1#2#3{%
    \HOLOGO@pdfliteral{%
      q #1 0 0 #2 0 0 cm%
    }%
    #3%
    \HOLOGO@pdfliteral{%
      Q%
    }%
  }%
}
```

\HOLOGO@ScaleBox@dvips

```
\HOLOGO@temp{dvips}{%
  \def\HOLOGO@ScaleBox@dvips#1#2#3{%
    \special{ps:%
      gsave %
      currentpoint %
      currentpoint translate %
      #1 #2 scale %
      neg exch neg exch translate%
    }%
```

```
    #3%
    \special{ps:%
      currentpoint %
      grestore %
      moveto%
    }%
  }%
}
```

\HOLOGO@ScaleBox@dvipdfm

```
\HOLOGO@temp{dvipdfm}{%
  \let\HOLOGO@ScaleBox@dvipdfm\HOLOGO@ScaleBox@dvips
}
```

Since XeTeX v0.6.

\HOLOGO@ScaleBox@xetex

```
\HOLOGO@temp{xetex}{%
  \def\HOLOGO@ScaleBox@xetex#1#2#3{%
    \special{x:gsave}%
    \special{x:scale #1 #2}%
    #3%
    \special{x:grestore}%
  }%
}
```

\HOLOGO@ScaleBox@vtex

```
\HOLOGO@temp{vtex}{%
  \def\HOLOGO@ScaleBox@vtex#1#2#3{%
    \special{r(#1,0,0,#2,0,0}%
    #3%
    \special{r)}%
  }%
}

\HOLOGO@AtEnd%
⟨/package⟩
```

3 Installation

3.1 Download

Package. This package is available on CTAN[1]:

CTAN:macros/latex/contrib/hologo/hologo.dtx The source file.

CTAN:macros/latex/contrib/hologo/hologo.pdf Documentation.

Bundle. All the packages of the bundle 'hologo' 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/hologo.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.

[1] CTAN:pkg/hologo

3.2 Bundle installation

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

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

3.3 Package installation

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

```
tex hologo.dtx
```

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

```
hologo.sty                → tex/generic/hologo/hologo.sty
hologo.pdf                → doc/latex/hologo/hologo.pdf
example/hologo-example.tex → doc/latex/hologo/example/hologo-example.tex
hologo.dtx                → source/latex/hologo/hologo.dtx
```

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

3.4 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 `mktexlsr`.

3.5 Some details for the interested

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

plain TEX: Run docstrip and extract the files.

LATEX: Generate the documentation.

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

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

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

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

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

An example follows how to generate the documentation with pdfLATEX:

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

4 References

[1] Oren Patashnik, *BibTeXing*, 1988-02-08.
CTAN:pkg/bibtex

[2] Gerd Neugebauer, DANTE, *Package* dtklogos, 2011-04-25.
http://mirrors.ctan.org/usergrps/dante/dtk/dtk-logos.sty

[3] The NTS Team, *The ε-TeX manual*, 1998-02.
CTAN:pkg/etex

[4] The εχTeX group, *εχTeX: FAQ – How is εχTeX typeset?*, 2007-04-14.
http://www.extex.org/documentation/faq.html

[5] The LyX Team, *LyX – The Document Processor*, 2011-05-08.
https://www.lyx.org/

[6] Andrew Trevorrow, OzTeX FAQ: What is the correct way to typeset "OzTeX"?, 2011-09-15 (visited).
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[7] Michael Wichura, *The PiCTeX macro package*, 1987-09-21. CTAN:pkg/pictex

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5 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]

- LaTeX3 added.
- VTeX added.

[2010/11/21 v1.3]

- iniTeX, virTeX added.

[2011/03/25 v1.4]

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

[2011/04/21 v1.5]

- Wrong TDS directory for test files fixed.

[2011/10/01 v1.6]

- Support for package tex4ht added.
- Support for `\csname` added if `\ifincsname` is available.
- New logos: (LA)TeX, biber, BibTeX (sc, sf), emTeX, ε_XTeX, KOMA-Script, LA, LyX, MiKTeX, $\mathcal{NTS}$, OzMF, OzMP, OzTeX, OzTtH, PCTeX, PiC, PiCTeX, METAFONT, MetaFun, METAPOST, MetaPost, SLiTeX (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.
- XeTeX and friends: Driver stuff fixed.
- XeTeX and friends: Support for italic added.
- XeTeX 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)

[2019/12/05 v1.14]

- Documentation updates.

[2021-11-16 v1.15]

- use PU directly for textepsilon and textchi, issue #4

6 Index

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