The hologo package

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Abstract

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

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 $^{{\}rm *Please\ report\ any\ issues\ at\ https://github.com/ho-tex/oberdiek/issues}$

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1 Documentation

1.1 Logo macros

Macro \hologo sets the logo with name $\langle name \rangle.$ The following table shows the supported names.

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	name	variant	logo	since
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(La)TeX		(LA)T _E X	2011/10/01
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	AmSLaTeX		$\mathcal{A}_{\mathcal{M}}\mathcal{S}$ -I $^{\!$	2010/04/16
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	AmSTeX		$\mathcal{A}_{\mathcal{M}}\mathcal{S} ext{-}\mathrm{T}_{\mathrm{E}}\mathrm{X}$	2010/04/16
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	biber		biber	2011/10/01
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	BibTeX		BibTeX	2011/10/01
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	BibTeX	sf	BibTeX	2011/10/01
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	BibTeX	sc	BibT _E X	2011/10/01
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	BibTeX8		BibTeX8	2011/11/22
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ConTeXt		$ConT_EXt$	2011/03/25
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ConTeXt	narrow	$ConT_EXt$	2011/03/25
eTeX ε -TeX $2010/04/08$ ExTeX ε_X TeX $2011/10/01$ HanTheThanh Hàn Thế Thành $2011/11/29$	ConTeXt	simple	$ConT_{E}Xt$	2011/03/25
ExTeX $\varepsilon_X T_{\rm E} X$ $2011/10/01$ HanTheThanhHàn Thế Thành $2011/11/29$	emTeX		$\mathrm{em} T_{\mathrm{E}} X$	2010/04/26
Han Thế Thành 2011/11/29	eTeX		$\varepsilon ext{-TeX}$	2010/04/08
, ,	ExTeX			2011/10/01
	HanTheThanh		Hàn Thế Thành	2011/11/29
iniTeX iniTeX $2011/10/01$	iniTeX		$\mathrm{ini}\mathrm{T_{\!E}}\!\mathrm{X}$	2011/10/01
KOMAScript KOMA-Script 2011/10/01	KOMAScript		KOMA-Script	2011/10/01
La	La		<u>I</u> A	
LaTeX \LaTeX 2010/04/08	LaTeX			
LaTeX2e	LaTeX2e		$\LaTeX 2_{\varepsilon}$	
LaTeX3 IAT_EX3 $2010/04/24$	LaTeX3		LATEX3	2010/04/24
LaTeXe $\LaTeX 2210/04/08$	LaTeXe		$\LaTeX 2_{\varepsilon}$	2010/04/08
LaTeXML LAT_{EXML} $2011/11/22$	LaTeXML			
LaTeXTeX (IA) $T_{\rm E}X$ 2011/10/01	LaTeXTeX		$(IA)T_EX$, ,
LuaLaTeX LuaLaTeX $2010/04/08$	LuaLaTeX		_	, ,
LuaTeX LuaTeX $2010/04/08$	LuaTeX		_	
LyX $L_{Y}X$ $2011/10/01$	LyX		L _Y X	
METAFONT METAFONT $2011/10/01$	METAFONT		METAFONT	
MetaFun $MetaFun$ $2011/10/01$	MetaFun		MetaFun	
METAPOST METAPOST $2011/10/01$	METAPOST		METAPOST	, ,
MetaPost $MetaPost$ $2011/10/01$	MetaPost			, ,
MiKTeX MiKTeX 2011/10/01	MiKTeX			
NTS $\mathcal{N}_{\mathcal{T}}\mathcal{S}$ $2011/10/01$	NTS		,	
OzMF $0zMF 2011/10/01$	OzMF			
OzMP $OzMP = 2011/10/01$	OzMP			, ,
OzTeX OzT_{EX} $2011/10/01$				
OzTtH OzTtH $2011/10/01$				
PCTeX PCT_{EX} $2011/10/01$				
pdfTeX $pdfTeX$ $2011/10/01$	-			, ,
pdfLaTeX $pdfLaTeX$ $2011/10/01$	-		_	
PiC $P_{1}C$ $2011/10/01$	PiC		PIC	2011/10/01

name	variant	$\log o$	\mathbf{since}
PiCTeX		PICTEX	2011/10/01
plainTeX		plain T_EX	2010/04/08
plainTeX	space	plain T_EX	2010/04/16
plainTeX	hyphen	$\operatorname{plain-TEX}$	2010/04/16
plainTeX	runtogether	$plainT_EX$	2010/04/16
SageTeX		$SageT_{E}X$	2011/11/22
SLiTeX		SLT_EX	2011/10/01
SLiTeX	lift	SLT_EX	2011/10/01
SLiTeX	narrow	$SLiT_{E}X$	2011/10/01
SLiTeX	simple	$SLiT_{E}X$	2011/10/01
SliTeX		$SLiT_EX$	2011/10/01
SliTeX	narrow	$SLiT_{E}X$	2011/10/01
SliTeX	simple	$SLiT_EX$	2011/10/01
SliTeX	lift	SLTEX	2011/10/01
teTeX		$\mathrm{teT}_{\mathrm{E}}\!\mathrm{X}$	2011/10/01
TeX		T_EX	2010/04/08
TeX4ht		T_EX4ht	2011/11/22
TTH		T_TH	2011/11/22
virTeX		${ m vir} { m T}_{ m E} { m X}$	2011/10/01
VTeX		VT_EX	2010/04/24
Xe		X_{Ξ}	2010/04/08
XeLaTeX		XATAEX	2010/04/08
XeTeX		$X_{\overline{1}}T_{\overline{1}}X$	2010/04/08

\Hologo $\{\langle name \rangle\}$

Macro \Hologo starts the logo $\langle name \rangle$ with an upper case letter. As an exception small greek letters are not converted to upper case. Examples, see ε -TEX and ε_X TEX.

1.2 Setup macros

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

\hologoSetup $\{\langle key\ value\ list \rangle\}$

Macro \hologoSetup sets global options.

$\verb|\hologoLogoSetup {$\langle logo\rangle$} {\langle key\ value\ list\rangle}$|$

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_HT_EX). 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 (pdfT_EX/LuaT_EX in PDF mode, X_HT_EX, VT_EX). 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.

$\hologoDriverSetup \{\langle driver \ option \rangle\}$

The driver can also be configured after package loading using $\loading DriverSetup$, also the way for plain T_EX to setup the driver.

1.5 Font setup

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

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

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 BibTFX with variant sf.

rm: This font is a serif font. It is used for $\varepsilon_X T_E X$.

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

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

sy: This is the font for math symbols (e.g. cmsy). It is used by $\mathcal{A}_{\mathcal{M}}\mathcal{S}$, $\mathcal{N}_{\mathcal{T}}\mathcal{S}$, $\varepsilon_{\mathcal{X}}$ TFX.

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

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

$\langle logo angle$	keys	result
BibTeX	bibsf	ВівТЕХ
BibTeX	SC	$BibT_EX$
ExTeX	rm	$\varepsilon_{\!X}\!\mathrm{TEX}$
SliTeX	rm	$SLiT_EX$
AmS	sy	$\mathcal{A}_{\mathcal{M}}\mathcal{S}$
ExTeX	sy	$arepsilon_X ext{TeX}$
NTS	sy	$\mathcal{N}_{\mathcal{T}}\mathcal{S}$
KOMAScript	sf	KOMA-Script
METAFONT	logo	METAFONT
METAPOST	logo	METAPOST
SliTeX	sc SliT _E X	

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 \{\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, ...).

```
\label{logoList} $$ \hologoEntry {$\langle logo\rangle$} {\langle variant\rangle$} {\langle since\rangle$} $$
```

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:

- 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,
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
29 \begingroup
30 \typeout{}%
31 \typeout{*** Begin of logo list ***}%
32 \newcommand*{\hologoEntry}[3]{%
    \typeout{#1 \ifx\\#2\\else(\#2) \fi[\#3]}\%
33
34 }%
35 \hologoList
36 \typeout{*** End of logo list ***}%
37 \typeout{}%
38 \endgroup
39
40 \begin{document}
41 \begin{landscape}
42
43
    \section{Example file for package `hologo'}
44
   % Table for font names
45
46
    \begin{longtable}{>{\bfseries}ll}
47
     \textbf{font} & \textbf{Font name}\\
48
49
     \hline
     lmr & Latin Modern Roman\\
50
51
     lmss & Latin Modern Sans\\
52
     qtm & \TeX\ Gyre Termes\\
     qhv & \TeX\ Gyre Heros\\
53
     qpl & \TeX\ Gyre Pagella\\
54
55
    \end{longtable}
56
   \% Logo list with logos in different fonts
57
58
59
   \begingroup
60
     \newcommand*{\SetVariant}[2]{%
61
       \int \frac{\pi}{\pi} \
62
       \else
        \label{logoLogoSetup} $$ \ \sigma_0 = \#1 {\rm variant} = \#2 \% $$
63
       \fi
64
65
     \newcommand*{\hologoEntry}[3]{%
66
67
       SetVariant{#1}{#2}%
68
       \label{lem} $$ \operatorname{lem}[0pt][0pt]_{\hypertarget}$$ $\#10\#2$_{}%$ $$
69
       \bookmark[%
70
        dest={\#10\#2},\%
71
72
        \#1\left(\frac{2}{\sec(\#2)}\right): \Hologo\{\#1\}, \hologo\{\#1\} \%
73
        [Unicode]%
       }%
74
       \hypersetup{unicode=false}%
75
       \bookmark[%
76
77
        dest={\#1@\#2},\%
78
      ]{%
79
        80
        [PDFDocEncoding]%
81
       }%
82
       \text{texttt}{\#1}\%
83
       &%
      \texttt{#2}%
84
       &%
85
```

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

2 Implementation

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

```
\expandafter\ifx\csname PackageInfo\endcsname\relax
 143
 144
          \def\x#1#2{\%}
           \immediate\write-1{Package #1 Info: #2.}%
 145
 146
 147
 148
          149
 150
        \x{hologo}{The package is already loaded}%
 151
        \aftergroup\endinput
 152
     \fi
 153
 154 \endgroup%
Package identification:
 155 \begingroup\catcode61\catcode48\catcode32=10\relax%
 156 \catcode13=5 % ^^M
 157
     \endlinechar=13 %
     \catcode35=6 % #
 158
 159
     \catcode39=12 % '
 160
     \catcode40=12 % (
     \catcode41=12 % )
     \colone{1} \catcode44=12 %,
     \catcode45=12 % -
 163
     \catcode46=12 % .
 164
     \catcode47=12 % /
 165
     \catcode58=12 % :
 166
     \catcode64=11 % @
 167
     \catcode91=12 % [
 168
     \catcode93=12 % ]
 169
     \catcode123=1 % {
 170
     \catcode125=2 % }
 171
 172
     \expandafter\ifx\csname ProvidesPackage\endcsname\relax
 173
       \def\x#1#2#3[#4]{\endgroup}
        \mbox{\label{limited} $$ \operatorname{\mbox{\label{limited} Package: $\#3$ $\#4}}%
 174
        \xdef#1{#4}%
 175
       }%
 176
     \else
 177
       \def\x#1#2[#3]{\endgroup}
 178
        #2[{#3}]%
 179
        \ifx#1\@undefined
 180
          \xdef#1{#3}%
 181
 182
 183
        \int \frac{1}{r} dx
          \xdef#1{#3}%
 184
        ۱fi
 185
      1%
 186
 187
 188 \expandafter\x\csname ver@hologo.sty\endcsname
 189 \ProvidesPackage{hologo}%
 190 [2017/05/01 v1.13 A logo collection with bookmark support (HO)]%
 191 \begingroup\catcode61\catcode48\catcode32=10\relax%
     \catcode13=5 % ^^M
 192
     \endlinechar=13 %
 193
 194
     \catcode123=1 % {
 195
     \catcode125=2 % }
     \catcode64=11 % @
 196
     \def\x{\endgroup
 197
       \expandafter\edef\csname HOLOGO@AtEnd\endcsname{%
 198
        \endlinechar=\the\endlinechar\relax
 199
        \catcode13=\the\catcode13\relax
 200
 201
        \catcode32=\the\catcode32\relax
        \catcode35=\the\catcode35\relax
 202
        \colored{catcode61=\label{catcode61}relax}
 203
```

```
\catcode64=\the\catcode64\relax
 204
 205
                  \catcode123=\the\catcode123\relax
                  \catcode125=\the\catcode125\relax
 206
 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{%
              \HOLOGO@AtEnd
              \color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\t
 219
 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
           \escapechar\the\escapechar\relax
 251
           \noexpand\endinput
 252 }
 253 \escapechar=92 %
2.1
           Logo list
 254 \def\hologoList{%
           \hologoEntry{(La)TeX}{}{2011/10/01}%
 256
           \hologoEntry{AmSLaTeX}{}{2010/04/16}%
```

\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{BibTeX}{}{2011/11/22}%
```

```
\hologoEntry{ConTeXt}{}{2011/03/25}%
263
   \hologoEntry{ConTeXt}{narrow}{2011/03/25}%
264
   \hologoEntry{ConTeXt}{simple}{2011/03/25}%
265
   266
   \hologoEntry{eTeX}{}{2010/04/08}%
   \hologoEntry{ExTeX}{}{2011/10/01}%
268
   269
270
   \hologoEntry{iniTeX}{}{2011/10/01}%
271
   272
   \hologoEntry{La}{}{2010/05/08}%
   \hologoEntry{LaTeX}{}{2010/04/08}%
273
   \hologoEntry{LaTeX2e}{}{2010/04/08}%
274
   \hologoEntry{LaTeX3}{}{2010/04/24}%
275
276
   \hologoEntry{LaTeXe}{}{2010/04/08}%
   \hologoEntry{LaTeXML}{}{2011/11/22}%
277
   278
279
   280
   \hologoEntry{LuaTeX}{}{2010/04/08}%
   281
282
   283
   \hologoEntry{METAPOST}{}{2011/10/01}%
284
   285
286
   \hologoEntry{MiKTeX}{}{2011/10/01}%
287
   \hologoEntry{NTS}{}{2011/10/01}%
   \hologoEntry{OzMF}{}{2011/10/01}%
289
   \hologoEntry{OzMP}{}{2011/10/01}%
290
   \hologoEntry{OzTeX}{}{2011/10/01}%
291
   \hologoEntry{OzTtH}{}{2011/10/01}%
292
   293
   \hologoEntry{pdfTeX}{}{2011/10/01}%
   \hologoEntry{pdfLaTeX}{}{2011/10/01}%
294
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}%
   \hologoEntry{SLiTeX}{lift}{2011/10/01}%
303
   \hologoEntry{SLiTeX}{narrow}{2011/10/01}%
304
   \hologoEntry{SLiTeX}{simple}{2011/10/01}%
305
306
   307
   \hologoEntry{SliTeX}{narrow}{2011/10/01}%
308
   \hologoEntry{SliTeX}{simple}{2011/10/01}%
309
   \hologoEntry{SliTeX}{lift}{2011/10/01}%
   310
   \hologoEntry{TeX}{}{2010/04/08}%
311
   \hologoEntry{TeX4ht}{}{2011/11/22}%
312
   \hologoEntry{TTH}{}{2011/11/22}%
313
   \hologoEntry{virTeX}{}{2011/10/01}%
314
   \hologoEntry{VTeX}{}{2010/04/24}%
315
   \hologoEntry{Xe}{}{2010/04/08}%
316
317
   \hologoEntry{XeLaTeX}{}{2010/04/08}%
   \hologoEntry{XeTeX}{}{2010/04/08}%
319 }
```

2.2 Load resources

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

```
\def\TMP@RequirePackage#1[#2]{%
                       322
                       323
                             \begingroup\expandafter\expandafter\expandafter\endgroup
                             \expandafter\ifx\csname ver@#1.sty\endcsname\relax
                       324
                              \input #1.sty\relax
                       325
                             \fi
                       326
                       327
                           7%
                       328
                           \TMP@RequirePackage{ltxcmds}[2011/02/04]%
                       329
                           \TMP@RequirePackage{infwarerr}[2010/04/08]%
                           \verb|\TMP@RequirePackage{kvsetkeys}| [2010/03/01] \% |
                       330
                           \TMP@RequirePackage{kvdefinekeys}[2010/03/01]%
                       331
                           \TMP@RequirePackage{pdftexcmds}[2010/04/01]%
                       332
                           \TMP@RequirePackage{ifpdf}[2010/01/28]%
                       333
                           \TMP@RequirePackage{ifluatex}[2010/03/01]%
                       334
                           \ltx@IfUndefined{newif}{%
                       335
                             \expandafter\let\csname newif\endcsname\ltx@newif
                       336
                           }{}%
                       337
                       338
                           \TMP@RequirePackage{ifxetex}[2009/01/23]%
                           \TMP@RequirePackage{ifvtex}[2010/03/01]%
                       339
                       340 \else
                       341
                           \RequirePackage{ltxcmds}[2011/02/04]%
                           \RequirePackage{infwarerr}[2010/04/08]%
                       342
                           \RequirePackage{kvsetkeys}[2010/03/01]%
                       343
                           \RequirePackage{kvdefinekeys}[2010/03/01]%
                       344
                           \RequirePackage{pdftexcmds}[2010/04/01]%
                       345
                           \RequirePackage{ifpdf}[2010/01/28]%
                       346
                           \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{%
                           \ifx\@undefined#1%
                       353
                            \expandafter\ltx@secondoftwo
                       354
                           \else
                             \int x^{\pi} x^{\pi}
                       355
                              \expandafter\ltx@secondoftwo
                       356
                             \else
                       357
                              \verb|\expandafter| expandafter| ltx@firstoftwo|
                       358
                       359
                             \fi
                           \fi
                       360
                      361 }
                      2.3
                            Setup macros
       \hologoSetup
                       362 \def\hologoSetup{%
                       363 \let\HOLOGO@name\relax
                           \HOLOGO@Setup
                       365 }
   \hologoLogoSetup
                       366 \def\hologoLogoSetup#1{%
                           \edef\HOLOGO@name{#1}%
                       367
                           \ltx@IfUndefined{HoLogo@\HOLOGO@name}{%
                       368
                       369
                             \@PackageError{hologo}{%
                       370
                              Unknown logo `\HOLOGO@name'%
                       371
                            \\\ \@ehc
                       372
                            \ltx@gobble
                       373
                           }{%
                            \HOLOGO@Setup
                      374
                           }%
                      375
                      376 }
```

```
\HOLOGO@Setup
```

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

2.4 Options

```
\HOLOGO@DeclareBoolOption
```

```
380 \def\HOLOGO@DeclareBoolOption#1{%
                 \expandafter\chardef\csname HOLOGOOPT@#1\endcsname\ltx@zero
                 \w \ensuremath{$\stackrel{\ }{$}$} \
382
                        \def\HOLOGO@temp{##1}%
383
                        \ifx\HOLOGO@temp\HOLOGO@true
384
385
                             \ifx\HOLOGO@name\relax
                                   \expandafter\chardef\csname HOLOGOOPT@#1\endcsname=\ltx@one
386
387
                                  \expandafter\chardef\csname
388
389
                                  HoLogoOpt@#1@\HOLOGO@name\endcsname\ltx@one
390
                             \HOLOGO@SetBreakAll{#1}%
391
392
                             \ifx\HOLOGO@temp\HOLOGO@false
393
394
                                  \ifx\HOLOGO@name\relax
                                       \expandafter\chardef\csname HOLOGOOPT@#1\endcsname=\ltx@zero
395
396
                                       \expandafter\chardef\csname
397
398
                                       HoLogoOpt@#1@\HOLOGO@name\endcsname=\ltx@zero
399
                                  \HOLOGO@SetBreakAll{#1}%
400
401
                             \else
                                  \@PackageError{hologo}{%
402
                                       Unknown value `##1' for boolean option `#1'.\MessageBreak
403
                                       Known values are `true' and `false'%
404
                                  }\@ehc
405
                             ۱fi
406
                        \fi
408
                 }%
409 }
410 \def\HOLOGO@SetBreakAll#1{%
```

\HOLOGO@SetBreakAll

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

```
\HOLOGO@true
                 431 \def\HOLOGO@true{true}
  \HOLOGO@false
                 432 \def\HOLOGO@false{false}
 \HOLOGO@break
                 433 \def\HOLOGO@break{break}
                 434 \HOLOGO@DeclareBoolOption{break}
                 435 \HOLOGO@DeclareBoolOption{hyphenbreak}
                 436 \HOLOGO@DeclareBoolOption{spacebreak}
                 437 \HOLOGO@DeclareBoolOption{discretionarybreak}
                 438 \kv@define@key{HoLogo}{variant}{%
                 439 \ifx\HOLOGO@name\relax
                      \@PackageError{hologo}{%
                 440
                       Option `variant' is not available in \string\hologoSetup,%
                 441
                       \MessageBreak
                 442
                       Use \string\hologoLogoSetup\space instead%
                 443
                      \\\ \@ehc
                 444
                     \else
                 445
                 446
                      \edef\HOLOGO@temp{#1}%
                 447
                      \ifx\HOLOGO@temp\ltx@empty
                 448
                       \expandafter
                       449
                 450
                       \ltx@IfUndefined{HoLogo@\HOLOGO@name @\HOLOGO@temp}{%
                 451
                 452
                        \@PackageError{hologo}{%
                          Unknown variant `\HOLOGO@temp' of logo `\HOLOGO@name'%
                 453
                        }\@ehc
                 454
                       }{%
                 455
                 456
                         \expandafter
                         \let\csname HoLogoOpt@variant@\HOLOGO@name\endcsname
                 457
                           \HOLOGO@temp
                 458
                       }%
                 459
                      \fi
                 460
                     \fi
                 461
                 462 }
\HOLOGO@Variant
                 463 \def\HOLOGO@Variant#1{%
                 464 #1%
                 465 \quad \texttt{\local{hologoOpt@variant@#1}{\%}}
                 466 }{%
                 467
                      @\csname HoLogoOpt@variant@#1\endcsname
                 468 }%
                 469 }
                      Break/no-break support
 \HOLOGO@space
                 470 \def\HOLOGO@space{%
                     471
                      472
                       \chardef\HOLOGO@temp=\HOLOGOOPT@spacebreak
                 473
                 474
                       \chardef\HOLOGO@temp=%
                 475
                         \csname HoLogoOpt@break@\HOLOGO@name\endcsname
                 476
                 477
                      }%
                 478 }{%
                      \chardef\HOLOGO@temp=%
```

```
\csname HoLogoOpt@spacebreak@\HOLOGO@name\endcsname
                                                                                                                                                                    480
                                                                                                                                                                                                }%
                                                                                                                                                                    481
                                                                                                                                                                                                 \ifcase\HOLOGO@temp
                                                                                                                                                                    482
                                                                                                                                                                                                         \penalty10000 %
                                                                                                                                                                    483
                                                                                                                                                                                                \fi
                                                                                                                                                                    485
                                                                                                                                                                                                \ltx@space
                                                                                                                                                                    486 }
                               \HOLOGO@hyphen
                                                                                                                                                                    487 \def\HOLOGO@hyphen{%
                                                                                                                                                                                                 \label{local-prop} $$ \lim_{M\to\infty} HOLOGO@name} {\% $$ \color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=
                                                                                                                                                                                                          \label{locality} $$  \t @\dots = {\dots on the conditions of the
                                                                                                                                                                    490
                                                                                                                                                                                                                    \chardef\HOLOGO@temp=\HOLOGOOPT@hyphenbreak
                                                                                                                                                                    491
                                                                                                                                                                                                                    \chardef\HOLOGO@temp=%
                                                                                                                                                                    492
                                                                                                                                                                                                                            \csname HoLogoOpt@break@\HOLOGO@name\endcsname
                                                                                                                                                                    493
                                                                                                                                                                                                        }%
                                                                                                                                                                    494
                                                                                                                                                                                                }{%
                                                                                                                                                                    495
                                                                                                                                                                                                         \chardef\HOLOGO@temp=%
                                                                                                                                                                    496
                                                                                                                                                                                                                    \csname HoLogoOpt@hyphenbreak@\HOLOGO@name\endcsname
                                                                                                                                                                    497
                                                                                                                                                                    498
                                                                                                                                                                                                 \ifcase\HOLOGO@temp
                                                                                                                                                                    499
                                                                                                                                                                                                         \t \mbox{-}\
                                                                                                                                                                    501
                                                                                                                                                                                               \else
                                                                                                                                                                    502
                                                                                                                                                                    503 \fi
                                                                                                                                                                    504 }
\HOLOGO@discretionary
                                                                                                                                                                    505 \def\HOLOGO@discretionary{%
                                                                                                                                                                                                 \verb|\line| Itx@ifundefined{HoLogoOpt@discretionarybreak@\HOLOGO@name}{ % and fine the context of the context of
                                                                                                                                                                                                         \label{local-problem} $$  \t @ \dots = \dots
                                                                                                                                                                    507
                                                                                                                                                                                                                    \chardef\HOLOGO@temp=\HOLOGOOPT@discretionarybreak
                                                                                                                                                                    508
                                                                                                                                                                    509
                                                                                                                                                                                                         }{%
                                                                                                                                                                                                                    \chardef\HOLOGO@temp=%
                                                                                                                                                                    510
                                                                                                                                                                                                                            \csname HoLogoOpt@break@\HOLOGO@name\endcsname
                                                                                                                                                                    511
                                                                                                                                                                    512
                                                                                                                                                                                                        }%
                                                                                                                                                                    513 }{%
                                                                                                                                                                                                          \chardef\HOLOGO@temp=%
                                                                                                                                                                    514
                                                                                                                                                                                                                    \csname HoLogoOpt@discretionarybreak@\HOLOGO@name\endcsname
                                                                                                                                                                    515
                                                                                                                                                                    516
                                                                                                                                                                    517
                                                                                                                                                                                                \ifcase\HOLOGO@temp
                                                                                                                                                                    518
                                                                                                                                                                                                \else
                                                                                                                                                                                                    \-%
                                                                                                                                                                    519
                                                                                                                                                                   520 \fi
                                                                                                                                                                   521 }
                                           \HOLOGO@mbox
                                                                                                                                                                    522 \def\HOLOGO@mbox#1{%
                                                                                                                                                                                                 \ltx@ifundefined{HoLogoOpt@break@\HOLOGO@name}{%
                                                                                                                                                                                                         \chardef\HOLOGO@temp=\HOLOGOOPT@hyphenbreak
                                                                                                                                                                    524
                                                                                                                                                                                                }{%
                                                                                                                                                                    525
                                                                                                                                                                                                         \chardef\HOLOGO@temp=%
                                                                                                                                                                   526
                                                                                                                                                                                                                    \csname HoLogoOpt@break@\HOLOGO@name\endcsname
                                                                                                                                                                   527
                                                                                                                                                                    528 }%
                                                                                                                                                                                                \ifcase\HOLOGO@temp
                                                                                                                                                                    529
                                                                                                                                                                                                       \t 0 \times \#1
                                                                                                                                                                    530
                                                                                                                                                                    531 \else
                                                                                                                                                                    532
                                                                                                                                                                                                          #1%
                                                                                                                                                                    533 \fi
                                                                                                                                                                   534 }
```

2.6 Font support

```
#1:
                                                                                          logo name
                     \HoLogoFont@font
                                                                         #2:
                                                                                          font short name
                                                                          #3:
                                                                            535 \def\HoLogoFont@font#1#2#3{\%}
                                                                            536
                                                                                        \begingroup
                                                                            537
                                                                                            \ltx@IfUndefined{HoLogoFont@logo@#1.#2}{%
                                                                            538
                                                                                                 \ltx@IfUndefined{HoLogoFont@font@#2}{%
                                                                            539
                                                                                                    \QPackageWarning{hologo}{%
                                                                            540
                                                                                                        Missing font \#2' for logo \#1'\%
                                                                                                   }%
                                                                            541
                                                                                                    #3%
                                                                            542
                                                                            543
                                                                                                }{%
                                                                            544
                                                                                                   \csname HoLogoFont@font@#2\endcsname{#3}%
                                                                            545
                                                                                                }%
                                                                            546
                                                                                            }{%
                                                                            547
                                                                                                \csname HoLogoFont@logo@#1.#2\endcsname{#3}%
                                                                                            }%
                                                                            549
                                                                                        \endgroup
                                                                            550 }
                       \HoLogoFont@Def
                                                                            551 \def\HoLogoFont@Def#1{%
                                                                                        \verb|\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\e
                                                                            553 }
          \HoLogoFont@LogoDef
                                                                            554 \def\HoLogoFont@LogoDef#1#2{%
                                                                                        \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 \t \
                                                                            559 \label{ltx@IfUndefined{rm}{%}}
                                                                            560 }{%
                                                                            561
                                                                                            \HoLogoFont@Def\{rm\}{\rm}\%
                                                                            562 }%
                                                                            563 }{%
                                                                                       \HoLogoFont@Def{rm}{\rmfamily}%
                                                                            565 }
             \HoLogoFont@font@sf
                                                                            566 \ltx@IfUndefined{sffamily}{%
                                                                            567 \ltx@IfUndefined{sf}{%
                                                                            568 }{%
                                                                                            \HoLogoFont@Def{sf}{\sf}%
                                                                            569
                                                                            570 }%
                                                                            571 }{%
                                                                            573 }
```

\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}{%
                                                                                                                                                                                                     \kern-.05em%
                                                                                                                                                                                                     \hbox{\%}
                                                                                                                                                                                                              \modeline \mod
                                                                                                                                                                                                              \csname S@\f@size\endcsname
                                                                                                                                                                                                              \fontsize\sf@size\z@
                                                                                                                                                                                                              \math@fontsfalse
                                                                                                                                                                                                              \selectfont
                                                                                                                                                                                                           I%
                                                                                                                                                                                                              \kern-.025em%
                                                                                                                                                                                                            В
                                                                                                                                                                                                   }%
                                                                                                                                                                                                     \kern-.08em%
                                                                                                                                                                                                    \-%
                                                                                                                                                                                                   \TeX
                                                                                                                                                              574 \ltx@IfUndefined{selectfont}{%
                                                                                                                                                             575 \ltx@IfUndefined{tensc}{%
                                                                                                                                                                                                  \font\tensc=cmcsc10\relax
                                                                                                                                                              576
                                                                                                                                                              577 }{}%
                                                                                                                                                              578 \HoLogoFont@Def{bibsf}{\tensc}%
                                                                                                                                                              579 }{%
                                                                                                                                                              580 \HoLogoFont@Def{bibsf}{%
                                                                                                                                                                                                   $\mathsurround=0pt$%
                                                                                                                                                              581
                                                                                                                                                                                                    \csname S@\f@size\endcsname
                                                                                                                                                              582
                                                                                                                                                                                                    \fontsize\sf@size{0pt}\%
                                                                                                                                                              583
                                                                                                                                                                                                    \math@fontsfalse
                                                                                                                                                              584
                                                                                                                                                              585
                                                                                                                                                                                                     \selectfont
                                                                                                                                                              586 }%
                                                                                                                                                              587 }
             \HoLogoFont@font@sc
                                                                                                                                                              588 \ltx@IfUndefined{scshape}{%
                                                                                                                                                                                        \ltx@IfUndefined{tensc}{%
                                                                                                                                                                                                   \font\tensc=cmcsc10\relax
                                                                                                                                                              591
                                                                                                                                                                                          }{}%
                                                                                                                                                                                          \label{logoFont@Def{sc}{tensc}} $$ \end{center} $$ \end{cent
                                                                                                                                                              592
                                                                                                                                                              593 }{%
                                                                                                                                                              595 }
           \HoLogoFont@font@sy
                                                                                                                                                              596 \text{ltx@IfUndefined{usefont}}{\%}
                                                                                                                                                                                          \label{ltxQIfUndefined} $$ \prod_{x \in \mathbb{R}^{+}} {\mathbb{C}^{+}} 
                                                                                                                                                              597
                                                                                                                                                                                          }{%
                                                                                                                                                              598
                                                                                                                                                                                                   \label{logoFont@Def{sy}{tensy}} $$ \end{center} % $$ \end{center} $$ \end{ce
                                                                                                                                                              599
                                                                                                                                                              600 }%
                                                                                                                                                              601 }{%
                                                                                                                                                                                           \HoLogoFont@Def{sy}{%
                                                                                                                                                              602
                                                                                                                                                                                                   \usefont{OMS}{cmsy}{m}{n}%
                                                                                                                                                              604
                                                                                                                                                                                      }%
                                                                                                                                                              605 }
\HoLogoFont@font@logo
                                                                                                                                                              606 \begingroup
                                                                                                                                                              607 \def\x{LaTeX2e}\%
                                                                                                                                                              608 \expandafter\endgroup
                                                                                                                                                              609 \fmtname\x
                                                                                                                                                              610 \t \ Oltx@IfUndefined{logofamily}{%
                                                                                                                                                                                                    \DeclareRobustCommand\logofamily{%
                                                                                                                                                              611
                                                                                                                                                              612
                                                                                                                                                                                                              \not@math@alphabet\logofamily\relax
```

```
\fontfamily{logo}%
                      614
                             \selectfont
                      615
                            }%
                      616
                      617
                           }{}%
                      618
                           \ltx@IfUndefined{logofamily}{%
                      619
                          }{%
                      620
                            \HoLogoFont@Def{logo}{\logofamily}%
                      621 }%
                      622 \else
                          \ltx@IfUndefined{tenlogo}{%
                      623
                            \font\tenlogo=logo10\relax
                      624
                      625 }{}%
                      626 \HoLogoFont@Def{logo}{\tenlogo}%
                      627 \fi
                      2.6.2 Font setup
    \hologoFontSetup
                      628 \def\hologoFontSetup{%
                      629 \let\HOLOGO@name\relax
                      630 \HOLOGO@FontSetup
                      631 }
\hologoLogoFontSetup
                      632 \def\hologoLogoFontSetup#1{%
                          \verb|\edgname{#1}| % \\
                           \ltx@IfUndefined{HoLogo@\HOLOGO@name}{%
                      634
                            \@PackageError{hologo}{%
                      635
                             Unknown logo `\HOLOGO@name'%
                      636
                            }\@ehc
                      637
                            \ltx@gobble
                      638
                      639 }{%
                            \HOLOGO@FontSetup
                      640
                      641 }%
                      642 }
\HOLOGO@FontSetup
                      643 \def\HOLOGO@FontSetup{%
                          \kvsetkeys{HoLogoFont}%
                      644
                      645 }
                      646 \def\HOLOGO@temp#1{%
                      647 \kv@define@key{HoLogoFont}{#1}{%
                            \ifx\HOLOGO@name\relax
                      648
                      649
                             \HoLogoFont@Def{#1}{##1}%
                      650
                             \HoLogoFont@LogoDef\HOLOGO@name{#1}{##1}%
                      651
                            \fi
                      652
                      653 }%
                      654 }
                      655 \HOLOGO@temp{general}
                      656 \HOLOGO@temp{sf}
                      2.7
                           Generic logo commands
                      657 \HOLOGO@IfExists\hologo{%
                      658 \@PackageError{hologo}{%
                            \string\hologo\ltx@space is already defined.\MessageBreak
                      659
                      660
                            Package loading is aborted%
                      661 }\@ehc
                      662 \HOLOGO@AtEnd
```

\fontencoding{U}%

613

```
663 }%
                                          664 \HOLOGO@IfExists\hologoRobust{%
                                                            \@PackageError{hologo}{%
                                          665
                                                                   \string\hologoRobust\ltx@space is already defined.\MessageBreak
                                                                   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 {%
                                                              \ltx@IfUndefined{ifincsname}{%
                                          677
                                          678
                                                                    \ifnum\luatexversion<36 %
                                          679
                                                                           \expandafter\ltx@gobble
                                          680
                                          681
                                                                           \expandafter\ltx@firstofone
                                          682
                                                                    \fi
                                          683
                                                                   {%
                                          684
                                                                           \begingroup
                                                                                \ifcase0%
                                          685
                                                                                            \directlua{%
                                          686
                                                                                                  if tex.enable
primitives then \%
                                          687
                                          688
                                                                                                         tex.enableprimitives('HOLOGO@', {'ifincsname'})%
                                          689
                                                                                                  else \%
                                                                                                       tex.print('1')%
                                          690
                                          691
                                                                                                  end%
                                                                                            }%
                                          692
                                                                                            \label{logo} $$ \inf_{M \to \infty} \Theta_{M}(M) = 0.000 $$ in csname \ \Omega_{M}(M) $$ in $M$ 
                                          693
                                          694
                                                                                      \verb|\expandafter|| ltx@firstofone||
                                          695
                                          696
                                                                                \else
                                          697
                                                                                      \endgroup
                                                                                      \verb|\expandafter|| ltx@gobble||
                                          698
                                          699
                                          700
                                          701
                                                                                      \global\let\ifincsname\HOLOGO@ifincsname
                                          702
                                                                                }%
                                                                           \HOLOGO@temp
                                          703
                                                                   }%
                                          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 $ }{%
                                                                           \c Molego Cs@\HOLOGO @Variant {\#1} \ends name \ltx @first of two for the context of the contex
                                          717 $
                                          718 $ }%
                                          719 $ \else
                                                                   \HOLOGO@IfExists\texorpdfstring\texorpdfstring\ltx@firstoftwo
```

```
721
                                                                                             {%
                                                                                                  \hologoRobust{#1}%
                                                                    722
                                                                    723
                                                                                                   \ltx@ifundefined{HoLogoBkm@\HOLOGO@Variant{#1}}{%
                                                                    724
                                                                    725
                                                                                                         \t \ \ltx@ifundefined{HoLogo@#1}{?#1?}{#1}\%
                                                                    726
                                                                    727
                                                                                                         \verb|\csname| HoLogoBkm@\HOLOGO@Variant{#1}\endcsname|
                                                                    728
                                                                                                         \t \
                                                                                                  }%
                                                                    729
                                                                                            }%
                                                                    730
                                                                    731 $ \fi
                                                                    732 }
                         \Hologo
                                                                    733 \def\Hologo#1{%
                                                                    734 $ \ifincsname
                                                                                            \label{logoCs@HOLOGO@Variant} $$ \operatorname{HoLogoCs@HOLOGO@Variant}{\#1}}{\%} $$
                                                                    735 $
                                                                                                     #1%
                                                                    736 $
                                                                    737 $ }{%
                                                                    738 $
                                                                                                   \verb|\csname| HoLogoCs@\HOLOGO@Variant{#1}\endcsname \\| ltx@secondoftwo| lt
                                                                    739 $ }%
                                                                    740 $ \else
                                                                    741
                                                                                             \verb|\HOLOGO@IfExists| texorpdfstring| texorpdfstring| ltx@firstoftwo| in the control of the cont
                                                                    742
                                                                    743
                                                                                                   \HologoRobust{#1}%
                                                                    744
                                                                                            }{%
                                                                                                   \label{logoBkm@HOLOGO@Variant} $$  \| \mathbb{H}_{\infty} \|_{\infty} \leq \| \mathbb{H}_{\infty} \|_{\infty} . $$
                                                                    745
                                                                                                        \label{logo} $$ \operatorname{Iltx@ifundefined{HoLogo@#1}{?#1?}{\#1}} $$
                                                                    746
                                                                    747
                                                                                                         \csname HoLogoBkm@\HOLOGO@Variant{#1}\endcsname
                                                                    748
                                                                                                         \ltx@secondoftwo
                                                                    749
                                                                    750
                                                                    751
                                                                                            }%
                                                                    752 $ \fi
                                                                    753 }
\hologoVariant
                                                                    754 \def\hologoVariant#1#2{%
                                                                    755 \ifx\relax#2\relax
                                                                    756
                                                                                           \hologo{#1}%
                                                                    757 \else
                                                                    758 $\ifincsname
                                                                                                   \ltx@ifundefined{HoLogoCs@#1@#2}{%
                                                                    759 $
                                                                    760 $
                                                                                                         #1%
                                                                    761 $
                                                                                                   }{%
                                                                                                         \csname HoLogoCs@#1@#2\endcsname\ltx@firstoftwo
                                                                    762 $
                                                                    763 $
                                                                                                   7%
                                                                    764 $
                                                                                              \else
                                                                                                   \HOLOGO@IfExists\texorpdfstring\texorpdfstring\ltx@firstoftwo
                                                                    765
                                                                    766
                                                                    767
                                                                                                         \hologoVariantRobust{#1}{#2}%
                                                                    768
                                                                                                         \label{logoBkm@#1@#2}{\%} $$ \operatorname{Condense} HoLogoBkm@#1@#2}{\%} $$
                                                                    769
                                                                                                              \label{logo} $$ \operatorname{Itx@ifundefined{HoLogo@#1}{?#1?}{\#1}} $$
                                                                    770
                                                                    771
                                                                                                               \csname HoLogoBkm@#1@#2\endcsname
                                                                    772
                                                                                                               \ltx@firstoftwo
                                                                    773
                                                                                                        }%
                                                                    774
                                                                    775
                                                                                                  }%
                                                                    776 $ \fi
                                                                    777 \fi
                                                                    778 }
```

\HologoVariant

```
779 \def\HologoVariant#1#2{\%
780 \int {relax #2 relax}
       \Hologo{#1}%
781
782 \else
783 $ \ifincsname
         \label{logoCs0} $$ \prod_{i=1}^{n} HoLogoCs0\#10\#2}{\%}
784 $
785 $
          #1%
         }{%
786 $
787 $
          \csname HoLogoCs@#1@#2\endcsname\ltx@secondoftwo
         }%
788 $
789 $
       \else
790
         \HOLOGO@IfExists\texorpdfstring\texorpdfstring\ltx@firstoftwo
791
792
          \HologoVariantRobust\{#1\}\{#2\}\%
793
        }{%
          \label{logoBkm@#1@#2}{\%} $$ \operatorname{LogoBkm@#1@#2}{\%} $$
794
            \label{logo} $$ \operatorname{Itx}\operatorname{Gifundefined}(HoLogo@\#1)_{?\#1?}_{\#1}\%$ $
795
796
            \csname HoLogoBkm@#1@#2\endcsname
797
            \ltx@secondoftwo
798
          }%
799
800
        }%
801 $ \fi
802 \fi
803 }
804 \catcode`\$=3 %
```

2.7.2 \hologoRobust and friends

\hologoRobust

```
805 \t \ \ltx@IfUndefined{protected}{%
806 \ltx@IfUndefined{DeclareRobustCommand}{%
807
     \def\hologoRobust#1%
808 }{%
     \DeclareRobustCommand*\hologoRobust[1]%
809
810 }%
811 }{%
812 \protected\def\hologoRobust#1%
813 }%
814 {%
    \edef\HOLOGO@name{#1}%
815
    \label{logo} $$ \operatorname{Int}\operatorname{Indefined}(HoLogo@\HOLOGO@Variant\HOLOGO@name)_{%} $$
816
817
     \@PackageError{hologo}{%
       Unknown logo `\HOLOGO@name'%
818
     819
     ?\HOLOGO@name?%
820
821 }{%
     \ltx@IfUndefined{ver@tex4ht.sty}{%
822
       \HoLogoFont@font\HOLOGO@name{general}{%
823
        \csname HoLogo@\HOLOGO@Variant\HOLOGO@name\endcsname
824
825
        \ltx@firstoftwo
826
       }%
827
     }{%
       \ltx@IfUndefined{HoLogoHtml@\HOLOGO@Variant\HOLOGO@name}{%
828
        \HOLOGO@name
829
830
        \csname HoLogoHtml@\HOLOGO@Variant\HOLOGO@name\endcsname
831
832
        \ltx@firstoftwo
       }%
833
834
     }%
```

```
835 }%
                                                                                       836 }
                        \HologoRobust
                                                                                       837 \ltx@IfUndefined{protected}{%
                                                                                                        \verb|\line| Let Command| \end{the letter} with the letter of the letter o
                                                                                                             \def\HologoRobust#1%
                                                                                       839
                                                                                       840 }{%
                                                                                       841
                                                                                                             \verb|\DeclareRobustCommand*| HologoRobust[1]%|
                                                                                       842 }%
                                                                                       843 }{%
                                                                                       844 \protected\def\HologoRobust#1%
                                                                                       845 }%
                                                                                       846 {%
                                                                                                        \verb|\edgname{#1}| %
                                                                                       847
                                                                                                        \label{logo} $$ \operatorname{Int}\operatorname{Indefined}(HoLogo@\HOLOGO@Variant\HOLOGO@name)_{%} $$
                                                                                       848
                                                                                                              \verb|\QPackageError{hologo}|{ \%}
                                                                                       849
                                                                                                                    Unknown logo `\HOLOGO@name'%
                                                                                       850
                                                                                                             }\@ehc
                                                                                       851
                                                                                                              ?\HOLOGO@name?%
                                                                                       852
                                                                                       853
                                                                                                        }{%
                                                                                                               \ltx@IfUndefined{ver@tex4ht.sty}{%
                                                                                       854
                                                                                                                    \HoLogoFont@font\HOLOGO@name{general}{%
                                                                                       855
                                                                                       856
                                                                                                                         \csname HoLogo@\HOLOGO@Variant\HOLOGO@name\endcsname
                                                                                       857
                                                                                                                         \ltx@secondoftwo
                                                                                                                  }%
                                                                                       858
                                                                                       859
                                                                                                             }{%
                                                                                                                    \ltx@IfUndefined{HoLogoHtml@\HOLOGO@Variant\HOLOGO@name}{%
                                                                                       860
                                                                                                                         \expandafter\HOLOGO@Uppercase\HOLOGO@name
                                                                                       861
                                                                                       862
                                                                                                                    }{%
                                                                                       863
                                                                                                                         \csname HoLogoHtml@\HOLOGO@Variant\HOLOGO@name\endcsname
                                                                                                                         \ltx@secondoftwo
                                                                                       864
                                                                                       865
                                                                                                                   }%
                                                                                       866
                                                                                                             }%
                                                                                       867
                                                                                                        }%
                                                                                       868 }
 \hologoVariantRobust
                                                                                       869 \ltx@IfUndefined{protected}{%
                                                                                                        \ltx@IfUndefined{DeclareRobustCommand}{%
                                                                                       871
                                                                                                              \def\hologoVariantRobust#1#2\%
                                                                                       872
                                                                                                              \verb|\DeclareRobustCommand*| hologoVariantRobust[2]\%|
                                                                                       873
                                                                                       874 }%
                                                                                       875 }{%
                                                                                       876 \protected\def\hologoVariantRobust#1#2%
                                                                                       877 }%
                                                                                       878 {%
                                                                                       879
                                                                                                        \begingroup
                                                                                                              \hologoLogoSetup{#1}{variant={#2}}%
                                                                                       880
                                                                                                               \hologoRobust{#1}%
                                                                                       881
                                                                                       882
                                                                                                        \endgroup
                                                                                       883 }
\HologoVariantRobust
                                                                                       884 \ltx@IfUndefined{protected}{%
                                                                                                       \ltx@IfUndefined{DeclareRobustCommand}{%
                                                                                       885
                                                                                                             \def\HologoVariantRobust#1#2%
                                                                                       886
                                                                                                             \verb|\DeclareRobustCommand*| HologoVariantRobust[2]| % In the command is a substitution of the command in the command is a substitution of the command in the command is a substitution of the command in the command is a substitution of the command is a substitution 
                                                                                       889 }%
                                                                                       890 }{%
```

```
892 }%
                                                                      893 {%
                                                                               \begingroup
                                                                      894
                                                                                   \hologoLogoSetup{#1}{variant={#2}}%
                                                                      895
                                                                                   \HologoRobust{#1}%
                                                                      897
                                                                                \endgroup
                                                                      898 }
                                   \hologorobust Macro \hologorobust is only defined for compatibility. Its use is deprecated.
                                                                      899 \def\hologorobust{\hologoRobust}
                                                                    2.8
                                                                               Helpers
                                                                   Macro \HOLOGO@Uppercase is restricted to \uppercase, because plain TFX or
                \HOLOGO@Uppercase
                                                                    iniTeX do not provide \MakeUppercase.
                                                                      900 \def\HOLOGO@Uppercase#1{\uppercase{#1}}
      \HOLOGO@PdfdocUnicode
                                                                      901 \def\HOLOGO@PdfdocUnicode{%
                                                                      902 \ifx\ifHy@unicode\iftrue
                                                                                   \expandafter\ltx@secondoftwo
                                                                      903
                                                                      904 \else
                                                                                   \expandafter\ltx@firstoftwo
                                                                      905
                                                                      906 \fi
                                                                      907 }
                          \HOLOGO@Math
                                                                      908 \def\HOLOGO@MathSetup{%
                                                                      909 \mathsurround0pt\relax
                                                                      910 \HOLOGO@IfExists\f@series{%
                                                                                   \footnote{if b\expandafter\ltx@car\footnote{if b\expandafter\ltx@car\foo
                                                                      911
                                                                                      \csname boldmath\endcsname
                                                                      912
                                                                                \fi
                                                                      913
                                                                      914 }{}%
                                                                      915 }
            \HOLOGO@TempDimen
                                                                      916 \dimendef\HOLOGO@TempDimen=\ltx@zero
   \HOLOGO@NegativeKerning
                                                                      917 \def\HOLOGO@NegativeKerning#1{%
                                                                      918 \begingroup
                                                                                   \HOLOGO@TempDimen=0pt\relax
                                                                      919
                                                                                    \comma@parse@normalized{#1}{\%}
                                                                      920
                                                                      921
                                                                                       \ifdim\HOLOGO@TempDimen=0pt %
                                                                      922
                                                                                          \expandafter\HOLOGO@@NegativeKerning\comma@entry
                                                                      923
                                                                                       \fi
                                                                                       \ltx@gobble
                                                                      924
                                                                      925
                                                                                    \ifdim\HOLOGO@TempDimen<0pt %
                                                                      926
                                                                      927
                                                                                       \kern\HOLOGO@TempDimen
                                                                                   \fi
                                                                      928
                                                                                \endgroup
                                                                      929
                                                                      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}%
                                                                               \advance\HOLOGO@TempDimen by -\wd\ltx@zero
                                                                      935
                                                                      936 }
```

891 \protected\def\HologoVariantRobust#1#2%

```
\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}{%
                              \t \
                        947
                        948
                               \ltx@mbox{%
                                \mathsurround=0pt\relax
                        949
                        950
                        951
                                   \ltx@IfUndefined{sf@size}{%
                        952
                                    \mathbf{41}%
                        953
                                   }{%
                        954
                                    \mbox{%}
                        955
                                      \fontsize\sf@size\{0pt\}\selectfont
                        956
                        957
                                    }%
                        958
                        959
                                   }%
                        960
                                 }%
                        961
                                $%
                        962
                               }%
                        963
                              }{%
                               \t \mbox{} 
                        964
                                \mathsurround=0pt\relax
                        965
                                $_{\text{#1}}$%
                        966
                               }%
                        967
                             }%
                        968
                        969 }{%
                              \textsubscript{#1}%
                        970
                        971
                            }%
                        972 }
                             T<sub>E</sub>X and friends
                       2.9.1 TeX
         \HoLogo@TeX Source: LATEX 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%
                              \label{logo} $$\HOLOGO@Span{e}{\%}$
                        980
```

E%

}%

Х%

981

982

983

```
984 }%
                                                                                                                                                                            985 }
                                                                        \HoLogoCss@TeX
                                                                                                                                                                            986 \def\HoLogoCss@TeX{%
                                                                                                                                                                            987 \Css{%
                                                                                                                                                                            988
                                                                                                                                                                                                          span.HoLogo-TeX span.HoLogo-e{%
                                                                                                                                                                                                                 position:relative;%
                                                                                                                                                                           989
                                                                                                                                                                                                                 top:.5ex;%
                                                                                                                                                                            990
                                                                                                                                                                                                                 margin-left:\text{-.}1667em;\%
                                                                                                                                                                            991
                                                                                                                                                                                                                 margin-right:-.125em;%
                                                                                                                                                                            992
                                                                                                                                                                                                         }%
                                                                                                                                                                            993
                                                                                                                                                                            994 }%
                                                                                                                                                                                                  \Css{%
                                                                                                                                                                            995
                                                                                                                                                                                                          a span.HoLogo-TeX span.HoLogo-e{%
                                                                                                                                                                            997
                                                                                                                                                                                                                 text-decoration:none;%
                                                                                                                                                                            998
                                                                                                                                                                                                         }%
                                                                                                                                                                                                  }%
                                                                                                                                                                           999
                                                                                                                                                                                                  \global\let\HoLogoCss@TeX\relax
                                                                                                                                                                       1000
                                                                                                                                                                       1001 }
                                                                                                                                                                      2.9.2 plain T<sub>E</sub>X
                                                                                                                                                                    Source: "The TFXbook"
                                \HoLogo@plainTeX@space
                                                                                                                                                                       1002 \def\HoLogo@plainTeX@space#1{%
                                                                                                                                                                                                 \label{logo} $$\HOLOGO@mbox{\#1{p}{P}}\hOLOGO@space\hologo{TeX}}% $$
                                                                                                                                                                       1004 }
                    \HoLogoCs@plainTeX@space
                                                                                                                                                                       1005 \ensuremath{\mbox{\mbox{$1$}}} 1005 \ensuremath{\mbox{\mbox{$4$}}} 1005 \ensuremath{\mbox{$4$}} 
         \HoLogoBkm@plainTeX@space
                                                                                                                                                                       1006 \ensuremath{\mbox{\sc hoLogoBkm@plainTeX@space\#1{\%}}}
                                                                                                                                                                      1007
                                                                                                                                                                                                  #1{p}{P}lain \norm{TeX}%
                                                                                                                                                                      1008 }
       \HoLogoHtml@plainTeX@space
                                                                                                                                                                       1009 \def\HoLogoHtml@plainTeX@space#1{%
                                                                                                                                                                      1010 \#1{p}{P}lain \hologo{TeX}%
                                                                                                                                                                      1011 }
                       \HoLogo@plainTeX@hyphen
                                                                                                                                                                       1012 \def\HoLogo@plainTeX@hyphen#1{%
                                                                                                                                                                      1013 \quad \verb|\HOLOGO@mbox{#1{p}{P}} | HOLOGO@hyphen\hologo{TeX} \% |
                                                                                                                                                                       1014 }
          \HoLogoCs@plainTeX@hyphen
                                                                                                                                                                       1015 \ensuremath{\mbox{\mbox{$1$}}} 1015 \ensuremath{\mbox{\mbox{$4$}}} 1015 \ensuremath{\mbox{$4$}} 
\HoLogoBkm@plainTeX@hyphen
                                                                                                                                                                       1016 \ensuremath{\mbox{\mbox{$1016$}}} \ensuremath{\mbox{\mbox{$16$}}} \ensuremath{\mbox{$16$}} \ensuremath{\mbox{$16$}
                                                                                                                                                                      1017 #1{p}{P}lain-\hologo{TeX}%
                                                                                                                                                                      1018 }
\HoLogoHtml@plainTeX@hyphen
                                                                                                                                                                      1019 \def\HoLogoHtml@plainTeX@hyphen#1{%
                                                                                                                                                                       1020 #1{p}{P}lain-\hologo{TeX}%
                                                                                                                                                                       1021 }
\HoLogo@plainTeX@runtogether
                                                                                                                                                                      1022 \def\HoLogo@plainTeX@runtogether#1{%
                                                                                                                                                                      1024 }
```

```
HoLogoCs@plainTeX@runtogether
                                                                                                                                                                                                              1025 \ensuremath{\mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox
LogoBkm@plainTeX@runtogether
                                                                                                                                                                                                               1026 \ensuremath{\mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox
                                                                                                                                                                                                              1027 #1{p}{P}lain\hologo{TeX}%
                                                                                                                                                                                                              1028 }
{f LogoHtml@plainTeX@runtogether}
                                                                                                                                                                                                               1029 \ensuremath{\mbox{\sc logo}}\label{thm:constraint} 1029 \ensuremath{\mbox{\sc logo}}\label{thm:constraint} 1029 \ensuremath{\mbox{\sc logo}}\label{thm:constraint} 1029 \ensuremath{\mbox{\sc logo}}\label{thm:constraint}
                                                                                                                                                                                                              1030 \#1{p}{P}lain\hologo{TeX}%
                                                                                                                                                                                                              1031 }
                                                                                \HoLogo@plainTeX
                                                                                                                                                                                                              1032 \ensuremath{\mbox{\mbox{$1032$ \color=1000@plainTeX(\color=1000@plainTeX@space)}}}
                                                                \HoLogoCs@plainTeX
                                                                                                                                                                                                               1033 \def\HoLogoCs@plainTeX{\HoLogoCs@plainTeX@space}
                                                    \HoLogoBkm@plainTeX
                                                                                                                                                                                                              1034 \ensuremath{\mbox{\mbox{$\backslash$}}} 1034 \ensuremath{\mbox{\mbox{$\backslash$}}} HoLogoBkm@plainTeX@space} \\
                                                 \verb|\HoLogoHtml@plainTeX||
                                                                                                                                                                                                              1035 \verb|\def\HoLogoHtml@plainTeX{\HoLogoHtml@plainTeX@space}|
                                                                                                                                                                                                              2.9.3 IATEX
                                                                                                                                                                                                              Source: LATEX kernel.
                                                                                                                                                                                                                                                 \verb|\DeclareRobustCommand{\LaTeX}| \{ \% | \Command \Comman
                                                                                                                                                                                                                                                          L%
                                                                                                                                                                                                                                                           \ensuremath{\tt kern-.36em\%}
                                                                                                                                                                                                                                                           {%
                                                                                                                                                                                                                                                                     \sbox\z@ T%
                                                                                                                                                                                                                                                                     \vbox to\ht\z@{%
                                                                                                                                                                                                                                                                             \hbox{\%}
                                                                                                                                                                                                                                                                                      \check@mathfonts
                                                                                                                                                                                                                                                                                      \fontsize\sf@size\z@
                                                                                                                                                                                                                                                                                      \math@fontsfalse
                                                                                                                                                                                                                                                                                      \selectfont
                                                                                                                                                                                                                                                                                      Α%
                                                                                                                                                                                                                                                                           }%
                                                                                                                                                                                                                                                                            \vss
                                                                                                                                                                                                                                                                   }%
                                                                                                                                                                                                                                                          }%
                                                                                                                                                                                                                                                           \ensuremath{\verb|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}{%
                                                                                                                                                                                                                                                                                      \csname sevenrm\endcsname
                                                                                                                                                                                                              1044
                                                                                                                                                                                                                                                                           }{%
                                                                                                                                                                                                              1045
                                                                                                                                                                                                                                                                                      \check@mathfonts
                                                                                                                                                                                                              1046
                                                                                                                                                                                                                                                                                      \fontsize\sf@size\{0pt\}\%
                                                                                                                                                                                                              1047
```

```
\math@fontsfalse\selectfont
                                                                                       1048
                                                                                       1049
                                                                                       1050
                                                                                                                              Α%
                                                                                       1051
                                                                                                                        }%
                                                                                       1052
                                                                                                                         \vss
                                                                                       1053
                                                                                                                  }%
                                                                                       1054
                                                                                                            \endgroup
                                                                                       1055 }
                  \HoLogo@LaTeX Source: LATeX kernel.
                                                                                       1056 \ensuremath{\mbox{\sc hologo@LaTeX\#1}}\%
                                                                                       1057 \hologo{La}\%
                                                                                       1058 \kern-.15em%
                                                                                       1059 \hologo{TeX}%
                                                                                       1060 }
\HoLogoHtml@LaTeX
                                                                                       1061 \ensuremath{\mbox{\sc 1061}} \ensurema
                                                                                                            \HoLogoCss@LaTeX
                                                                                       1062
                                                                                                            \HOLOGO@Span{LaTeX}{%
                                                                                       1063
                                                                                       1064
                                                                                                                 L%
                                                                                       1065
                                                                                                                   \HOLOGO@Span{a}{%
                                                                                       1066
                                                                                                                        Α%
                                                                                       1067
                                                                                                                  }%
                                                                                       1068
                                                                                                                  \hologo{TeX}%
                                                                                       1069 }%
                                                                                       1070 }
     \HoLogoCss@LaTeX
                                                                                       1071 \def\HoLogoCss@LaTeX\{\%
                                                                                       1072 \Css{%
                                                                                                                  {\tt span.HoLogo-LaTeX\ span.HoLogo-a\{\%}
                                                                                       1073
                                                                                                                       position:relative;%
                                                                                       1074
                                                                                                                       top:-.5ex;%
                                                                                       1075
                                                                                                                       margin-left:-.36em;%
                                                                                       1076
                                                                                                                       margin-right:-.15em;%
                                                                                       1077
                                                                                                                       font-size:85\%;%
                                                                                       1078
                                                                                       1079
                                                                                                                  }%
                                                                                       1080
                                                                                                           }%
                                                                                                             \global\let\HoLogoCss@LaTeX\relax
                                                                                       1081
                                                                                       1082 }
```

2.9.4 (IA) $T_{\rm E}X$

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

```
\DeclareRobustCommand{\LaTeXTeX}{%
 (%
 \kern-.15em%
 L%
 \mbox{kern-.36em}\%
 {%
   \sbox\z@ T%
   \vbox to\ht0{%
    \hbox{\%}
     \modeline{1}{m@th$\%}
     \csname S@\f@size\endcsname
     \fontsize\sf@size\z@
     \math@fontsfalse
     \selectfont
     Α%
    }%
    \vss
```

```
}%
                                                                                    }%
                                                                                     \kern-.2em%
                                                                                    )%
                                                                                     \kern-.15em%
                                                                                     \TeX
                                                                                }
                                                                  1084 (%
                                                                                \kern-.15em%
                                                                  1085
                                                                                \hologo{La}%
                                                                  1086
                                                                                \kern-.2em%
                                                                  1087
                                                                  1088
                                                                                )%
                                                                  1089
                                                                                \kern-.15em%
                                                                  1090
                                                                                \hologo{TeX}%
                                                                  1091 }
\HoLogoBkm@LaTeXTeX
                                                                  1092 \ensuremath{\mbox{\mbox{$1$}}} 1092 \ensuremath{\mbox{$1$}} 1092 \e
                 \HoLogo@(La)TeX
                                                                  1093 \expandafter
                                                                  1094 \verb|\label{lem:logo@(La)TeX} \end{csname} \verb|\logo@(La)TeX| end{csname} \verb|\logo@(La)TeX| end{csname} \end{csname}
      \HoLogoBkm@(La)TeX
                                                                  1095 \expandafter
                                                                  1096 \let\csname HoLogoBkm@(La)TeX\endcsname\HoLogoBkm@LaTeXTeX
\verb|\HoLogoHtml@LaTeXTeX||
                                                                  1097 \def\HoLogoHtml@LaTeXTeX#1{%
                                                                                \HoLogoCss@LaTeXTeX
                                                                                \HOLOGO@Span{LaTeXTeX}{%
                                                                  1099
                                                                  1100
                                                                  1101
                                                                                    \HOLOGO@Span{L}{L}%
                                                                  1102
                                                                                    \MOLOGO@Span{a}{A}%
                                                                                    \HOLOGO@Span{ParenRight}{)}%
                                                                  1103
                                                                                    \hologo{TeX}%
                                                                  1104
                                                                  1105
                                                                               }%
                                                                  1106 }
     \label{logo} \ Kerning after opening parentheses and before closing parentheses is -0.1\,\mathrm{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{%
                                                                                \Css{%
                                                                  1110
                                                                                    {\tt span.HoLogo-LaTeXTeX}\ {\tt span.HoLogo-L\{\%}
                                                                  1111
                                                                                       margin-left:-.1em;%
                                                                  1112
                                                                  1113
                                                                                    }%
                                                                  1114 }%
                                                                  1115
                                                                                \Css{%
                                                                  1116
                                                                                    span. HoLogo-LaTeXTeX\ span. HoLogo-a\{\%
                                                                  1117
                                                                                       position:relative;%
                                                                  1118
                                                                                       top:-.5ex;%
                                                                                       margin\text{-left:-.36em;}\%
                                                                  1119
                                                                                       margin-right:-.1em;%
                                                                  1120
                                                                                       font-size:85\%;%
                                                                  1121
                                                                  1122
                                                                                   }%
                                                                  1123 }%
```

```
1124 \Css{%
                            span.HoLogo-LaTeXTeX span.HoLogo-ParenRight{%
                      1125
                              margin-right:-.15em;%
                      1126
                      1127
                      1128 }%
                      1129
                           \global\let\HoLogoCss@LaTeXTeX\relax
                      1130 }
                      2.9.5 IATEX 2<sub>E</sub>
    \HoLogo@LaTeXe Source: LATEX kernel
                      1131 \def\HoLogo@LaTeXe#1{%
                      1132 \hologo{LaTeX}%
                      1133 \kern.15em%
                      1134 \hbox{%
                      1135
                            \HOLOGO@MathSetup
                            2%
                            $_{\textstyle\varepsilon}$%
                      1137
                      1138 }%
                      1139 }
  \HoLogoCs@LaTeXe
                      1140 \ifnum64=\\^^^00040\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}%
                      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
                              \verb|\ensuremath{\text{textstyle}}| varepsilon| %
                      1166
                            }%
                      1167
                      1168 }%
                      1169 }
 \HoLogoCss@LaTeXe
                      1170 \def\HoLogoCss@LaTeXe{\%
                      1171 \Css{%
                            span.
Ho<br/>Logo-LaTeX2e span.
Ho
Logo-2{%
                      1172
                              padding-left:.15em;%
                      1173
```

```
}%
                   1174
                   1175 }%
                   1176 \Css{%
                         span.HoLogo-LaTeX2e span.HoLogo-e{%
                   1177
                   1178
                          position:relative;%
                   1179
                          top:.35ex;%
                   1180
                          text-decoration:none;%
                   1181
                         }%
                   1182 }%
                   1184 }
   \HoLogo@LaTeX2e
                   1185 \expandafter
                   \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
                   2.9.6 LATEX3
    \HoLogo@LaTeX3 Source: IATEX kernel
                   1193 \expandafter\def\csname HoLogo@LaTeX3\endcsname#1{\% ^{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 LATEXML
  \HoLogo@LaTeXML
                   1204 \def\HoLogo@LaTeXML#1{%
                   1205 \HOLOGO@mbox{%
                         \hologo{La}%
                   1206
                   1207
                         \kern-.15em%
                   1208
                         T%
                   1209
                         \kern-.1667em%
                         \lower.5ex\hbox{E}%
                   1210
                         \kern-.125em%
                   1211
                         \HoLogoFont@font{LaTeXML}{sc}{xml}%
                   1212
                   1213 }%
                   1214 }
```

```
\HoLogoHtml@pdfLaTeX
```

```
1215 \def\HoLogoHtml@LaTeXML#1{%
                  1216 \HOLOGO@Span{LaTeXML}{%
                  1217
                        \HoLogoCss@LaTeX
                  1218
                        \HoLogoCss@TeX
                        \HOLOGO@Span{LaTeX}{%
                  1219
                  1220
                         L%
                         \HOLOGO@Span{a}{%
                  1221
                  1222
                          Α%
                          }%
                  1223
                  1224
                        }%
                  1225
                         \verb|\HOLOGO@Span{TeX}{|}|
                  1226
                          T%
                  1227
                          \HOLOGO@Span{e}{%
                  1228
                           E%
                  1229
                          }%
                  1230
                         \label{lem:code} $$\Box{Span style="font-variant: small-caps;">}% $$
                  1231
                         xml%
                  1232
                         \HCode{</span>}\%
                  1233
                  1234 }%
                  1235 }
                  2.9.8 \varepsilon-T<sub>E</sub>X
    \HoLogo@eTeX Source: package etex
                  1236 \def\HoLogo@eTeX#1{%
                  1237 \ltx@mbox{%
                         \HOLOGO@MathSetup
                  1238
                         $\varepsilon$%
                  1239
                  1240
                         -%
                         \HOLOGO@NegativeKerning{-T,T-,To}%
                  1241
                         \hologo{TeX}%
                  1242
                  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{%
                  1261 -%
                  1262 \hologo{TeX}%
                  1263 }
\HoLogoHtml@eTeX
                  1264 \def\HoLogoHtml@eTeX#1{%
                  1265 \ltx@mbox{%
```

```
\HOLOGO@MathSetup
                                                                                                                              1266
                                                                                                                                                                     \varepsilon\%
                                                                                                                              1267
                                                                                                                              1268
                                                                                                                              1269
                                                                                                                                                                     \hologo{TeX}%
                                                                                                                              1270 }%
                                                                                                                              1271 }
                                                                                                                              2.9.9 iniT<sub>E</sub>X
                            \HoLogo@iniTeX
                                                                                                                              1272 \def\HoLogo@iniTeX#1{%
                                                                                                                              1273 \HOLOGO@mbox{%
                                                                                                                              1274
                                                                                                                                                               #1{i}{I}ni\hologo{TeX}%
                                                                                                                              1275 }%
                                                                                                                              1276 }
              \HoLogoCs@iniTeX
                                                                                                                              1277 \ensuremath{\mbox{\sc QiniTeX\#1{\#1{i}{I}niTeX}}}
   \HoLogoBkm@iniTeX
                                                                                                                              1278 \def\HoLogoBkm@iniTeX#1{%
                                                                                                                              1279 #1{i}{I}ni\hologo{TeX}%
                                                                                                                              1280 }
 \HoLogoHtml@iniTeX
                                                                                                                              1281 \verb|\location| 1281 \verb|\lo
                                                                                                                              2.9.10 \text{ virTeX}
                          \HoLogo@virTeX
                                                                                                                              1282 \def\HoLogo@virTeX#1{%
                                                                                                                              1283 \HOLOGO@mbox{%
                                                                                                                                                                  #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 }
\Moderate{TeX}
                                                                                                                              1291 \verb|\location| 1291 \verb|\lo
                                                                                                                              2.9.11 SliT<sub>E</sub>X
                                                                                                                              Definitions of the three variants.
\HoLogo@SLiTeX@lift
                                                                                                                              1292 \def\HoLogo@SLiTeX@lift#1{%
                                                                                                                              1293 \HoLogoFont@font{SliTeX}{rm}{%
                                                                                                                                                                     S%
                                                                                                                              1294
                                                                                                                              1295
                                                                                                                                                                     \kern-.06em%
                                                                                                                                                                     L%
                                                                                                                              1296
                                                                                                                                                                     \kern-.18em%
                                                                                                                              1297
                                                                                                                                                                     \label{logoFontQfontSliTeX} $$ \operatorname{CSliTeX}_{sc}_{i}}\% $$
                                                                                                                              1298
```

\HOLOGO@discretionary

\kern-.06em%

1299

1300

```
\hologo{TeX}%
                                                                                                                                                                        1301
                                                                                                                                                                        1302 }%
                                                                                                                                                                        1303 }
               \HoLogoBkm@SLiTeX@lift
                                                                                                                                                                        1304 \ensuremath{\mbox{\mbox{$1$}}} 1304 \ensuremath{\mbox{$1$}} 1304 \e
             \HoLogoHtml@SLiTeX@lift
                                                                                                                                                                       1305 \ensuremath{\mbox{\sc liTeX@lift\#1}}\%
                                                                                                                                                                       1306 \HoLogoCss@SLiTeX@lift
                                                                                                                                                                                                     \HOLOGO@Span{SLiTeX-lift}{%
                                                                                                                                                                       1307
                                                                                                                                                                                                               \HoLogoFont@font{SliTeX}{rm}{%
                                                                                                                                                                       1308
                                                                                                                                                                       1309
                                                                                                                                                                       1310
                                                                                                                                                                                                                        \HOLOGO@Span\{L\}\{L\}\%
                                                                                                                                                                                                                       \verb|\HOLOGO@Span{i}{i}|%
                                                                                                                                                                       1311
                                                                                                                                                                        1312
                                                                                                                                                                                                                        \hologo{TeX}%
                                                                                                                                                                       1313
                                                                                                                                                                                                              }%
                                                                                                                                                                       1314 }%
                                                                                                                                                                       1315 }
                       \HoLogoCss@SLiTeX@lift
                                                                                                                                                                        1316 \def\HoLogoCss@SLiTeX@lift{%
                                                                                                                                                                        1317
                                                                                                                                                                                                      \Css{%
                                                                                                                                                                                                               span. HoLogo-SLiTeX-lift\ span. HoLogo-L\{\%
                                                                                                                                                                       1318
                                                                                                                                                                                                                       margin-left:-.06em;%
                                                                                                                                                                       1319
                                                                                                                                                                                                                       margin-right:-.18em;%
                                                                                                                                                                       1320
                                                                                                                                                                                                              }%
                                                                                                                                                                       1321
                                                                                                                                                                       1322 }%
                                                                                                                                                                       1323
                                                                                                                                                                                                      \Css{%
                                                                                                                                                                                                              span.HoLogo-SLiTeX-lift span.HoLogo-i{%
                                                                                                                                                                       1324
                                                                                                                                                                                                                       position:relative;%
                                                                                                                                                                       1325
                                                                                                                                                                       1326
                                                                                                                                                                                                                       top:-.32ex;%
                                                                                                                                                                       1327
                                                                                                                                                                                                                       margin-right:-.06em;%
                                                                                                                                                                       1328
                                                                                                                                                                                                                       font\text{-}variant\text{:}small\text{-}caps;\%
                                                                                                                                                                       1329
                                                                                                                                                                                                              7%
                                                                                                                                                                       1330 }%
                                                                                                                                                                                                     \global\let\HoLogoCss@SLiTeX@lift\relax
                                                                                                                                                                       1331
                                                                                                                                                                       1332 }
                          \HoLogo@SliTeX@simple
                                                                                                                                                                       1333 \def\HoLogo@SliTeX@simple#1{%
                                                                                                                                                                                                     \HoLogoFont@font{SliTeX}{rm}{%
                                                                                                                                                                       1334
                                                                                                                                                                                                                \ltx@mbox{%
                                                                                                                                                                       1335
                                                                                                                                                                                                                       \HoLogoFont@font{SliTeX}{sc}{Sli}%
                                                                                                                                                                       1336
                                                                                                                                                                       1337
                                                                                                                                                                                                                \HOLOGO@discretionary
                                                                                                                                                                       1338
                                                                                                                                                                                                                \hologo{TeX}%
                                                                                                                                                                       1339
                                                                                                                                                                       1340 }%
                                                                                                                                                                        1341 }
\HoLogoBkm@SliTeX@simple
                                                                                                                                                                       1342 \ensuremath{\mbox{\mbox{$1$}}} 1342 \ensuremath{\mbox{\mbox{$4$}}} 1342 \ensuremath{\mbox{$1$}} 
\HoLogoHtml@SliTeX@simple
                                                                                                                                                                       1343 \verb|\location| let \|\location| let \| let \|\location| let \|\location| let \|\location| let \|\locati
                       \HoLogo@SliTeX@narrow
                                                                                                                                                                       1344 \def\HoLogo@SliTeX@narrow#1{\%
                                                                                                                                                                                                 \HoLogoFont@font{SliTeX}{rm}{%
                                                                                                                                                                       1345
                                                                                                                                                                                                               \t \mbox{tx@mbox{}\%}
                                                                                                                                                                       1346
                                                                                                                                                                       1347
                                                                                                                                                                                                                       \kern-.06em%
                                                                                                                                                                       1348
```

```
\HoLogoFont@font{SliTeX}{sc}{%
                             1349
                             1350
                                      \kern-.035em%
                             1351
                                      i%
                             1352
                             1353
                                     }%
                             1354
                                    }%
                             1355
                                    \HOLOGO@discretionary
                             1356
                                    \kern-.06em%
                                    \hologo{TeX}%
                             1357
                             1358 }%
                             1359 }
\HoLogoBkm@SliTeX@narrow
                             1360 \def\HoLogoBkm@SliTeX@narrow#1{SliTeX}
\HoLogoHtml@SliTeX@narrow
                             1361 \def\HoLogoHtml@SliTeX@narrow#1{\%
                                  \HoLogoCss@SliTeX@narrow
                             1362
                                  \HOLOGO@Span{SliTeX-narrow}{%
                             1363
                                    \HoLogoFont@font{SliTeX}{rm}{%
                             1364
                             1365
                                      \HOLOGO@Span{1}{1}%
                             1366
                             1367
                                      \HOLOGO@Span{i}{i}%
                             1368
                                     \hologo{TeX}%
                             1369
                                   }%
                             1370 }%
                             1371 }
 \HoLogoCss@SliTeX@narrow
                             1372 \def\HoLogoCss@SliTeX@narrow{\%
                             1373 \Css{%
                                    {\tt span.HoLogo-SliTeX-narrow\ span.HoLogo-l} \{\%
                             1374
                                     margin-left:-.06em;%
                             1375
                                     margin-right:-.035em;%
                             1376
                                     font-variant:small-caps;%
                             1377
                                   }%
                             1378
                                  }%
                             1379
                                  \Css{%
                             1380
                                    span.HoLogo-SliTeX-narrow span.HoLogo-i{%
                             1381
                                     margin-right:-.06em;%
                             1382
                                     font-variant:small-caps;%
                             1383
                                   }%
                             1384
                             1385 }%
                                  \global\let\HoLogoCss@SliTeX@narrow\relax
                             1386
                             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 \verb|\def\HoLogoBkm@SLiTeX@narrow{\HoLogoBkm@SliTeX@narrow}| \\
```

```
\HoLogoHtml@SLiTeX@narrow
                                                                                                                                                                                                                              1393 \verb|\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 \ensuremath{\mbox{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensuremath{\mbox{$1396$}}\ensu
                                                                                                                                                                                                                              Defaults.
                                                                                           \HoLogo@SLiTeX
                                                                                                                                                                                                                              1397 \def\HoLogo@SLiTeX{\HoLogo@SLiTeX@lift}
                                                          \HoLogoBkm@SLiTeX
                                                                                                                                                                                                                                1398 \def\HoLogoBkm@SLiTeX{\HoLogoBkm@SLiTeX@lift}
                                                        \verb|\HoLogoHtml@SLiTeX||
                                                                                                                                                                                                                              1399 \def\HoLogoHtml@SLiTeX{\HoLogoHtml@SLiTeX@lift}
                                                                                                \HoLogo@SliTeX
                                                                                                                                                                                                                                1400 \def\HoLogo@SliTeX{\HoLogo@SliTeX@narrow}
                                                                \HoLogoBkm@SliTeX
                                                                                                                                                                                                                              1401 \ensuremath{\mbox{\mbox{$\mbox{\mbox{$\mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$
                                                              \HoLogoHtml@SliTeX
                                                                                                                                                                                                                                1402 \verb|\def\HoLogoHtml@SliTeX{\HoLogoHtml@SliTeX@narrow}|
                                                                                                                                                                                                                              2.9.12 LuaT<sub>E</sub>X
                                                                                        \HoLogo@LuaTeX The kerning is an idea of Hans Hagen, see mailing list 'luatex at tug dot org' in
                                                                                                                                                                                                                              March\ 2010.
                                                                                                                                                                                                                              1403 \ensuremath{\mbox{\sc 1403}}\ensuremath{\mbox{\sc 1
                                                                                                                                                                                                                              1404 \HOLOGO@mbox{%
                                                                                                                                                                                                                              1405
                                                                                                                                                                                                                                                                                \HOLOGO@NegativeKerning{aT,oT,To}%
                                                                                                                                                                                                                              1406
                                                                                                                                                                                                                                                                                \hologo{TeX}%
                                                                                                                                                                                                                              1407
                                                                                                                                                                                                                              1408 }%
                                                                                                                                                                                                                                1409 }
                                                    \HoLogoHtml@LuaTeX
                                                                                                                                                                                                                              1410 \verb|\location| 1410 \verb|\lo
                                                                                                                                                                                                                              2.9.13 LuaIATEX
                                                                        \HoLogo@LuaLaTeX
                                                                                                                                                                                                                              1411 \def\HoLogo@LuaLaTeX#1{%
                                                                                                                                                                                                                              1412 \HOLOGO@mbox{%
                                                                                                                                                                                                                                                                         Lua%
                                                                                                                                                                                                                                                                         \hologo{LaTeX}%
                                                                                                                                                                                                                              1415 }%
                                                                                                                                                                                                                              1416 }
                                    \HoLogoHtml@LuaLaTeX
                                                                                                                                                                                                                              1417 \verb|\location| let\hoLogo\ CluaLaTeX\ HoLogo\ CluaLaTeX \\
```

2.9.14 X_HT_EX, X_HI_AT_EX

\HOLOGO@IfCharExists

```
1418 \ifluatex
     1419
1420
     \else
       \def\HOLOGO@IfCharExists#1{%
1421
         \ifnum
1422
          \directlua{%
1423
            if luaotfload and luaotfload.aux then
1424
              if luaotfload.aux.font_has_glyph(%
1425
                   font.current(), \number#1) then %
1426
1427
         tex.print("1") %
1428
        end %
      elseif font and font.<br/>fonts and font.<br/>current then \%
1429
             local f = font.fonts[font.current()]%
1430
             if f.characters and f.characters[\number\#1] then %
1431
              tex.print("1")%
1432
             end %
1433
            end%
1434
          }0=\ltx@zero
1435
          \expandafter\ltx@secondoftwo
1436
1437
          \expandafter\ltx@firstoftwo
1438
1439
         \fi
       }%
1440
     \fi
1441
1442 \fi
1443 \ltx@IfUndefined{HOLOGO@IfCharExists}{%
     \def\HOLOGO@@IfCharExists#1{%
1444
       \begingroup
1445
         \tracinglostchars=\ltx@zero
1446
         \setbox\ltx@zero=\hbox{%
1447
          \kern7sp\char#1\relax
1448
1449
          \ifnum\lastkern>\ltx@zero
1450
            \expandafter\aftergroup\csname iffalse\endcsname
1451
          \else
            \expandafter\aftergroup\csname iftrue\endcsname
1452
          \fi
1453
        }%
1454
        % \if{true|false} from \aftergroup
1455
         \endgroup
1456
1457
         \expandafter\ltx@firstoftwo
1458
1459
         \endgroup
1460
         \expandafter\ltx@secondoftwo
1461
       \fi
1462
     7%
1463
      \ifxetex
       \ltx@IfUndefined{XeTeXfonttype}{}{%
1464
         \ltx@IfUndefined{XeTeXcharglyph}{}{%
1465
          \def\HOLOGO@IfCharExists#1{%
1466
1467
            \ifnum\XeTeXfonttype\font>\ltx@zero
             \expandafter\ltx@firstofthree
1468
            \else
1469
1470
             \expandafter\ltx@gobble
1471
            \fi
1472
            {%
1473
             \ifnum\XeTeXcharglyph#1>\ltx@zero
               \verb|\expandafter|| ltx@firstoftwo||
1474
             \else
1475
               \expandafter\ltx@secondoftwo
1476
1477
```

```
}%
             1478
                        \HOLOGO@@IfCharExists{#1}%
             1479
             1480
                      }%
             1481
                   }%
             1482
             1483
                  \fi
             1484 }{}
             1485 \ \textbf{Ltx@ifundefined{HOLOGO@IfCharExists}{\%}}
                  1486
                    \let\HOLOGO@IfCharExists\HOLOGO@@IfCharExists
             1487
                  \else
             1488
                    \def\HOLOGO@IfCharExists#1{%
             1489
                     \ifnum#1>255 %
             1490
                      \expandafter\ltx@fourthoffour
             1491
             1492
                     \HOLOGO@@IfCharExists{#1}%
             1493
             1494
                   }%
             1495 \fi
             1496 }{}
\HoLogo@Xe Source: package dtklogos
             1497 \def\HoLogo@Xe#1{%
             1498
                  Х%
                  \kern-.1em\relax
             1499
                  \HOLOGO@IfCharExists{"018E}{%
             1500
             1501
                   1502
                   \verb|\chardef| HOLOGO@choice= \\| ltx@zero| \\
             1503
             1504
                   \ifdim\fontdimen\ltx@one\font>0pt %
                     \ltx@IfUndefined{rotatebox}{%
             1505
                      \ltx@IfUndefined{pgftext}{%
             1506
             1507
                       \ltx@IfUndefined{psscalebox}{%
                         \ltx@IfUndefined{HOLOGO@ScaleBox@\hologoDriver}{%
             1508
             1509
                          \chardef\HOLOGO@choice=4 %
             1510
             1511
                         }%
             1512
                       }{%
                         \chardef\HOLOGO@choice=3 %
             1513
             1514
                       }%
                      }{%
             1515
                       \chardef\HOLOGO@choice=2 %
             1516
                      }%
             1517
                     }{%
             1518
             1519
                      \chardef\HOLOGO@choice=1 %
             1520
             1521
                     \ifcase\HOLOGO@choice
             1522
                      \HOLOGO@WarningUnsupportedDriver{Xe}%
             1523
                      е%
                     \or % 1: \rotatebox
             1524
             1525
                      \begingroup
                       \t \mathbb{1} \end{1} in $\mathbb{E}} \%
             1526
                       \ltx@LocDimenA=\dp\ltx@zero
             1527
             1528
                       \advance\ltx@LocDimenA by -.5ex\relax
                       \raise\ltx@LocDimenA\box\ltx@zero
             1529
             1530
                      \endgroup
             1531
                     \or % 2: \pgftext
             1532
                      \lower.5ex\hbox{%
             1533
                        \pgfpicture
             1534
                         \protect{pgftext[rotate=180]{E}}
             1535
                        \endpgfpicture
                      }%
             1536
                     \or % 3: \psscalebox
             1537
                      \begingroup
             1538
```

```
\label{ltx@LocDimenA=dp} $$ \prod_{x\in X} dp \leq C
                                                                                    1540
                                                                                                                                      \advance\ltx@LocDimenA by -.5ex\relax
                                                                                    1541
                                                                                                                                      \label{ltx@LocDimenAbox\ltx@zero} $$ \arrowvert and $$\arrowvert and $$ \arrowvert
                                                                                    1542
                                                                                    1543
                                                                                                                                \endgroup
                                                                                    1544
                                                                                                                          \or % 4: \HOLOGO@PointReflectBox
                                                                                    1545
                                                                                                                                \label{lower.5exhbox{HOLOGO@PointReflectBox{E}}} % $$ \operatorname{LOGO@PointReflectBox{E}} % $$ \operatorname{LOGO
                                                                                    1546
                                                                                                                                \@PackageError{hologo}{Internal error (choice/it}\@ehc
                                                                                   1547
                                                                                                                          \fi
                                                                                   1548
                                                                                                                    \else
                                                                                   1549
                                                                                                                          \ltx@IfUndefined{reflectbox}{%
                                                                                   1550
                                                                                                                                \ltx@IfUndefined{pgftext}{%
                                                                                   1551
                                                                                                                                      \ltx@IfUndefined{psscalebox}{%
                                                                                   1552
                                                                                                                                             \ltx@IfUndefined{HOLOGO@ScaleBox@\hologoDriver}{%
                                                                                    1553
                                                                                    1554
                                                                                                                                                   \chardef\HOLOGO@choice=4 %
                                                                                    1555
                                                                                                                                            }%
                                                                                   1556
                                                                                                                                      }{%
                                                                                   1557
                                                                                   1558
                                                                                                                                             \c \chardef\HOLOGO@choice=3 %
                                                                                                                                      }%
                                                                                   1559
                                                                                                                                }{%
                                                                                    1560
                                                                                                                                       \chardef\HOLOGO@choice=2 %
                                                                                    1561
                                                                                                                                }%
                                                                                    1562
                                                                                                                          }{%
                                                                                    1563
                                                                                    1564
                                                                                                                                \chardef\HOLOGO@choice=1 %
                                                                                    1565
                                                                                    1566
                                                                                                                          \ifcase\HOLOGO@choice
                                                                                    1567
                                                                                                                                \HOLOGO@WarningUnsupportedDriver{Xe}%
                                                                                   1568
                                                                                                                               е%
                                                                                                                          \or % 1: reflectbox
                                                                                    1569
                                                                                    1570
                                                                                                                                \lower.5ex\hbox{%
                                                                                   1571
                                                                                                                                      \rcle E}\%
                                                                                                                               }%
                                                                                    1572
                                                                                                                          \or % 2: \pgftext
                                                                                    1573
                                                                                    1574
                                                                                                                                \lower.5ex\hbox{%
                                                                                    1575
                                                                                                                                      \pgfpicture
                                                                                                                                             \pgftransformxscale{-1}%
                                                                                    1576
                                                                                    1577
                                                                                                                                             \pgftext{E}%
                                                                                    1578
                                                                                                                                      \endpgfpicture
                                                                                                                               }%
                                                                                    1579
                                                                                                                          \or % 3: \psscalebox
                                                                                    1580
                                                                                                                                \lower.5ex\hbox{%
                                                                                    1581
                                                                                    1582
                                                                                                                                      \psscalebox{-1 1}{E}%
                                                                                    1583
                                                                                                                               }%
                                                                                    1584
                                                                                                                          \or % 4: \HOLOGO@Reflectbox
                                                                                    1585
                                                                                                                                \lower.5ex\hbox{%
                                                                                    1586
                                                                                                                                      \HOLOGO@ReflectBox{E}%
                                                                                    1587
                                                                                                                               }%
                                                                                    1588
                                                                                                                                \@PackageError{hologo}{Internal error (choice/up)}\@ehc
                                                                                   1589
                                                                                    1590
                                                                                                                          \fi
                                                                                                                  \fi
                                                                                    1591
                                                                                   1592 }%
                                                                                    1593 }
\HoLogoHtml@Xe
                                                                                    1594 \def\HoLogoHtml@Xe#1{%
                                                                                                           \HoLogoCss@Xe
                                                                                                            \verb|\HOLOGO@Span{Xe}{|} %
                                                                                   1596
                                                                                                                  Х%
                                                                                   1597
                                                                                                                   \HOLOGO@Span{e}{%
                                                                                   1598
                                                                                                                          \HCode{&\ltx@hashchar x018e;}%
                                                                                    1599
```

 $\t \mathbb{L} \mathbb{L}^2 = \mathbb{L}^2 \mathbb{L}^2$

1539

```
}%
                        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 \verb| \global\et\HoLogoCss@Xe\relax| \\
                        1612 }
      \HoLogo@XeTeX
                        1613 \def\HoLogo@XeTeX#1{%
                        1614 \hologo{Xe}%
                        1615 \kern-.15em\relax
                        1616 \hologo{TeX}%
                        1617 }
  \verb|\HoLogoHtml@XeTeX||
                        1618 \def\HoLogoHtml@XeTeX#1{%
                        1619 \HoLogoCss@XeTeX
                        1620 \quad \verb|\HOLOGO@Span{XeTeX}{|} \%
                               \hologo{Xe}%
                        1621
                              \hologo{TeX}%
                        1622
                        1623 }%
                        1624 }
   \HoLogoCss@XeTeX
                        1625 \def\HoLogoCss@XeTeX{%
                        1626 \Css{%
                               span.HoLogo-XeTeX span.HoLogo-TeX{%
                        1627
                        1628
                                margin-left:-.15em;%
                        1629
                               }%
                        1630 }%
                        1631 \global\let\HoLogoCss@XeTeX\relax
                        1632 }
    \HoLogo@XeLaTeX
                        1634 \hologo{Xe}%
                        1635 \kern-.13em%
                        1636 \hologo{LaTeX}%
                        1637 }
\HoLogoHtml@XeLaTeX
                        1638 \def\HoLogoHtml@XeLaTeX#1{%
                        1639 \HoLogoCss@XeLaTeX
                        1640 \quad \verb|\HOLOGO@Span{XeLaTeX}{|} \%
                               \verb|\hologo{Xe}| \%
                        1641
                               \hologo{LaTeX}%
                        1642
                        1643 }%
                        1644 }
 \HoLogoCss@XeLaTeX
                        1645 \ensuremath{\mbox{\sc MoLogoCss@XeLaTeX}} \label{thm:complex}
                        1646 \Css{%
                        1647
                               \tt span.HoLogo-XeLaTeX\ span.HoLogo-Xe\{\%
```

```
1648
                                                                                                                                                                                                                                                                                                                                                                                                             margin-right:-.13em;%
                                                                                                                                                                                                                                                                                                             1649
                                                                                                                                                                                                                                                                                                             1650 }%
                                                                                                                                                                                                                                                                                                                                                                           \global\let\HoLogoCss@XeLaTeX\relax
                                                                                                                                                                                                                                                                                                             1651
                                                                                                                                                                                                                                                                                                             1652 }
                                                                                                                                                                                                                                                                                                             2.9.15 pdfT<sub>E</sub>X, pdfI<sub>A</sub>T<sub>E</sub>X
                                                                                      \HoLogo@pdfTeX
                                                                                                                                                                                                                                                                                                             1653 \def\HoLogo@pdfTeX#1{%
                                                                                                                                                                                                                                                                                                             1654 \HOLOGO@mbox{%
                                                                                                                                                                                                                                                                                                                                                                             #1{p}{P}df\hologo{TeX}%
                                                                                                                                                                                                                                                                                                             1655
                                                                                                                                                                                                                                                                                                             1656 }%
                                                                                                                                                                                                                                                                                                             1657 }
                                                          \HoLogoCs@pdfTeX
                                                                                                                                                                                                                                                                                                             1658 \ensuremath{\mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$}\mbox{$\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbo
                                \HoLogoBkm@pdfTeX
                                                                                                                                                                                                                                                                                                             1659 \def\HoLogoBkm@pdfTeX#1{%
                                                                                                                                                                                                                                                                                                             1660 \#1{p}{P}df\hologo{TeX}%
                                                                                                                                                                                                                                                                                                               1661 }
                            \verb|\HoLogoHtml@pdfTeX||
                                                                                                                                                                                                                                                                                                             1662 \verb|\label{lem:logo}| 1662 \verb|\label{logo}| 166
                                                          \HoLogo@pdfLaTeX
                                                                                                                                                                                                                                                                                                               1663 \def\HoLogo@pdfLaTeX#1{\%
                                                                                                                                                                                                                                                                                                             1664 \HOLOGO@mbox{%
                                                                                                                                                                                                                                                                                                             1665
                                                                                                                                                                                                                                                                                                                                                                                             #1{p}{P}df\hologo{LaTeX}%
                                                                                                                                                                                                                                                                                                             1666 }%
                                                                                                                                                                                                                                                                                                             1667 }
                            \HoLogoCs@pdfLaTeX
                                                                                                                                                                                                                                                                                                             1668 \ensuremath{\mbox{\sc log}}\label{thm:log} 1668 \ensuremath{\mbox{\sc log}}\label{thm:log} LaTeX \# 1 \{\# 1 \{p\} \{P\} \ensuremath{\mbox{\sc log}}\label{thm:log}\label{thm:log} 1668 \ensuremath{\mbox{\sc log}}\label{thm:log} \ensuremath{\
      \HoLogoBkm@pdfLaTeX
                                                                                                                                                                                                                                                                                                             1669 \def\HoLogoBkm@pdfLaTeX#1{\%}
                                                                                                                                                                                                                                                                                                             1670 \#1{p}{P}df\hologo{LaTeX}%
                                                                                                                                                                                                                                                                                                             1671 }
\HoLogoHtml@pdfLaTeX
                                                                                                                                                                                                                                                                                                             1672 \verb|\location| 1672 \verb|\lo
                                                                                                                                                                                                                                                                                                             2.9.16 VT_{E}X
                                                                                                    \HoLogo@VTeX
                                                                                                                                                                                                                                                                                                             1673 \def\HoLogo@VTeX#1{%
                                                                                                                                                                                                                                                                                                             1674 \HOLOGO@mbox{%
                                                                                                                                                                                                                                                                                                                                                                                         V\hologo{TeX}%
                                                                                                                                                                                                                                                                                                             1675
                                                                                                                                                                                                                                                                                                             1676 }%
                                                                                                                                                                                                                                                                                                             1677 }
                                              \HoLogoHtml@VTeX
                                                                                                                                                                                                                                                                                                             1678 \verb|\label{lem:logo}| 1678 \verb|\label{logo}| 167
```

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

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{%
       span.
Ho<br/>Logo-AmS span.
Ho<br/>Logo-M\{\%
1701
1702
        position:relative;%
1703
        top:.5ex;%
1704
        margin-left:-.1667em;%
1705
        margin-right:-.125em;%
1706
        text-decoration:none;%
1707
1708 }%
     \global\let\HoLogoCss@AmS\relax
1709
1710 }
```

\HoLogo@AmSTeX

```
1711 \def\HoLogo@AmSTeX#1{%

1712 \hologo{AmS}%

1713 \HOLOGO@hyphen

1714 \hologo{TeX}%

1715 }
```

\HoLogoBkm@AmSTeX

 $1716 \ensuremath{\mbox{\sc logoBkm@AmSTeX\#1{AmS-TeX}}\%}$

$\verb|\HoLogoHtml@AmSTeX||$

 $1717 \verb|\location{ | location{ | location$

\HoLogo@AmSLaTeX

```
1718 \def\HoLogo@AmSLaTeX#1{%

1719 \hologo{AmS}%

1720 \HOLOGO@hyphen

1721 \hologo{LaTeX}%

1722 }
```

 $1723 \ensuremath{\mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$}\mbox{$\mbox{$}\mbo$

 $\verb|\HoLogoHtml@AmSLaTeX||$

 $1724 \verb|\location| 1724 \verb|\lo$

2.9.18 BibTeX

\HoLogo@BibTeX@sc

\HoLogoHtml@BibTeX@sc

\HoLogoCss@BibTeX@sc

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

```
\label{lem:defBibTeX} $$ \def\BibTeX{%} $$
      {%
        \rm
        В%
        \kern-.05em%
        {%
         \sc
         \kern-.025em %
         b%
        }%
        \kern-.08em
        T%
        \kern-.1667em%
        \lower.7ex\hbox{E}%
        \kern-.125em%
        Х%
      }%
     }
1725 \def\HoLogo@BibTeX@sc#1{%
1726 B%
     \kern-.05em%
1727
1728 \HoLogoFont@font{BibTeX}{sc}{%
1729
1730
      \kern-.025em%
1731
      b%
1732 }%
1733 \HOLOGO@discretionary
1734 \kern-.08em%
     \hologo{TeX}%
1735
1736 }
1737 \def\HoLogoHtml@BibTeX@sc#1{\%
1738 \HoLogoCss@BibTeX@sc
     \verb|\HOLOGO@Span{BibTeX-sc}|{\%}|
1739
1740
      \HOLOGO@Span{i}{i}%
1741
      \HOLOGO@Span{b}{b}%
1742
1743
      \hologo{TeX}%
1744 }%
1745 }
1746 \def\HoLogoCss@BibTeX@sc{\%
1747 \Css{%
1748
      span.HoLogo-BibTeX-sc span.HoLogo-i{%
        margin-left:-.05em;%
1749
        margin-right:-.025em;%
1750
        font-variant:small-caps;%
1751
1752
      }%
```

```
1753 }%
     \Css{%
1754
       span.HoLogo-BibTeX-sc span.HoLogo-b{%
1755
        margin-right:-.08em;%
1756
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}{%
       \kern-.05em%
       \hbox{\%}
        $\m@th$% %% force math size calculations
        \csname S@\f@size\endcsname
        \fontsize\sf@size\z@
        \math@fontsfalse
        \selectfont
        I%
        \kern-.025em%
        В
      }%
       \kern-.08em%
      \-%
       \TeX
     }
1762 \def\HoLogo@BibTeX@sf#1{%
1763 B%
     \kern-.05em%
1764
     \HoLogoFont@font{BibTeX}{bibsf}{%
1765
1766
1767
      \kern-.025em%
1768
      В%
1769 }%
     \HOLOGO@discretionary
1770
     \kern-.08em%
1771
     \hologo{TeX}%
1772
1773 }
1774 \def\HoLogoHtml@BibTeX@sf#1{%
     \HoLogoCss@BibTeX@sf
1776
     \HOLOGO@Span{BibTeX-sf}{%
1777
      \HoLogoFont@font{BibTeX}{bibsf}{%
1778
        \HOLOGO@Span{i}{I}%
1779
        В%
1780
1781
      }%
      \hologo{TeX}%
1782
1783
     }%
1784 }
1785 \def\HoLogoCss@BibTeX@sf{%
1786
     \Css{%
      span. HoLogo-BibTeX-sf\ span. HoLogo-i\{\%
1787
```

\HoLogoHtml@BibTeX@sf

```
margin-left:-.05em;%
1788
```

```
margin-right:-.025em;%
                                                                         1789
                                                                         1790
                                                                         1791
                                                                                    }%
                                                                                     \Css{%
                                                                         1792
                                                                         1793
                                                                                        span.HoLogo-BibTeX-sf span.HoLogo-TeX{%
                                                                         1794
                                                                                            margin-left:-.08em;%
                                                                         1795
                                                                                        }%
                                                                         1796 }%
                                                                                     \verb|\global| let\HoLogoCss@BibTeX@sf\relax| \\
                                                                         1797
                                                                         1798 }
                               \HoLogo@BibTeX
                                                                         1799 \label{logo} $$1799 \end{subset} \label{logo} $$1799 \end{subset} $$1799 \end{s
                    \HoLogoHtml@BibTeX
                                                                         1800 \def\HoLogoHtml@BibTeX{\HoLogoHtml@BibTeX@sf}
                                                                         2.9.19 BIBT<sub>E</sub>X8
                            \HoLogo@BibTeX8
                                                                         1801 \expandafter\def\csname HoLogo@BibTeX8\endcsname#1{%
                                                                         1802 \hologo{BibTeX}%
                                                                         1803 8%
                                                                         1804 }
                  \HoLogoBkm@BibTeX8
                                                                         1805 \verb|\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 ConT<sub>E</sub>Xt
           \HoLogo@ConTeXt@simple
                                                                         1812 \def\HoLogo@ConTeXt@simple#1{%
                                                                         1813 \HOLOGO@mbox{Con}%
                                                                         1814 \HOLOGO@discretionary
                                                                         1815 \HOLOGO@mbox{\hologo{TeX}t}%
                                                                         1816 }
\HoLogoHtml@ConTeXt@simple
                                                                         1817 \let\HoLogoHtml@ConTeXt@simple\HoLogo@ConTeXt@simple
          \HoLogo@ConTeXt@narrow This definition of logo ConTeXt with variant narrow comes from TUGboat's class
                                                                         ltugboat (version 2010/11/15 v2.8).
                                                                         1818 \def\HoLogo@ConTeXt@narrow#1{%
                                                                         1819 \HOLOGO@mbox{C\kern-.0333emon}%
                                                                         1820 \HOLOGO@discretionary
                                                                         1821 \kern-.0667em%
                                                                         1822 \HOLOGO@mbox{\hologo{TeX}\kern-.0333emt}%
                                                                         1823 }
\HoLogoHtml@ConTeXt@narrow
                                                                         1824 \def\HoLogoHtml@ConTeXt@narrow#1{\%
                                                                         1825 \HoLogoCss@ConTeXt@narrow
                                                                         1826 \HOLOGO@Span{ConTeXt-narrow}{%
```

```
\HOLOGO@Span{C}{C}%
                                                                                  1827
                                                                                  1828
                                                                                                     on%
                                                                                                     \hologo{TeX}%
                                                                                  1829
                                                                                                     t%
                                                                                   1830
                                                                                   1831 }%
                                                                                  1832 }
\HoLogoCss@ConTeXt@narrow
                                                                                  1833 \def\HoLogoCss@ConTeXt@narrow{%
                                                                                  1834
                                                                                                 \Css{%
                                                                                  1835
                                                                                                     span.HoLogo-ConTeXt-narrow span.HoLogo-C{%
                                                                                                         margin-left:-.0333em;\%
                                                                                  1836
                                                                                  1837
                                                                                                     }%
                                                                                  1838 }%
                                                                                                 \Css{%
                                                                                  1839
                                                                                                     {\tt span.HoLogo-ConTeXt-narrow\ span.HoLogo-TeX} \{\%
                                                                                  1840
                                                                                                         margin-left:-.0667em;%
                                                                                  1841
                                                                                                         margin-right:-.0333em;%
                                                                                  1842
                                                                                  1843
                                                                                                     }%
                                                                                  1844 }%
                                                                                                 \verb|\global\et\HoLogoCss@ConTeXt@narrow\relax| \\
                                                                                  1846 }
                             \HoLogo@ConTeXt
                                                                                  1847 \def\HoLogo@ConTeXt{\HoLogo@ConTeXt@narrow}
                \HoLogoHtml@ConTeXt
                                                                                   1848 \verb|\def\HoLogoHtml@ConTeXt{\HoLogoHtml@ConTeXt@narrow}|
                                                                                  2.9.21 \text{ emTeX}
                                   \HoLogo@emTeX
                                                                                  1849 \def\HoLogo@emTeX#1{\%}
                                                                                   1850 \HOLOGO@mbox{\#1{e}{E}m}%
                                                                                  1851 \HOLOGO@discretionary
1852 \hologo{TeX}%
                                                                                  1853 }
                            \HoLogoCs@emTeX
                                                                                  1854 \ensuremath{\mbox{\mbox{$1$}}} 1854 \ensuremath{\mbox{$4$}} \ensuremath{\mbox{$4$}} 1854 \ensure
                       \HoLogoBkm@emTeX
                                                                                  1855 \def\HoLogoBkm@emTeX#1{%
                                                                                  1856 #1{e}{E}m\hologo{TeX}%
                                                                                  1857 }
                     \verb|\HoLogoHtml@emTeX||
                                                                                   1858 \let\HoLogoHtml@emTeX\HoLogo@emTeX
                                                                                  2.9.22 \varepsilon_X T_E X
                                   \HoLogo@ExTeX The definition is taken from the FAQ of the project \varepsilon_X T_F X [4].
                                                                                                  \def\ExTeX{%
                                                                                                      \textrm{% Logo always with serifs
                                                                                                          \ensuremath{%
                                                                                                             \textstyle
                                                                                                             \varepsilon_{\{\%\}
                                                                                                                 \kern-0.15em%
                                                                                                                 \mathcal{X}
                                                                                                            }%
                                                                                                         }%
```

```
\kern-.15em%
                           \TeX
                         }%
                        }
                   1859 \def\HoLogo@ExTeX#1{%
                   \ltx@mbox{%
                   1861
                          \HOLOGO@MathSetup
                   1862
                   1863
                          $%
                   1864
                           \textstyle
                            \varepsilon_{%
                   1865
                   1866
                             \kern-0.15em%
                             \HoLogoFont@font{ExTeX}{sy}{X}%
                   1867
                   1868
                            }%
                   1869
                          $%
                         }%
                   1870
                         \HOLOGO@discretionary
                   1871
                         \kern-.15em%
                   1872
                   1873
                         \hologo{TeX}%
                   1874 }%
                   1875 }
\HoLogoHtml@ExTeX
                   1876 \def\HoLogoHtml@ExTeX#1{%
                        \HoLogoCss@ExTeX
                   1877
                   1878
                        \HoLogoFont@font{ExTeX}{rm}{%
                         \HOLOGO@Span{ExTeX}{%
                   1879
                   1880
                          \ltx@mbox{%
                            \HOLOGO@MathSetup
                   1881
                            $\textstyle\varepsilon$%
                   1882
                   1883
                            \label{logo} $$\HOLOGO@Span{X}{\textstyle\chi$}\%$
                   1884
                            \hologo{TeX}%
                          }%
                   1885
                   1886
                         }%
                   1887 }%
                   1888 }
\HoLogoBkm@ExTeX
                   1889 \def\HoLogoBkm@ExTeX#1{\%}
                   1891 \hologo{TeX}%
                   1892 }
 \HoLogoCss@ExTeX
                   1893 \def\HoLogoCss@ExTeX{%
                   1894 \Css{%
                         span.HoLogo-ExTeX{%
                   1895
                          font-family:serif;%
                   1896
                         }%
                   1897
                   1898 }%
                   1899 \Css{%
                         span.HoLogo-ExTeX span.HoLogo-TeX{%
                   1900
                          margin-left:-.15em;%
                   1901
                   1902
                   1903 }%
                   1904
                        \global\let\HoLogoCss@ExTeX\relax
                   1905 }
                   2.9.23 MiKT<sub>E</sub>X
```

\HoLogo@MiKTeX

```
1907 \HOLOGO@mbox{MiK}%
                      1908 \HOLOGO@discretionary
                      1909 \hologo{TeX}%
                      1910 }
\HoLogoHtml@MiKTeX
                      1911 \verb|\location| let\hoLogoHtml@MiKTeX\hoLogo@MiKTeX|
                      2.9.24 OzT<sub>E</sub>X and friends
                      Source: OzTEX FAQ [6]:
                           \def\OzTeX{O\kern-.03em z\kern-.15em\TeX}
                           (There is no kerning in OzMF, OzMP and OzTtH.)
     \HoLogo@OzTeX
                      1912 \def\HoLogo@OzTeX#1{%
                      1913 O%
                      1914 \kern-.03em %
                      1915 z%
                      1916 \kern-.15em %
                      1917 \hologo{TeX}%
                      1918 }
 \HoLogoHtml@OzTeX
                      1919 \def\HoLogoHtml@OzTeX#1{%
                      1920 \HoLogoCss@OzTeX
                      1921 \HOLOGO@Span{OzTeX}{%
                            0%
                      1922
                            \HOLOGO@Span{z}{z}%
                      1923
                            \hologo{TeX}%
                      1924
                      1925 }%
                      1926 }
  \HoLogoCss@OzTeX
                      1927 \def\HoLogoCss@OzTeX{%
                      1928 \Css{%
                            span.HoLogo-OzTeX span.HoLogo-z{%
                      1929
                             margin-left:-.03em;%
                      1930
                             margin-right:-.15em;%
                      1931
                      1932
                            }%
                      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 }
```

1906 \def\HoLogo@MiKTeX#1{%

2.9.25 PCT_EX

```
\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 PTCTEX

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

```
\HoLogo@PiCTeX
                                                              1978 \def\HoLogo@PiCTeX#1{%
                                                              1979 \hologo{PiC}%
                                                              1980 \HOLOGO@discretionary
                                                              1981 \kern-.11em%
                                                              1982 \hologo{TeX}%
                                                              1983 }
\HoLogoHtml@PiCTeX
                                                              1984 \def\HoLogoHtml@PiCTeX#1{%
                                                              1985 \HoLogoCss@PiCTeX
                                                              1986 \HOLOGO@Span{PiCTeX}{%
                                                              1987
                                                                              \hologo{PiC}%
                                                              1988
                                                                            \hologo{TeX}%
                                                              1989 }%
                                                              1990 }
    \HoLogoCss@PiCTeX
                                                              1991 \def\HoLogoCss@PiCTeX{%
                                                              1992 \Css{%
                                                                               span.HoLogo-PiCTeX span.HoLogo-PiC{%
                                                              1993
                                                              1994
                                                                                   margin-right:-.11em;%
                                                              1995
                                                                              }%
                                                              1996 }%
                                                              1997 \global\let\HoLogoCss@PiCTeX\relax
                                                              1998 }
                                                              2.9.27 teT<sub>E</sub>X
                 \HoLogo@teTeX
                                                              1999 \def\HoLogo@teTeX#1{%
                                                              2000 \HOLOGO@mbox{#1\{t\}{T}e}%
                                                              2001 \HOLOGO@discretionary
                                                              2002 \hologo{TeX}%
                                                              2003 }
           \HoLogoCs@teTeX
                                                              2004 \ensuremath{\mbox{\sc def}\mbox{\sc d
     \HoLogoBkm@teTeX
                                                              2005 \ensuremath{\mbox{\sc logoBkm@teTeX\#1}}\%
                                                              2006 #1{t}{T}e\hologo{TeX}%
                                                              2007 }
    \verb|\HoLogoHtml@teTeX||
                                                              2008 \let\HoLogoHtml@teTeX\HoLogo@teTeX
                                                              2.9.28 T<sub>E</sub>X4ht
              \HoLogo@TeX4ht
                                                              2009 \expandafter\def\csname HoLogo@TeX4ht\endcsname#1{%
                                                              2010 \quad \verb|\HOLOGO@mbox{\hologo{TeX}4ht}| \%
                                                              2011 }
 \HoLogoHtml@TeX4ht
                                                              2014 \csname HoLogo@TeX4ht\endcsname
```

2.9.29 SageT_EX

```
\HoLogo@SageTeX
```

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

2020 }

\HoLogoHtml@SageTeX

 $2021 \verb|\location| 2021 \verb|\lo$

2.10 METAFONT and friends

\HoLogo@METAFONT

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

\HoLogo@METAPOST

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

2.11Others

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

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}{%
      \HOLOGO@mbox{%
2058
2059
       K\kern.05em%
2060
       O\kern.05em%
2061
       M\kern.05em%
2062
       Α%
      }%
2063
      \kern.1em%
2064
      \HOLOGO@hyphen
2065
2066
      \kern.1em%
2067
      \HOLOGO@mbox{Script}%
2068 }%
2069 }
2070 \def\HoLogoBkm@KOMAScript#1{%
2071 KOMA-Script%
2072 }
2073 \def\HoLogoHtml@KOMAScript#1{%
```

\HoLogoHtml@KOMAScript

\HoLogoBkm@KOMAScript

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

\HoLogoCss@KOMAScript

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

```
2090
                          }%
                   2091
                        }%
                   2092
                        \Css{%
                   2093
                          span.HoLogo-KOMAScript span.HoLogo-O{%
                   2094
                           padding-left:.05em;%
                   2095
                           padding-right:.05em;%
                          }%
                   2096
                        }%
                   2097
                        \Css{%
                   2098
                          span.HoLogo-KOMAScript span.HoLogo-A{%
                   2099
                           padding-left:.05em;%
                   2100
                          }%
                   2101
                   2102
                        }%
                   2103
                   2104
                          span.HoLogo-KOMAScript span.HoLogo-hyphen{%
                   2105
                           padding-left:.1em;%
                           padding-right:.1em;%
                   2106
                   2107
                          }%
                   2108 }%
                        \global\let\HoLogoCss@KOMAScript\relax
                   2109
                   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\ensuremath{\verb|lower.25em|hbox{Y}\kern-.125emX}@\%
                          }{%
                           LyX%
                          }%
                   2111 \def\HoLogo@LyX#1{%
                   2112 L%
                   2113 \kern-.1667em%
                   2114 \cdot lower.25em \cdot Y%
                   2115 \kern-.125em%
                   2116 X%
                        \HOLOGO@SpaceFactor
                   2117
                   2118 }
\HoLogoHtml@LyX
                   2119 \def\HoLogoHtml@LyX#1{%
                   2120 \HoLogoCss@LyX
                   2121 \HOLOGO@Span{LyX}{%
                   2122
                         L%
                          \HOLOGO@Span{y}{Y}%
                   2123
                          X%
                   2124
                   2125 }%
                   2126 }
 \HoLogoCss@LyX
                   2127 \def\HoLogoCss@LyX{\%
                   2128 \Css{%
                          {\tt span.HoLogo-LyX\ span.HoLogo-y\{\%}
                   2129
                           position:relative;%
                   2130
                           top:.25em;%
                   2131
                           margin-left:-.1667em;%
                   2132
                           margin-right:-.125em;%
                   2134
                           text-decoration:none;%
```

font-family:sans-serif;%

2089

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

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

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

```
\def\NTS{%
                                                      \leavevmode
                                                      \hbox{\%}
                                                                  $%
                                                                            \cal N%
                                                                            \kern-0.35em%
                                                                            \lower0.5ex\hbox{$\cal T$}%
                                                                            \kern-0.2em%
                                                                           S%
                                                                 $%
                                                    }%
                                           }
2139 \def\HoLogo@NTS#1{\%
2140 \holinebreak \holinebrea
                                                    N\/%
 2141
 2142
                                                     \kern-.35em%
 2143
                                                     \label{lower.5exhbox{T}} \
 2144
                                                     \kern-.2em%
 2145
                                                    S\/%
 2146 }%
 2147
                                          \HOLOGO@SpaceFactor
2148 }
```

2.11.5 T_TH (T_EX to HTML translator)

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

T_TH

\HoLogo@TTH

```
2149 \def\HoLogo@TTH#1{%

2150 \ltx@mbox{%

2151 T\HOLOGO@SubScript{T}H%

2152 }%

2153 \HOLOGO@SpaceFactor

2154 }
```

\HoLogoHtml@TTH

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

2.11.6 Hàn Thế Thành

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

\HoLogo@HanTheThanh

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

```
2161
                                                                                  \ltx@mbox{%
                                                                      2162
                                                                                      Th%
                                                                                       \HOLOGO@IfCharExists{"1EBF}{%
                                                                      2163
                                                                                          \char"1EBF\relax
                                                                      2164
                                                                      2165
                                                                                      }{%
                                                                      2166
                                                                                          \ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath}\amb}\amb}\amb}}}}}}}}}}}}}}
                                                                      2167
                                                                                      }%
                                                                                   }%
                                                                      2168
                                                                                   \HOLOGO@space
                                                                      2169
                                                                                  \ltx@mbox{Th\`anh}%
                                                                      2170
                                                                      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 }
                                                                                        Driver detection
                                                                      2.12
                                                                      2182 \HOLOGO@IfExists\InputIfFileExists{%
                                                                      2183 \InputIfFileExists{hologo.cfg}{}{}%
                                                                      2184 }{%
                                                                                   \ltx@IfUndefined{pdf@filesize}{%
                                                                      2185
                                                                                       \def\HOLOGO@InputIfExists{%
                                                                      2186
                                                                                          \openin\HOLOGO@temp=hologo.cfg\relax
                                                                      2187
                                                                      2188
                                                                                          \ifeof\HOLOGO@temp
                                                                      2189
                                                                                              \closein\HOLOGO@temp
                                                                      2190
                                                                                          \else
                                                                      2191
                                                                                              \closein\HOLOGO@temp
                                                                      2192
                                                                                              \begingroup
                                                                                                 \def\x{LaTeX2e}\%
                                                                      2193
                                                                                              \expandafter\endgroup
                                                                      2194
                                                                      2195
                                                                                              \int \mathbf{x} 
                                                                      2196
                                                                                                 \input{hologo.cfg}%
                                                                      2197
                                                                                              \else
                                                                      2198
                                                                                                 \input hologo.cfg\relax
                                                                      2199
                                                                                              \fi
                                                                      2200
                                                                                          \fi
                                                                                      }%
                                                                      2201
                                                                                       \ltx@IfUndefined{newread}{%
                                                                      2202
                                                                                          \chardef\HOLOGO@temp=15 %
                                                                      2203
                                                                                          \def\HOLOGO@CheckRead{%
                                                                      2204
                                                                                              \ifeof\HOLOGO@temp
                                                                      2205
                                                                      2206
                                                                                                 \HOLOGO@InputIfExists
                                                                      2207
                                                                                              \else
                                                                                                 \ifcase\HOLOGO@temp
                                                                      2208
                                                                      2209
                                                                                                    \@PackageWarningNoLine{hologo}{%
                                                                      2210
                                                                                                       Configuration file ignored, because\MessageBreak
                                                                      2211
                                                                                                       a free read register could not be found%
                                                                                                    }%
                                                                      2212
                                                                      2213
                                                                                                 \else
                                                                                                    \begingroup
                                                                      2214
                                                                      2215
                                                                                                       \count\ltx@cclv=\HOLOGO@temp
```

```
\advance\ltx@cclv by \ltx@minusone
2216
2217
                                    \edef\x{\endgroup
                                        \verb|\chardef| no expand HOLOGO @ temp = \\ the \\ count \\ ltx @ cclv \\
2218
2219
2220
                                   }%
2221
                                /x
2222
                             \fi
                         \fi
2223
                     ٦%
2224
                  }{%
2225
                      \csname newread\endcsname\HOLOGO@temp
2226
                      \HOLOGO@InputIfExists
2227
                  }%
2228
2229
              }{%
2230
                   \edef\HOLOGO@temp{\pdf@filesize{hologo.cfg}}%
2231
                  \ifx\HOLOGO@temp\ltx@empty
2232
                      \ifnum\HOLOGO@temp>0 %
2233
                          \begingroup
2234
                             \def\x{LaTeX2e}\%
2235
2236
                          \expandafter\endgroup
                          \int {\rm mtname}\x
2237
2238
                             \input{hologo.cfg}%
2239
                          \else
2240
                             \input hologo.cfg\relax
2241
                          \fi
2242
                      \else
                          \COMMON \COM
2243
2244
                             Empty configuration file `hologo.cfg' ignored%
                         }%
2245
                      \fi
2246
2247
                  \fi
2248 }%
2249 }
2250 \def\HOLOGO@temp#1#2{%}
2251 \kv@define@key{HoLogoDriver}{#1}[]{%
2252
                  \begingroup
                      \def\HOLOGO@temp{##1}%
2253
                      \ltx@onelevel@sanitize\HOLOGO@temp
2254
                      \ifx\HOLOGO@temp\ltx@empty
2255
2256
                      \else
                          \@PackageError{hologo}{%
2257
2258
                             Value (\HOLOGO@temp) not permitted for option `#1'%
2259
                          }%
2260
                          \@ehc
2261
                      \fi
                  \endgroup
2262
                  \def\hologoDriver{\#2}\%
2263
2264 }%
2265 }%
2266 \def\HOLOGO@etemp#1#2{%}
              \ifx\kv@value\relax
2267
                  \HOLOGO@temp{#1}{#1}%
2268
2269
                  \HOLOGO@temp{#1}{#2}%
2270
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 \t \ \ltx@ifundefined{hologoDriver}{\%}
                                                               2296
                                                                              \begingroup
                                                                               \edef\x{\endgroup
                                                               2297
                                                                                  \noexpand\kvsetkeys{HoLogoDriver}{\HOLOGO@DriverFallback}%
                                                               2298
                                                               2299
                                                                              }\x
                                                               2300 }{}%
                                                                           \@PackageInfoNoLine{hologo}{Using driver `\hologoDriver'}%
                                                               2302 }
    \HOLOGO@CheckDriver
                                                               2303 \def\HOLOGO@CheckDriver{%
                                                               2304 \ifpdf
                                                               2305
                                                                               \def\hologoDriver{pdftex}%
                                                               2306
                                                                               \let\HOLOGO@pdfliteral\pdfliteral
                                                               2307
                                                                                   \ifx\pdfextension\@undefined\else
                                                               2308
                                                                                      \protected\def\pdfliteral{\pdfextension literal}%
                                                               2309
                                                                                      \verb|\label{logo}| let\HOLOGO@pdfliteral | pdfliteral | let\line | 
                                                               2310
                                                               2311
                                                                                   \ltx@IfUndefined{HOLOGO@pdfliteral}{%
                                                               2312
                                                                                      \mbox{ifnum}\uxtrue{1}
                                                               2313
                                                                                      \else
                                                               2314
                                                               2315
                                                                                         \begingroup
                                                                                             \let\HOLOGO@temp\endgroup
                                                               2316
                                                                                            \ifcase0%
                                                               2317
                                                               2318
                                                                                                   \directlua{%
                                                               2319
                                                                                                      if tex.enableprimitives then \%
                                                               2320
                                                                                                         tex.enable primitives ('HOLOGO@', \{'pdfliteral'\})\%
                                                               2321
                                                                                                      else %
                                                                                                         tex.print('1')%
                                                               2322
                                                                                                      end%
                                                               2323
                                                                                                   1%
                                                               2324
                                                                                                   \ifx\HOLOGO@pdfliteral\@undefined 1\fi%
                                                               2325
                                                               2326
                                                                                                   \relax%
                                                                                                \endgroup
                                                               2327
                                                                                                \let\HOLOGO@temp\relax
                                                               2328
                                                               2329
                                                                                                \global\let\HOLOGO@pdfliteral\HOLOGO@pdfliteral
                                                               2330
                                                                                            \fi%
                                                                                         \HOLOGO@temp
                                                               2331
```

```
2332
         \fi
        }{}%
2333
2334
       \ltx@IfUndefined{HOLOGO@pdfliteral}{%
2335
2336
        \@PackageWarningNoLine{hologo}{%
2337
         Cannot find \string\pdfliteral
2338
        }%
      }{}%
2339
2340
     \else
       \ifxetex
2341
        \def\hologoDriver{xetex}%
2342
       \else
2343
2344
        \ifvtex
         \def\hologoDriver{vtex}%
2345
2346
2347
      \fi
2348
     \fi
2349 }
2350 \def\HOLOGO@WarningUnsupportedDriver#1{%
2351 \quad \texttt{\QPackageWarningNoLine\{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 \t \ OlfUndefined{pgftext}{}{%}
2364 \HOLOGO@AtEnd
2365 }
2366 \ltx@IfUndefined{psscalebox}{}{%
2367 \HOLOGO@AtEnd
2368 }
2369 \verb| def\HOLOGO@temp{LaTeX2e}|
2370 \ifx\fmtname\HOLOGO@temp
2371 \RequirePackage{kvoptions}[2011/06/30]%
2373 \fi
2374 \HOLOGO@DriverSetup{}
2375 \def\HOLOGO@ReflectBox#1{%
     \begingroup
2376
       \setbox\ltx@zero\hbox{\begingroup#1\endgroup}%
2377
2378
       \setbox\ltx@two\hbox{%
2379
        \kern\wd\ltx@zero
2380
        \verb|\csname HOLOGO@ScaleBox@\hologoDriver\endcsname{-1}{1}{\%}|
2381
         \hbox to Opt{\copy\ltx@zero\hss}%
2382
        }%
      }%
2383
      \wd\ltx@two=\wd\ltx@zero
2384
      \box\ltx@two
2385
```

GO@WarningUnsupportedDriver

\HOLOGO@ReflectBox

```
\endgroup
                             2386
                             2387 }
  \HOLOGO@PointReflectBox
                             2388 \def\HOLOGO@PointReflectBox#1{\%
                             2389 \begingroup
                             2390
                                   2391
                                   2392
                                     \kern\wd\ltx@zero
                             2393
                                     \\ \
                             2394
                                      \label{logo} $$ \operatorname{HOLOGO@ScaleBox@hologoDriver}\operatorname{-1}_{-1}_{\%} $$
                             2395
                                       \hbox to Opt{\copy\ltx@zero\hss}%
                             2396
                                      }%
                             2397
                                     }%
                             2398
                                   \wd\ltx@two=\wd\ltx@zero
                             2399
                                   \box\ltx@two
                             2400
                                  \endgroup
                             2401
                             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}{%
                                  \def\HOLOGO@ScaleBox@pdftex#1#2#3{%
                             2406
                                   \HOLOGO@pdfliteral{%
                             2407
                                     q #1 0 0 #2 0 0 cm%
                                   }%
                             2408
                                   #3%
                             2409
                                   \HOLOGO@pdfliteral{%
                             2410
                             2411
                                    0%
                                   ት%
                             2412
                             2413 }%
                             2414 }
  \HOLOGO@ScaleBox@dvips
                             2415 \HOLOGO@temp{dvips}{\%
                             2416 \def\HOLOGO@ScaleBox@dvips#1#2#3{%
                                   \special{ps:%
                             2417
                                     gsave %
                             2418
                                    currentpoint %
                             2419
                                     currentpoint translate %
                             2420
                                     #1 #2 scale %
                             2421
                             2422
                                     neg exch neg exch translate%
                             2423
                                   }%
                             2424
                                   #3%
                                   \special{ps:%
                             2425
                                    currentpoint %
                             2426
                                     grestore %
                             2427
                                    moveto%
                             2428
                                   }%
                             2429
                             2430 }%
                             2431 }
\HOLOGO@ScaleBox@dvipdfm
                             2432 \HOLOGO@temp{dvipdfm}{\%
                             {\tt 2433} \quad {\tt let\HOLOGO@ScaleBox@dvipdfm\HOLOGO@ScaleBox@dvips}
                             2434 }
                             Since X<sub>H</sub>T<sub>E</sub>X v0.6.
```

\HOLOGO@ScaleBox@xetex

\HOLOGO@ScaleBox@vtex

```
2435 \HOLOGO@temp{xetex}{%
2436 \def\HOLOGO@ScaleBox@xetex#1#2#3{%
      \special{x:gsave}%
2438
       special{x:scale #1 #2}%
2439
      #3%
2440
     \special{x:grestore}%
2441 }%
2442 }
2443 \HOLOGO@temp{vtex}{%
2444 \quad \texttt{\def}\ \texttt{\HOLOGO@ScaleBox@vtex\#1\#2\#3} \{\% \}
2445
       special{r(#1,0,0,#2,0,0)}%
       #3%
2446
2447
       \special{r)}%
2448 }%
2449 }
2450 \HOLOGO@AtEnd%
```

3 Test

 $2451 \langle /package \rangle$

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 %
2460 \expandafter\ifx\csname @gobble\endcsname\relax
2461 \long\def\@gobble#1{}%
2462 \fi
2463 \expandafter\ifx\csname \ensuremath{\texttt{Qfirstofone}}\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{\%}
       \def\body{#1}%
2473
2474
       \iterate
2475 }%
2476 \def\iterate{%
2477
      \body
        \let\next\iterate
2478
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{%
      \RestoreCatcodes
      \catcode\the\count@=\the\catcode\count@\relax
2491
2492 }%
2493 \ifnum\count@<255 \%
2494 \advance\count@ 1 %
2495 \repeat
2496
2497 \def\RangeCatcodeInvalid#1#2{%
     \count@=#1\relax
2498
2499
     \loop
      \catcode\count@=15 %
2500
2501 \ifnum\count@<#2\relax
2502
      \advance\count@ 1 %
2503 \repeat
2504 }
2505 \def\RangeCatcodeCheck#1#2#3{\%
2506 \count@=#1\relax
2507
    \loop
      \ifnum#3=\catcode\count@
2508
2509
      \else
2510
        \errmessage{%
         Character \the\count@\space
2511
2512
         with wrong catcode \the\catcode\count@\space
2513
         instead of \number#3%
2514
       }%
2515
      \fi
     2516
      \advance\count@ 1 %
2517
2518
     \repeat
2519 }
2520 \def\space{ }
2521 \expandafter\ifx\csname LoadCommand\endcsname\relax
2522 \def\LoadCommand{\input hologo.sty\relax}%
2523 \fi
2524 \left\{ \text{Test} \right\}
2525 \RangeCatcodeInvalid{0}{47}%
2526 \RangeCatcodeInvalid{58}{64}%
2527 \RangeCatcodeInvalid{91}{96}%
2528 \quad \texttt{\normalid} \{123\} \{255\} \%
     \catcode`\@=12 %
2529
2530
    \color=0 \%
2531
     \catcode`\%=14 %
2532
     \LoadCommand
     \RangeCatcodeCheck{0}{36}{15}%
2534
     \RangeCatcodeCheck{37}{37}{14}%
2535
     \RangeCatcodeCheck{38}{47}{15}%
2536
     \RangeCatcodeCheck{48}{57}{12}%
     \RangeCatcodeCheck{58}{63}{15}\%
2537
     2538
     \RangeCatcodeCheck{65}{90}{11}%
2539
     \RangeCatcodeCheck{91}{91}{15}%
2540
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 \(\frac{\test1}\)
```

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 \verb|\usepackage{hologo}| [2017/05/01]
2555 \usepackage{kvsetkeys}
2556 \usepackage{qstest}
2557 \IncludeTests{*}
2558 \setminus LogTests\{log\}\{*\}\{*\}
2559 \begin{document}
2560 \begin{qstest}{spacefactor}{spacefactor}
2561 \newcommand*{\Test}[1]{%
2562 \sbox0{\%}
2563
       \hologo{#1}%
       2564
2565 }%
2566 }%
2567 \makeatletter
2568 \def\TestList{}
2569 \def\hologoEntry#1#2#3{%
2570 \edef\TestList{%
2571
       \ifx\TestList\@empty
2572
       \else
        \TestList,%
2573
       \fi
2574
       #1%
2575
       \ifx\\#2\\%
2576
       \else
2577
        ={\text{variant}}=\#2}\%
2578
2579
2580 }%
2581 }
2582 \hologoList
2583 \expandafter\kv@parse@normalized\expandafter{%
2584 \TestList
2585 }{%
2586
     \begingroup
       \let\@logo=\kv@key
2587
2588
       \ifx\kv@value\relax
2589
        \expandafter\hologoLogoSetup\expandafter\@logo\expandafter{%
2590
2591
        }%
2592
       \fi
2593
       \Test\@logo
2594
     \endgroup
2595
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}%
       \label{eq:hologoVariant} $$ \HologoVariant{\#1}{\#2}/\hologoVariant{\#1}{\#2}\% $$
2621
2622
       \begingroup\scriptsize\hologoVariant{#1}{#2}\endgroup
2623
2624
       \quad
     \endgroup
2625
     (#3/#4/#5/#6)%
2626
2627
     \par
2628 }
2629 \text{ } \text{makeatletter}
2630 \def\hologoEntry#1#2#3{%
     \section{%
2631
2632
       \HologoVariant{#1}{#2}/\hologoVariant{#1}{#2} %
2633
       {[#1\ifx\\#2\\else\space(#2)\fi]}\% hash-ok
     }% braces around [] because of bug in tex4ht
2634
     \begingroup
2635
2636
       \hypersetup{unicode=false}%
2637
       \bookmark[%
        {\tt dest=\backslash @currentHref, \%}
2638
2639
        rellevel=1,%
2640
        keeplevel,%
2641
       14%
        \HologoVariant{#1}{#2}/\hologoVariant{#1}{#2} %
2642
        (PDFDocEncoding)%
2643
2644
       }%
2645
     \endgroup
     TestFont{#1}{#2}{OT1}{cmr}{m}{n}%
     TestFont{#1}{#2}{OT1}{cmss}{m}{n}%
     TestFont{#1}{#2}{OT1}{cmr}{b}{n}%
2648
2649
     TestFont{#1}{#2}{OT1}{cmr}{m}{it}%
2650
     \text{TestFont}\{\#1\}\{\#2\}\{OT1\}\{cmtt\}\{m\}\{n\}\%
     TestFont{#1}{#2}{T1}{lmr}{m}{n}%
2651
2652
     TestFont{#1}{#2}{T1}{lmss}{m}{n}%
     TestFont{#1}{#2}{T1}{lmr}{b}{n}%
2653
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 \text{TestFont}\{\#1\}\{\#2\}\{T1\}\{qtm\}\{m\}\{n\}\%
2659 \text{TestFont}\{\#1\}\{\#2\}\{T1\}\{\text{qtm}\}\{b\}\{n\}\%
2660 \text{TestFont}\{\#1\}\{\#2\}\{T1\}\{qtm\}\{m\}\{it\}\%
2661 \quad \texttt{TestFont}\{\#1\}\{\#2\}\{T1\}\{qcr\}\{m\}\{n\}\%
2662 \newpage
```

```
2663 } 2664 \makeatother 2665 \hologoList 2666 \end{document} 2667 \langle \text{test-list} \rangle
```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

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

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

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

CTAN:install/macros/latex/contrib/oberdiek.tds.zip

TDS refers to the standard "A Directory Structure for TEX Files" (CTAN:tds/tds.pdf). Directories with texmf in their name are usually organized this way.

4.2 Bundle installation

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

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

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

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

4.3 Package installation

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

```
tex hologo.dtx
```

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

```
\begin{array}{lll} hologo.sty & \rightarrow tex/generic/oberdiek/hologo.sty \\ hologo.pdf & \rightarrow doc/latex/oberdiek/hologo.pdf \\ example/hologo-example.tex & \rightarrow doc/latex/oberdiek/example/hologo-example.tex \\ test/hologo-test1.tex & \rightarrow doc/latex/oberdiek/test/hologo-test1.tex \\ test/hologo-test-spacefactor.tex & \rightarrow doc/latex/oberdiek/test/hologo-test-spacefactor.tex \\ test/hologo-test-list.tex & \rightarrow doc/latex/oberdiek/test/hologo-test-list.tex \\ hologo.dtx & \rightarrow source/latex/oberdiek/hologo.dtx \\ \end{array}
```

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.

¹http://ctan.org/pkg/hologo

4.4 Refresh file name databases

If your T_EX distribution (teT_EX, mikT_EX, ...) relies on file name databases, you must refresh these. For example, teT_EX users run texhash or mktexlsr.

4.5 Some details for the interested

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

plain T_EX: 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 pdfIATEX:

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

5 Catalogue

The following XML file can be used as source for the TEX Catalogue. The elements caption and description are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is hologo.xml.

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

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

6 References

- [1] Oren Patashnik, BiBT_EXing, 1988-02-08. CTAN:biblio/bibtex/base/
- [2] Gerd Neugebauer, DANTE, Package dtklogos, 2011-04-25.CTAN:usergrps/dante/dtk/dtklogos.sty
- [3] The $\mathcal{N}_{T}\mathcal{S}$ Team, The ε - $T_{E}X$ manual, 1998-02. CTAN:systems/e-tex/v2/doc/
- [4] The ε_X TEX group, ε_X TEX: FAQ How is ε_X TEX typeset?, 2007-04-14. http://www.extex.org/documentation/faq.html
- [5] The LyX Team, LyX The Document Processor, 2011-05-08. http://www.lyx.org/
- [6] Andrew Trevorrow, OzTEX FAQ: What is the correct way to typeset "OzTEX"?, 2011-09-15 (visited). http://www.trevorrow.com/oztex/ozfaq.html#oztex-logo
- [7] Michael Wichura, The PICTEX macro package, 1987-09-21.CTAN:graphics/pictex/
- [8] Markus Kohm, KOMA-Script Datei scrlogo.dtx, 2009-01-30. CTAN:install/macros/latex/contrib/komascript.tds.zip

7 History

[2010/04/08 v1.0]

• The first version.

[2010/04/16 v1.1]

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

[2010/04/24 v1.2]

- LATEX3 added.
- VTEX added.

[2010/11/21 v1.3]

• iniT_EX, virT_EX added.

[2011/03/25 v1.4]

- \bullet 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: (IA)TEX, biber, BIBTEX (sc, sf), emTEX, ε_X TEX, KOMA-Script, IA, IYX, MiKTEX, $\mathcal{N}_T\mathcal{S}$, OzMF, OzMP, OzTEX, OzTtH, PCTEX, PIC, PICTEX, METAFONT, MetaFun, METAPOST, MetaPost, SIJTEX (lift, narrow, simple), SLITEX (narrow, simple, lift), teTEX.
- Fixes: iniT_EX, pdfI_ET_EX, pdfT_EX, virT_EX.
- \hologoFontSetup and \hologoLogoFontSetup added.
- \hologoVariant and \HologoVariant added.

[2011/11/22 v1.7]

- New logos: BibTeX8, LaTexml, SageTeX, TeX4ht, T_TH .
- X_T and friends: Driver stuff fixed.
- X₇ and friends: Support for italic added.
- X_H 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 if xetex added for the case that \newif is undefined in iniT_FX.
- Some fixes for iniT_FX.

[2012/04/26 v1.10]

• Fix in bookmark version of logo "Hàn Thế Thành".

[2016/05/12 v1.11]

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

[2016/05/16 v1.12]

• Documentation updates.

[2017/05/01 v1.13]

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

8 Index

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