

The `hologo` package

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Abstract

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

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1 Documentation

1.1 Logo macros

`\hologo {⟨name⟩}`

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

name	variant	logo	since
AmSLaTeX		$\mathcal{A}\mathcal{M}\mathcal{S}\text{-}\mathbb{L}\text{A}\text{T}_{\text{E}}\text{X}$	2010/04/16
AmSTeX		$\mathcal{A}\mathcal{M}\mathcal{S}\text{-}\text{T}_{\text{E}}\text{X}$	2010/04/16
eTeX		$\varepsilon\text{-}\text{T}_{\text{E}}\text{X}$	2010/04/08
LaTeX		$\mathbb{L}\text{A}\text{T}_{\text{E}}\text{X}$	2010/04/08
LaTeX2e		$\mathbb{L}\text{A}\text{T}_{\text{E}}\text{X } 2_{\varepsilon}$	2010/04/08
LaTeXe		$\mathbb{L}\text{A}\text{T}_{\text{E}}\text{X } 2_{\varepsilon}$	2010/04/08
LuaLaTeX		Lua $\mathbb{L}\text{A}\text{T}_{\text{E}}\text{X}$	2010/04/08
LuaTeX		Lua $\text{T}_{\text{E}}\text{X}$	2010/04/08
pdfTeX		pdf $\text{T}_{\text{E}}\text{X}$	2010/04/08
pdfLaTeX		pdf $\mathbb{L}\text{A}\text{T}_{\text{E}}\text{X}$	2010/04/08
plainTeX		plain $\text{T}_{\text{E}}\text{X}$	2010/04/08
plainTeX	space	plain $\text{T}_{\text{E}}\text{X}$	2010/04/16
plainTeX	hyphen	plain- $\text{T}_{\text{E}}\text{X}$	2010/04/16
plainTeX	runtogether	plain $\text{T}_{\text{E}}\text{X}$	2010/04/16
TeX		$\text{T}_{\text{E}}\text{X}$	2010/04/08
XeLaTeX		X $\mathbb{L}\text{A}\text{T}_{\text{E}}\text{X}$	2010/04/08
XeTeX		X $\mathbb{L}\text{T}_{\text{E}}\text{X}$	2010/04/08

`\Hologo {⟨name⟩}`

Macro `\Hologo` starts the logo $\langle name \rangle$ with an uppercase letter.

1.2 Setup macros

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

`\hologoSetup {⟨key value list⟩}`

Macro `\hologoSetup` sets global options.

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

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

1.3 Options

There are boolean and string options:

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

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

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

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

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

spacebreak: enables or disables line breaks at space characters.

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.
```

2 Implementation

```
1 (*package)
```

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

```
2 \begingroup
3 \catcode44 12 % ,
4 \catcode45 12 % -
5 \catcode46 12 % .
6 \catcode58 12 % :
7 \catcode64 11 % @
8 \catcode123 1 % {
9 \catcode125 2 % }
10 \expandafter\let\expandafter\x\csname ver@hologo.sty\endcsname
11 \ifx\x\relax % plain-TeX, first loading
12 \else
13 \def\empty{}%
14 \ifx\x\empty % LaTeX, first loading,
15 % variable is initialized, but \ProvidesPackage not yet seen
16 \else
17 \catcode35 6 % #
18 \expandafter\ifx\csname PackageInfo\endcsname\relax
19 \def\x#1#2{%
20 \immediate\write-1{Package #1 Info: #2.}%
21 }%
22 \else
23 \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
24 \fi
25 \x{hologo}{The package is already loaded}%
26 \aftergroup\endinput
27 \fi
28 \fi
29 \endgroup
```

Package identification:

```
30 \begingroup
31 \catcode35 6 % #
32 \catcode40 12 % (
33 \catcode41 12 % )
34 \catcode44 12 % ,
35 \catcode45 12 % -
36 \catcode46 12 % .
37 \catcode47 12 % /
38 \catcode58 12 % :
```

```

39 \catcode64 11 % @
40 \catcode91 12 % [
41 \catcode93 12 % ]
42 \catcode123 1 % {
43 \catcode125 2 % }
44 \expandafter\ifx\csname ProvidesPackage\endcsname\relax
45 \def\x#1#2#3[#4]{\endgroup
46 \immediate\write-1{Package: #3 #4}%
47 \xdef#1{#4}%
48 }%
49 \else
50 \def\x#1#2[#3]{\endgroup
51 #2[#3]}%
52 \ifx#1\@undefined
53 \xdef#1{#3}%
54 \fi
55 \ifx#1\relax
56 \xdef#1{#3}%
57 \fi
58 }%
59 \fi
60 \expandafter\x\csname ver@hologo.sty\endcsname
61 \ProvidesPackage{hologo}%
62 [2010/04/16 v1.1 Logo collection (HO)]
63 \begingroup
64 \catcode123 1 % {
65 \catcode125 2 % }
66 \def\x{\endgroup
67 \expandafter\edef\csname HOLOGO@AtEnd\endcsname{%
68 \catcode35 \the\catcode35\relax
69 \catcode64 \the\catcode64\relax
70 \catcode123 \the\catcode123\relax
71 \catcode125 \the\catcode125\relax
72 }%
73 }%
74 \x
75 \catcode35 6 % #
76 \catcode64 11 % @
77 \catcode123 1 % {
78 \catcode125 2 % }
79 \def\TMP@EnsureCode#1#2{%
80 \edef\HOLOGO@AtEnd{%
81 \HOLOGO@AtEnd
82 \catcode#1 \the\catcode#1\relax
83 }%
84 \catcode#1 #2\relax
85 }
86 \TMP@EnsureCode{10}{12}% ^^J
87 \TMP@EnsureCode{33}{12}% !
88 \TMP@EnsureCode{36}{3}% $
89 \TMP@EnsureCode{39}{12}% '
90 \TMP@EnsureCode{40}{12}% (
91 \TMP@EnsureCode{41}{12}% )
92 \TMP@EnsureCode{42}{12}% *
93 \TMP@EnsureCode{43}{12}% +
94 \TMP@EnsureCode{44}{12}% ,
95 \TMP@EnsureCode{45}{12}% -
96 \TMP@EnsureCode{46}{12}% .
97 \TMP@EnsureCode{47}{12}% /
98 \TMP@EnsureCode{58}{12}% :
99 \TMP@EnsureCode{59}{12}% ;
100 \TMP@EnsureCode{60}{12}% <

```

```

101 \TMP@EnsureCode{61}{12}% =
102 \TMP@EnsureCode{62}{12}% >
103 \TMP@EnsureCode{63}{12}% ?
104 \TMP@EnsureCode{91}{12}% [
105 \TMP@EnsureCode{93}{12}% ]
106 \TMP@EnsureCode{94}{7}% ^ (superscript)
107 \TMP@EnsureCode{95}{8}% _ (subscript)
108 \TMP@EnsureCode{96}{12}% '
109 \TMP@EnsureCode{124}{12}% |
110 \edef\HOLGO@AtEnd{%
111   \HOLGO@AtEnd
112   \escapechar\the\escapechar\relax
113   \noexpand\endinput
114 }
115 \escapechar=92 %

```

2.1 Load resources

```

116 \begingroup\expandafter\expandafter\expandafter\endgroup
117 \expandafter\ifx\csname RequirePackage\endcsname\relax
118   \input ltxcmds.sty\relax
119   \input infwarerr.sty\relax
120   \input kvsetkeys.sty\relax
121   \input kvdefinekeys.sty\relax
122   \input pdftexcmds.sty\relax
123   \input ifpdf.sty\relax
124   \input ifluatex.sty\relax
125   \input ifxetex.sty\relax
126   \input ifvtex.sty\relax
127 \else
128   \RequirePackage{ltxcmds}[2010/04/16]%
129   \RequirePackage{infwarerr}[2010/04/08]%
130   \RequirePackage{kvsetkeys}[2010/03/01]%
131   \RequirePackage{kvdefinekeys}[2010/03/01]%
132   \RequirePackage{pdftexcmds}[2010/04/01]%
133   \RequirePackage{ifpdf}[2010/01/28]%
134   \RequirePackage{ifluatex}[2010/03/01]%
135   \RequirePackage{ifxetex}[2009/01/23]%
136   \RequirePackage{ifvtex}[2010/03/01]%
137 \fi

```

\HOLGO@IfDefined

```

138 \def\HOLGO@IfExists#1{%
139   \ifx\@undefined#1%
140     \expandafter\ltx@secondoftwo
141   \else
142     \ifx\relax#1%
143       \expandafter\ltx@secondoftwo
144     \else
145       \expandafter\expandafter\expandafter\ltx@firstoftwo
146     \fi
147   \fi
148 }

```

2.2 Setup macros

\hologoSetup

```

149 \def\hologoSetup{%
150   \let\HOLGO@name\relax
151   \HOLGO@Setup
152 }

```

\hologoLogoSetup

```

153 \def\hologoLogoSetup#1{%
154   \edef\HOLOGO@name{#1}%
155   \ltx@ifundefined{HoLogo@\HOLOGO@name}{%
156     \@PackageError{hologo}{%
157       Unknown logo '\HOLOGO@name'%
158     }\@ehc
159     \@gobble
160   }{%
161     \HOLOGO@Setup
162   }%
163 }

```

\HOLOGO@Setup

```

164 \def\HOLOGO@Setup{%
165   \kvsetkeys{HoLogo}%
166 }

```

2.3 Options

\HOLOGO@DefineBoolOption

```

167 \def\HOLOGO@DeclareBoolOption#1{%
168   \expandafter\chardef\csname HOLOGOOPT@#1\endcsname\ltx@zero
169   \kv@define@key{HoLogo}{#1}[true]{%
170     \def\HOLOGO@temp{##1}%
171     \ifx\HOLOGO@temp\HOLOGO@true
172       \ifx\HOLOGO@name\relax
173         \expandafter\chardef\csname HOLOGOOPT@#1\endcsname=\ltx@one
174       \else
175         \expandafter\chardef\csname
176           HoLogoOpt@#1@\HOLOGO@name\endcsname\ltx@one
177       \fi
178       \HOLOGO@SetBreakAll{#1}%
179     \else
180       \ifx\HOLOGO@temp\HOLOGO@false
181         \ifx\HOLOGO@name\relax
182           \expandafter\chardef\csname HOLOGOOPT@#1\endcsname=\ltx@zero
183         \else
184           \expandafter\chardef\csname
185             HoLogoOpt@#1@\HOLOGO@name\endcsname=\ltx@zero
186         \fi
187         \HOLOGO@SetBreakAll{#1}%
188       \else
189         \@PackageError{hologo}{%
190           Unknown value '##1' for boolean option '#1'.\MessageBreak
191           Known values are 'true' and 'false'%
192         }\@ehc
193       \fi
194     \fi
195   }%
196 }

```

\HOLOGO@SetBreakAll

```

197 \def\HOLOGO@SetBreakAll#1{%
198   \def\HOLOGO@temp{#1}%
199   \ifx\HOLOGO@temp\HOLOGO@break
200     \ifx\HOLOGO@name\relax
201       \chardef\HOLOGOOPT@hyphenbreak=\HOLOGOOPT@break
202       \chardef\HOLOGOOPT@spacebreak=\HOLOGOOPT@break
203     \else
204       \expandafter\chardef
205         \csname HoLogoOpt@hyphenbreak@\HOLOGO@name\endcsname=%
206       \csname HoLogoOpt@break@\HOLOGO@name\endcsname

```

```

207     \expandafter\chardef
208     \csname HoLogoOpt@spacebreak@\HOLOGO@name\endcsname=%
209     \csname HoLogoOpt@break@\HOLOGO@name\endcsname
210     \fi
211     \fi
212 }

\HOLOGO@true

213 \def\HOLOGO@true{true}

\HOLOGO@false

214 \def\HOLOGO@false{false}

\HOLOGO@break

215 \def\HOLOGO@break{break}

216 \HOLOGO@DeclareBoolOption{break}
217 \HOLOGO@DeclareBoolOption{hyphenbreak}
218 \HOLOGO@DeclareBoolOption{spacebreak}

219 \kv@define@key{HoLogo}{variant}{%
220   \ifx\HOLOGO@name\relax
221     \@PackageError{hologo}{%
222       Option ‘variant’ is not available in \string\hologoSetup,%
223       \MessageBreak
224       Use \string\hologoLogoSetup\space instead%
225     }\@ehc
226   \else
227     \edef\HOLOGO@temp{#1}%
228     \ifx\HOLOGO@temp\ltx@empty
229       \expandafter
230       \let\csname HoLogoOpt@variant@\HOLOGO@name\endcsname\@undefined
231     \else
232       \ltx@ifundefined{HoLogo@\HOLOGO@name @\HOLOGO@temp}{%
233         \@PackageError{hologo}{%
234           Unknown variant ‘\HOLOGO@temp’ of logo ‘\HOLOGO@name’%
235         }\@ehc
236       }{%
237         \expandafter
238         \let\csname HoLogoOpt@variant@\HOLOGO@name\endcsname
239           \HOLOGO@temp
240       }%
241     \fi
242   \fi
243 }

\HOLOGO@Variant

244 \def\HOLOGO@Variant#1{%
245   #1%
246   \ltx@ifundefined{HoLogoOpt@variant@#1}{%
247     }{%
248       @\csname HoLogoOpt@variant@#1\endcsname
249     }%
250 }

```

2.4 Break/no-break support

```

\HOLOGO@space

251 \def\HOLOGO@space{%
252   \ltx@ifundefined{HoLogoOpt@spacebreak@\HOLOGO@name}{%
253     \ltx@ifundefined{HoLogoOpt@break@\HOLOGO@name}{%
254       \chardef\HOLOGO@temp=\HOLOGO@OPT@spacebreak

```

```

255 }{%
256   \chardef\HOLOGO@temp=%
257   \csname HoLogoOpt@break@\HOLOGO@name\endcsname
258 }%
259 }{%
260   \chardef\HOLOGO@temp=%
261   \csname HoLogoOpt@spacebreak@\HOLOGO@name\endcsname
262 }%
263 \ifcase\HOLOGO@temp
264   \penalty10000 %
265 \fi
266 \ltx@space
267 }

```

\HOLOGO@hyphen

```

268 \def\HOLOGO@hyphen{%
269   \ltx@ifundefined{HoLogoOpt@hyphenbreak@\HOLOGO@name}{%
270     \ltx@ifundefined{HoLogoOpt@break@\HOLOGO@name}{%
271       \chardef\HOLOGO@temp=\HOLOGO@OPT@hyphenbreak
272     }{%
273       \chardef\HOLOGO@temp=%
274       \csname HoLogoOpt@break@\HOLOGO@name\endcsname
275     }%
276   }{%
277     \chardef\HOLOGO@temp=%
278     \csname HoLogoOpt@hyphenbreak@\HOLOGO@name\endcsname
279   }%
280   \ifcase\HOLOGO@temp
281     \ltx@mbox{-}%
282   \else
283     -%
284   \fi
285 }

```

\HOLOGO@mbox

```

286 \def\HOLOGO@mbox#1{%
287   \ltx@ifundefined{HoLogoOpt@break@\HOLOGO@name}{%
288     \chardef\HOLOGO@temp=\HOLOGO@OPT@hyphenbreak
289   }{%
290     \chardef\HOLOGO@temp=%
291     \csname HoLogoOpt@break@\HOLOGO@name\endcsname
292   }%
293   \ifcase\HOLOGO@temp
294     \ltx@mbox{#1}%
295   \else
296     #1%
297   \fi
298 }

```

2.5 \hologo

```

299 \HOLOGO@IfExists\hologo{%
300   \@PackageError{hologo}{%
301     \string\hologo\ltx@space is already defined.\MessageBreak
302     Package loading is aborted%
303   }\@ehc
304   \HOLOGO@AtEnd
305 }
306 \HOLOGO@IfExists\hologorobust{%
307   \@PackageError{hologo}{%
308     \string\hologorobust\ltx@space is already defined.\MessageBreak
309     Package loading is aborted%

```



```

310 } \@ehc
311 \HLOGO@AtEnd
312 }

\hologorobust

313 \ltx@ifundefined{protected}{%
314 \ltx@ifundefined{DeclareRobustCommand}{%
315 \def\hologorobust#1%
316 }{%
317 \DeclareRobustCommand*\hologorobust[1]%
318 }%
319 }{%
320 \protected\def\hologorobust#1%
321 }%
322 {%
323 \edef\HLOGO@name{#1}%
324 \ltx@ifundefined{HoLogo@\HLOGO@Variant\HLOGO@name}{%
325 \@PackageError{hologo}{%
326 Unknown logo '\HLOGO@name'%
327 } \@ehc
328 ?\HLOGO@name?%
329 }{%
330 \csname HoLogo@\HLOGO@Variant\HLOGO@name\endcsname\ltx@firstoftwo
331 }%
332 }

\hologo

333 \def\hologo#1{%
334 \HLOGO@ifexists\texorpdfstring\texorpdfstring\ltx@firstoftwo
335 {%
336 \hologorobust{#1}%
337 }{%
338 \ltx@ifundefined{HoLogoBkm@\HLOGO@Variant{#1}}{%
339 \ltx@ifundefined{HoLogo@#1}{?#1?}{#1}%
340 }{%
341 \csname HoLogoBkm@\HLOGO@Variant{#1}\endcsname\ltx@firstoftwo
342 }%
343 }%
344 }

\Hologorobust

345 \ltx@ifundefined{protected}{%
346 \ltx@ifundefined{DeclareRobustCommand}{%
347 \def\Hologorobust#1%
348 }{%
349 \DeclareRobustCommand*\Hologorobust[1]%
350 }%
351 }{%
352 \protected\def\Hologorobust#1%
353 }%
354 {%
355 \edef\HLOGO@name{#1}%
356 \ltx@ifundefined{HoLogo@\HLOGO@Variant\HLOGO@name}{%
357 \@PackageError{hologo}{%
358 Unknown logo '\HLOGO@name'%
359 } \@ehc
360 ?\HLOGO@name?%
361 }{%
362 \csname HoLogo@\HLOGO@Variant\HLOGO@name\endcsname\ltx@secondoftwo
363 }%
364 }

```

\Hologo

```
365 \def\Hologo#1{%
366   \Hologo@IfExists\texorpdfstring\texorpdfstring\ltx@firstoftwo
367   {%
368     \Hologorobust{#1}%
369   }{%
370     \ltx@ifundefined{HoLogoBkm@\Hologo@Variant{#1}}{%
371       \ltx@ifundefined{HoLogo@#1}{?#1?}{#1}%
372     }{%
373       \csname HoLogoBkm@\Hologo@Variant{#1}\endcsname\ltx@secondoftwo
374     }%
375   }%
376 }
```

2.6 Helpers

\Hologo@PdfdocUnicode

```
377 \def\Hologo@PdfdocUnicode{%
378   \ifx\ifHy@unicode\iftrue
379     \expandafter\ltx@secondoftwo
380   \else
381     \expandafter\ltx@firstoftwo
382   \fi
383 }
```

\Hologo@Math

```
384 \def\Hologo@MathSetup{%
385   \mathsurroundOpt\relax
386   \Hologo@IfExists\f@series{%
387     \if b\expandafter\ltx@car\f@series x\@nil
388     \csname boldmath\endcsname
389   \fi
390   }{%}%
391 }
```

\Hologo@TempDimen

```
392 \dimendef\Hologo@TempDimen=\ltx@zero
```

\Hologo@NegativeKerning

```
393 \def\Hologo@NegativeKerning#1{%
394   \begingroup
395     \Hologo@TempDimen=0pt\relax
396     \comma@parse@normalized{#1}{%
397       \ifdim\Hologo@TempDimen=0pt %
398         \expandafter\Hologo@@NegativeKerning\comma@entry
399       \fi
400       \ltx@gobble
401     }%
402     \ifdim\Hologo@TempDimen<0pt %
403       \kern\Hologo@TempDimen
404     \fi
405   \endgroup
406 }
```

\Hologo@@NegativeKerning

```
407 \def\Hologo@@NegativeKerning#1#2{%
408   \setbox\ltx@zero\hbox{#1#2}%
409   \Hologo@TempDimen=\wd\ltx@zero
410   \setbox\ltx@zero\hbox{#1\kern0pt#2}%
411   \advance\Hologo@TempDimen by -\wd\ltx@zero
412 }
```

2.7 T_EX and friends

2.7.1 T_EX

\HoLogo@TeX Source: L^AT_EX kernel.

```
413 \def\HoLogo@TeX#1{%  
414   T\kern-.1667em\lower.5ex\hbox{E}\kern-.125emX\spacefactor1000 %  
415 }
```

2.7.2 plain T_EX

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

```
416 \def\HoLogo@plainTeX@space#1{%  
417   \HOLOGO@mbox{#1{p}{P}lain}\HOLOGO@space\hologo{TeX}%  
418 }
```

\HoLogoBkm@plainTeX@space

```
419 \def\HoLogoBkm@plainTeX@space#1{%  
420   #1{p}{P}lain \hologo{TeX}%  
421 }
```

\HoLogo@plainTeX@hyphen

```
422 \def\HoLogo@plainTeX@hyphen#1{%  
423   \HOLOGO@mbox{#1{p}{P}lain}\HOLOGO@hyphen\hologo{TeX}%  
424 }
```

\HoLogoBkm@plainTeX@hyphen

```
425 \def\HoLogoBkm@plainTeX@hyphen#1{%  
426   #1{p}{P}lain-\hologo{TeX}%  
427 }
```

\HoLogo@plainTeX@runtogether

```
428 \def\HoLogo@plainTeX@runtogether#1{%  
429   \HOLOGO@mbox{#1{p}{P}lain\hologo{TeX}}}%  
430 }
```

\HoLogoBkm@plainTeX@runtogether

```
431 \def\HoLogoBkm@plainTeX@runtogether#1{%  
432   #1{p}{P}lain\hologo{TeX}%  
433 }
```

\HoLogo@plainTeX

```
434 \def\HoLogo@plainTeX{\HoLogo@plainTeX@space}
```

\HoLogoBkm@plainTeX

```
435 \def\HoLogoBkm@plainTeX{\HoLogoBkm@plainTeX@space}
```

2.7.3 L^AT_EX

\HoLogo@LaTeX Source: L^AT_EX kernel.

```
436 \def\HoLogo@LaTeX#1{%  
437   L%  
438   \kern-.36em%  
439   \begingroup  
440     \setbox\ltx@zero\hbox{T}%  
441     \vbox to\ht\ltx@zero{%  
442       \hbox{%  
443         \ltx@ifundefined{check@mathfonts}{%  
444           \csname sevenrm\endcsname  
445         }{%
```

```

446         \check@mathfonts
447         \fontsize\sf@size\z@
448         \math@fontsfalse\selectfont
449     }%
450     A%
451 }%
452 \vss
453 }%
454 \endgroup
455 \kern-.15em%
456 \hologo{TeX}%
457 }

```

2.7.4 L^AT_EX 2_ε

\HoLogo@LaTeXe Source: L^AT_EX kernel

```

458 \def\HoLogo@LaTeXe#1{%
459   \hologo{LaTeX}%
460   \kern.15em%
461   \hbox{%
462     \HOLOGO@MathSetup
463     2%
464     $_{\textstyle\varepsilon}$%
465   }%
466 }

```

\HoLogoBkm@LaTeXe

```

467 \def\HoLogoBkm@LaTeXe#1{%
468   \hologo{LaTeX}%
469   2%
470   \HOLOGO@PdfdocUnicode{e}{\textepsilon}%
471 }

```

\HoLogo@LaTeX2e

```

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

```

\HoLogoBkm@LaTeX2e

```

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

```

2.7.5 ε-_{TEX}

\HoLogo@eTeX Source: package etex

```

474 \def\HoLogo@eTeX#1{%
475   \ltx@mbbox{%
476     \hbox{%
477       \HOLOGO@MathSetup
478       $_\varepsilon$%
479       -%
480       \HOLOGO@NegativeKerning{-T,T-,To}%
481       \hologo{TeX}%
482     }%
483   }%
484 }

```

\HoLogoBkm@eTeX

```

485 \def\HoLogoBkm@eTeX#1{%
486   \HOLOGO@PdfdocUnicode{#1{e}{E}}{\textepsilon}%
487   -%
488   \hologo{TeX}%
489 }

```

2.7.6 LuaTeX

`\HoLogo@LuaTeX` The kerning is an idea of Hans Hagen, see mailing list ‘luatex at tug dot org’ in March 2010.

```
490 \def\HoLogo@LuaTeX#1{%
491   \HLOGO@mbbox{%
492     Lua%
493     \HLOGO@NegativeKerning{aT,oT,To}%
494     \hologo{TeX}%
495   }%
496 }
```

2.7.7 LuaLaTeX

`\HoLogo@LuaLaTeX`

```
497 \def\HoLogo@LuaLaTeX#1{%
498   \HLOGO@mbbox{%
499     Lua%
500     \hologo{LaTeX}%
501   }%
502 }
```

2.7.8 XeTeX, XeLaTeX

`\HoLogo@Xe` Source: package dtklogos

```
503 \def\HoLogo@Xe#1{%
504   X%
505   \kern-.1em\relax
506   \ltx@ifundefined{HLOGO@ReflectBox}\ltx@firstoftwo{%
507     \ltx@ifundefined{HLOGO@ReflectBox@hologodriver}%
508     \ltx@firstoftwo\ltx@secondoftwo
509   }%
510   {e}{%
511     \lower.5ex\hbox{%
512       \HLOGO@ReflectBox{E}%
513     }%
514   }%
515 }
```

`\HoLogo@XeTeX`

```
516 \def\HoLogo@XeTeX#1{%
517   \hologo{Xe}%
518   \kern-.15em\relax
519   \hologo{TeX}%
520 }
```

`\HoLogoBkm@XeTeX`

```
521 \def\HoLogoBkm@XeTeX#1{XeTeX}
```

`\HoLogo@XeLaTeX`

```
522 \def\HoLogo@XeLaTeX#1{%
523   \hologo{Xe}%
524   \hologo{LaTeX}%
525 }
```

2.7.9 pdfTeX, pdfLaTeX

`\HoLogo@pdfTeX`

```
526 \def\HoLogo@pdfTeX#1{%
527   \HLOGO@mbbox{%
```

```

528     #1{p}{P}df\hologo{TeX}%
529 }%
530 }

```

\HoLogo@pdfLaTeX

```

531 \def\HoLogo@pdfLaTeX#1{%
532   \HOLOGO@mbbox{%
533     #1{p}{P}df\hologo{LaTeX}%
534   }%
535 }

```

2.7.10 $\mathcal{A}\mathcal{M}\mathcal{S}$, ...

Source: class amsdtx

\HoLogo@AmS

```

536 \def\HoLogo@AmS#1{%
537   \begingroup
538     \usefont{OMS}{cmsy}{m}{n}%
539     A%
540     \kern-.1667em%
541     \lower.5ex\hbox{M}%
542     \kern-.125em%
543     S%
544   \endgroup
545 }

```

\HoLogoBkm@AmS

```

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

```

\HoLogo@AmSTeX

```

547 \def\HoLogo@AmSTeX#1{%
548   \hologo{AmS}%
549   \HOLOGO@hyphen
550   \hologo{TeX}%
551 }

```

\HoLogoBkm@AmSTeX

```

552 \def\HoLogoBkm@AmSLaTeX#1{AmS-TeX}%

```

\HoLogo@AmSLaTeX

```

553 \def\HoLogo@AmSLaTeX#1{%
554   \hologo{AmS}%
555   \HOLOGO@hyphen
556   \hologo{LaTeX}%
557 }

```

\HoLogoBkm@AmSLaTeX

```

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

```

2.8 Driver detection

```

559 \HOLOGO@IfExists\InputIfFileExists{%
560   \InputIfFileExists{hologo.cfg}{-}{-}%
561 }{-}%
562 \ltx@ifundefined{pdf@filesize}{%
563   \chardef\HOLOGO@temp=15 %
564   \def\HOLOGO@CheckRead{%
565     \ifeof\HOLOGO@temp
566     \else
567       \ifcase\HOLOGO@temp

```

```

568         \csname newread\endcsname\HOLOGO@temp
569     \else
570         \begingroup
571         \count\ltx@cclv=\HOLOGO@temp
572         \advance\ltx@cclv by -1 %
573         \edef\x{\endgroup
574             \chardef\noexpand\HOLOGO@temp=\the\count\ltx@cclv\relax
575         }%
576         \x
577         \expandafter\expandafter\expandafter\HOLOGO@CheckRead
578     \fi
579 \fi
580 }%
581 \ifeof\HOLOGO@temp
582     \@PackageWarningNoLine{hologo}{%
583         Configuration file ignored, because\MessageBreak
584         a free read register could not be found%
585     }%
586 \else
587     \openin\HOLOGO@temp=hologo.cfg\relax
588     \ifeof\HOLOGO@temp
589         \closein\HOLOGO@temp
590     \else
591         \closein\HOLOGO@temp
592         \input hologo.cfg\relax
593     \fi
594 \fi
595 }{%
596     \edef\HOLOGO@temp{\pdf@filesize{hologo.cfg}}%
597     \ifx\HOLOGO@temp\ltx@empty
598     \else
599         \input hologo.cfg\relax
600     \fi
601 }%
602 }

603 \ltx@ifundefined{DeclareOption}{%
604     \ltx@gobble
605 }{%
606     \ltx@ifundefined{ProcessOptions}\ltx@gobble\ltx@firstofone
607 }%
608 {%
609     \def\HOLOGO@temp#1#2{%
610         \DeclareOption{#1}{\edef\hologodriver{#2}}%
611     }%
612     \kv@parse@normalized{%
613         pdftex,%
614         luatex=pdftex,%
615         dvipdfm,%
616         dvipdfmx=dvipdfm,%
617         dvips,%
618         dvipsone=dvips,%
619         xdvi=dvips,%
620         xetex,%
621         vtex,%
622     }{%
623         \ifx\kv@value\relax
624             \expandafter\HOLOGO@temp\expandafter{\kv@key}\kv@key
625         \else
626             \expandafter\HOLOGO@temp\expandafter{\kv@key}\kv@value
627         \fi
628         \ltx@gobbletwo
629     }%

```

```

630 \ProcessOptions*%
631 }

\hologodriver
632 \ifpdf
633 \def\hologodriver{pdftex}%
634 \let\HOLOGO@pdfliteral\pdfliteral
635 \ifluatex
636 \ltx@ifundefined{HOLOGO@pdfliteral}{%
637 \ifnum\luatexversion<36 %
638 \else
639 \begingroup
640 \let\HOLOGO@temp\endgroup
641 \ifcase0%
642 \directlua{%
643 if tex.enableprimitives then %
644 tex.enableprimitives('HOLOGO@', {'pdfliteral'})%
645 else %
646 tex.print('1')%
647 end%
648 }%
649 \ifx\HOLOGO@pdfliteral\@undefined 1\fi%
650 \relax%
651 \endgroup
652 \let\HOLOGO@temp\relax
653 \global\let\HOLOGO@pdfliteral\HOLOGO@pdfliteral
654 \fi%
655 \HOLOGO@temp
656 \fi
657 }{}%
658 \fi
659 \ltx@ifundefined{HOLOGO@pdfliteral}{%
660 \@PackageWarningNoLine{hologo}{%
661 Cannot find \string\pdfliteral
662 }%
663 }{}%
664 \else
665 \ifxetex
666 \def\hologodriver{xetex}%
667 \else
668 \ifvtex
669 \def\hologodriver{vtex}%
670 \fi
671 \fi
672 \fi

\HOLOGO@ReflectBox
673 \ltx@ifundefined{reflectbox}{}{%
674 \def\HOLOGO@ReflectBox{%
675 \reflectbox
676 }%
677 \HOLOGO@AtEnd
678 }
679 \ltx@ifundefined{hologodriver}{%
680 \def\hologodriver{dvips}%
681 \@PackageInfoNoLine{hologo}{Using default driver '\hologodriver'}%
682 }{}%
683 \@PackageInfoNoLine{hologo}{Using driver '\hologodriver'}%
684 }
685 \def\HOLOGO@ReflectBox#1{%
686 \ltx@ifundefined{HOLOGO@ReflectBox@\hologodriver}{%
687 \@PackageWarning{hologo}{%
688 Driver '\hologodriver' misses support for \string\reflectbox

```



```

689 }%
690 #1%
691 }{%
692 \beginngroup
693 \setbox\ltx@zero\hbox{\beginngroup#1\endgroup}%
694 \setbox\ltx@two\hbox{%
695 \kern\wd\ltx@zero
696 \csname HOLOGO@ReflectBox@\hologodriver\endcsname{%
697 \hbox to Opt{\copy\z@\hss}%
698 }%
699 }%
700 \wd\ltx@two=\wd\ltx@zero
701 \box\ltx@two
702 \endgroup
703 }%
704 }

705 \def\HOLOGO@temp#1{%
706 \beginngroup
707 \def\x{#1}%
708 \expandafter\endgroup
709 \ifx\x\hologodriver
710 \expandafter\ltx@firstofone
711 \else
712 \expandafter\ltx@gobble
713 \fi
714 }

```

\HOLOGO@ReflectBox@pdftex

```

715 \HOLOGO@temp{pdftex}{%
716 \def\HOLOGO@ReflectBox@pdftex#1{%
717 \HOLOGO@pdfliteral{%
718 q -1 0 0 1 0 0 cm%
719 }%
720 #1%
721 \HOLOGO@pdfliteral{%
722 Q%
723 }%
724 }%
725 }

```

\HOLOGO@ReflectBox@dvips

```

726 \HOLOGO@temp{dvips}{%
727 \def\HOLOGO@ReflectBox@dvips#1{%
728 \special{ps:%
729 gsave %
730 currentpoint %
731 currentpoint translate %
732 -1 1 scale %
733 neg exch neg exch translate%
734 }%
735 #1%
736 \special{ps:%
737 currentpoint %
738 grestore %
739 moveto%
740 }%
741 }%
742 }

```

\HOLOGO@ReflectBox@dvipdfm

```

743 \HOLOGO@temp{dvipdfm}{%

```

```

744 \let\HOLGO@ReflectBox@dvi pdfm\HOLGO@ReflectBox@dvi ps
745 }

```

Since X_YTeX v0.6.

\HOLGO@ReflectBox@xetex

```

746 \HOLGO@temp{xetex}{%
747   \def\HOLGO@ReflectBox@xetex#1{%
748     \special{x:gsave}%
749     \special{x:scale -1 1}%
750     #1%
751     \special{x:grestore}%
752   }%
753 }

```

\HOLGO@ReflectBox@vtx

```

754 \HOLGO@temp{vtx}{%
755   \def\HOLGO@ReflectBox@vtx#1{%
756     \special{r(-1,0,0,1,0,0}%
757     #1%
758     \special{r})}%
759   }%
760 }

```

```

761 \HOLGO@AtEnd
762 </package>

```

3 Test

3.1 Catcode checks for loading

```

763 (*test1)
764 \catcode'\{=1 %
765 \catcode'\}=2 %
766 \catcode'\#=6 %
767 \catcode'\@=11 %
768 \expandafter\ifx\csname count@\endcsname\relax
769   \countdef\count@=255 %
770 \fi
771 \expandafter\ifx\csname @gobble\endcsname\relax
772   \long\def\@gobble#1{%
773 \fi
774 \expandafter\ifx\csname @firstofone\endcsname\relax
775   \long\def\@firstofone#1{#1}%
776 \fi
777 \expandafter\ifx\csname loop\endcsname\relax
778   \expandafter\@firstofone
779 \else
780   \expandafter\@gobble
781 \fi
782 {%
783   \def\loop#1\repeat{%
784     \def\body{#1}%
785     \iterate
786   }%
787   \def\iterate{%
788     \body
789     \let\next\iterate
790   \else
791     \let\next\relax
792   \fi

```

```

793     \next
794 }%
795 \let\repeat=\fi
796 }%
797 \def\RestoreCatcodes{}
798 \count@=0 %
799 \loop
800   \edef\RestoreCatcodes{%
801     \RestoreCatcodes
802     \catcode\the\count@=\the\catcode\count@\relax
803   }%
804 \ifnum\count@<255 %
805   \advance\count@ 1 %
806 \repeat
807
808 \def\RangeCatcodeInvalid#1#2{%
809   \count@=#1\relax
810   \loop
811     \catcode\count@=15 %
812   \ifnum\count@<#2\relax
813     \advance\count@ 1 %
814   \repeat
815 }
816 \expandafter\ifx\csname LoadCommand\endcsname\relax
817   \def\LoadCommand{\input hologo.sty\relax}%
818 \fi
819 \def\Test{%
820   \RangeCatcodeInvalid{0}{47}%
821   \RangeCatcodeInvalid{58}{64}%
822   \RangeCatcodeInvalid{91}{96}%
823   \RangeCatcodeInvalid{123}{255}%
824   \catcode'\@=12 %
825   \catcode'\=0 %
826   \catcode'\{=1 %
827   \catcode'\}=2 %
828   \catcode'\#=6 %
829   \catcode'\[=12 %
830   \catcode'\]=12 %
831   \catcode'\%=14 %
832   \catcode'\ =10 %
833   \catcode13=5 %
834   \LoadCommand
835   \RestoreCatcodes
836 }
837 \Test
838 \csname @@end\endcsname
839 \end
840 </test1>

```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

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

[CTAN:macros/latex/contrib/oberdiek/hologo.pdf](http://ctan.org/macros/latex/contrib/oberdiek/hologo.pdf) Documentation.

¹[ftp://ftp.ctan.org/tex-archive/](http://ftp.ctan.org/tex-archive/)

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

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

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

4.2 Bundle installation

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

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

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

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

4.3 Package installation

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

```
tex hologo.dtx
```

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

```
hologo.sty      → tex/generic/oberdiek/hologo.sty
hologo-test1.tex → tex/generic/oberdiek/hologo-test1.tex
hologo.pdf      → doc/latex/oberdiek/hologo.pdf
hologo.dtx      → source/latex/oberdiek/hologo.dtx
```

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

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

Attached source. The PDF documentation on CTAN also includes the `.dtx` source file. It can be extracted by AcrobatReader 6 or higher. Another option is `pdftk`, e.g. unpack the file into the current directory:

```
pdftk hologo.pdf unpack_files output .
```

Unpacking with L^AT_EX. The .dtx chooses its action depending on the format:

plain T_EX: Run docstrip and extract the files.

L^AT_EX: Generate the documentation.

If you insist on using L^AT_EX for docstrip (really, docstrip does not need L^AT_EX), 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 pdfL^AT_EX:

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

5 History

[2010/04/08 v1.0]

- The first version.

[2010/04/16 v1.1]

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

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