

The `hologo` package

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2010/04/24 v1.2

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 `<name>`. The following table shows the supported names.

name	variant	logo	since
AmSLaTeX		$\mathcal{A}\mathcal{M}\mathcal{S}\text{-}\mathcal{L}\text{A}\text{T}_{\text{E}}\text{X}$	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		$\mathcal{L}\text{A}\text{T}_{\text{E}}\text{X}$	2010/04/08
LaTeX2e		$\mathcal{L}\text{A}\text{T}_{\text{E}}\text{X } 2_{\varepsilon}$	2010/04/08
LaTeX3		$\mathcal{L}\text{A}\text{T}_{\text{E}}\text{X}3$	2010/04/24
LaTeXe		$\mathcal{L}\text{A}\text{T}_{\text{E}}\text{X } 2_{\varepsilon}$	2010/04/08
LuaLaTeX		Lua $\mathcal{L}\text{A}\text{T}_{\text{E}}\text{X}$	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 $\mathcal{L}\text{A}\text{T}_{\text{E}}\text{X}$	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
VTeX		$\text{V}\text{T}_{\text{E}}\text{X}$	2010/04/24
XeLaTeX		$\text{X}_{\text{E}}\mathcal{L}\text{A}\text{T}_{\text{E}}\text{X}$	2010/04/08
XeTeX		$\text{X}_{\text{E}}\text{T}_{\text{E}}\text{X}$	2010/04/08

`\Hologo {<name>}`

Macro `\Hologo` starts the logo `<name>` 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 [2010/04/24 v1.2 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\HOLOGO@AtEnd{%
111   \HOLOGO@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

```

\HOLOGO@IfDefined

```

138 \def\HOLOGO@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

`\holoLogoSetup`

```
149 \def\holoLogoSetup{%
150   \let\HLOGO@name\relax
151   \HLOGO@Setup
152 }
```

`\holoLogoSetup`

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

`\HLOGO@Setup`

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

2.3 Options

`\HLOGO@DefineBoolOption`

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

`\HLOGO@SetBreakAll`

```

197 \def\HOLOGO@SetBreakAll#1{%
198   \def\HOLOGO@temp{#1}%
199   \ifx\HOLOGO@temp\HOLOGO@break
200     \ifx\HOLOGO@name\relax
201       \chardef\HOLOGO@hyphenbreak=\HOLOGO@break
202       \chardef\HOLOGO@spacebreak=\HOLOGO@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

`\HLOGO@space`

```
251 \def\HLOGO@space{%
252   \ltx@ifundefined{HoLogoOpt@spacebreak@\HLOGO@name}{%
253     \ltx@ifundefined{HoLogoOpt@break@\HLOGO@name}{%
254       \chardef\HLOGO@temp=\HLOGOOPT@spacebreak
255     }{%
256       \chardef\HLOGO@temp=%
257       \csname HoLogoOpt@break@\HLOGO@name\endcsname
258     }%
259   }{%
260     \chardef\HLOGO@temp=%
261     \csname HoLogoOpt@spacebreak@\HLOGO@name\endcsname
262   }%
263   \ifcase\HLOGO@temp
264     \penalty10000 %
265   \fi
266   \ltx@space
267 }
```

`\HLOGO@hyphen`

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

`\HLOGO@mbox`

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

2.5 `\hologo`

```
299 \HLOGO@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 \HOLOGO@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\HOLOGO@name{#1}%
324 \ltx@ifundefined{HoLogo@\HOLOGO@Variant\HOLOGO@name}{%
325 \@PackageError{hologo}{%
326   Unknown logo '\HOLOGO@name'%
327 } \@ehc
328 ?\HOLOGO@name?%
329 }{%
330 \csname HoLogo@\HOLOGO@Variant\HOLOGO@name\endcsname\ltx@firstoftwo
331 }%
332 }

```

\hologo

```

333 \def\hologo#1{%
334 \HOLOGO@IfExists\texorpdfstring\texorpdfstring\ltx@firstoftwo
335 {%
336   \hologorobust{#1}%
337 }{%
338   \ltx@ifundefined{HoLogoBkm@\HOLOGO@Variant{#1}}{%
339     \ltx@ifundefined{HoLogo@#1}{?#1?}{#1}%
340 }{%
341   \csname HoLogoBkm@\HOLOGO@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\HOLOGO@name{#1}%
356 \ltx@ifundefined{HoLogo@\HOLOGO@Variant\HOLOGO@name}{%
357 \@PackageError{hologo}{%
358   Unknown logo '\HOLOGO@name'%

```

```

359   }\@ehc
360   ?\HOLOGO@name?%
361   }{%
362   \csname HoLogo@\HOLOGO@Variant\HOLOGO@name\endcsname\ltx@secondoftwo
363   }%
364 }

```

\Hologo

```

365 \def\Hologo#1{%
366   \HOLOGO@IfExists\textorpdfstring\textorpdfstring\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=Opt\relax
396     \comma@parse@normalized{#1}{%
397       \ifdim\HOLOGO@TempDimen=Opt %
398         \expandafter\HOLOGO@NegativeKerning\comma@entry
399       \fi
400       \ltx@gobble
401     }%
402     \ifdim\HOLOGO@TempDimen<Opt %
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 }

```

```

\HOLOGO@SpaceFactor
413 \def\HOLOGO@SpaceFactor{%
414 \spacefactor1000 %
415 }

```

2.7 T_EX and friends

2.7.1 T_EX

\HoLogo@TeX Source: L^AT_EX kernel.

```

416 \def\HoLogo@TeX#1{%
417 T\kern-.1667em\lower.5ex\hbox{E}\kern-.125em\HOLOGO@SpaceFactor
418 }

```

2.7.2 plain T_EX

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

```

419 \def\HoLogo@plainTeX@space#1{%
420 \HOLOGO@mbox{#1{p}{P}lain}\HOLOGO@space\hologo{TeX}%
421 }

```

\HoLogoBkm@plainTeX@space

```

422 \def\HoLogoBkm@plainTeX@space#1{%
423 #1{p}{P}lain \hologo{TeX}%
424 }

```

\HoLogo@plainTeX@hyphen

```

425 \def\HoLogo@plainTeX@hyphen#1{%
426 \HOLOGO@mbox{#1{p}{P}lain}\HOLOGO@hyphen\hologo{TeX}%
427 }

```

\HoLogoBkm@plainTeX@hyphen

```

428 \def\HoLogoBkm@plainTeX@hyphen#1{%
429 #1{p}{P}lain-\hologo{TeX}%
430 }

```

\HoLogo@plainTeX@runtogether

```

431 \def\HoLogo@plainTeX@runtogether#1{%
432 \HOLOGO@mbox{#1{p}{P}lain\hologo{TeX}}%
433 }

```

\HoLogoBkm@plainTeX@runtogether

```

434 \def\HoLogoBkm@plainTeX@runtogether#1{%
435 #1{p}{P}lain\hologo{TeX}%
436 }

```

\HoLogo@plainTeX

```

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

```

\HoLogoBkm@plainTeX

```

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

```

2.7.3 L^AT_EX

\HoLogo@LaTeX Source: L^AT_EX kernel.

```
439 \def\HoLogo@LaTeX#1{%
440   L%
441   \kern-.36em%
442   \begingroup
443     \setbox\ltx@zero\hbox{T}%
444     \vbox to\ht\ltx@zero{%
445       \hbox{%
446         \ltx@ifundefined{check@mathfonts}{%
447           \csname sevenrm\endcsname
448         }{%
449           \check@mathfonts
450           \fontsize\sf@size\z@
451           \math@fontsfalse\selectfont
452         }%
453       A%
454     }%
455     \vss
456   }%
457 \endgroup
458 \kern-.15em%
459 \hologo{TeX}%
460 }
```

2.7.4 L^AT_EX 2 ϵ

\HoLogo@LaTeXe Source: L^AT_EX kernel

```
461 \def\HoLogo@LaTeXe#1{%
462   \hologo{LaTeX}%
463   \kern.15em%
464   \hbox{%
465     \HOLOGO@MathSetup
466     2%
467     $_{\textstyle\varepsilon}$%
468   }%
469 }
```

\HoLogoBkm@LaTeXe

```
470 \def\HoLogoBkm@LaTeXe#1{%
471   \hologo{LaTeX}%
472   2%
473   \HOLOGO@PdfdocUnicode{e}{\textepsilon}%
474 }
```

\HoLogo@LaTeX2e

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

\HoLogoBkm@LaTeX2e

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

2.7.5 L^AT_EX 3

\HoLogo@LaTeX3 Source: L^AT_EX kernel

```
477 \expandafter\def\csname HoLogo@LaTeX3\endcsname#1{%
478   \hologo{LaTeX}%
479   3%
480 }
```

`\HoLogoBkm@LaTeX3`

```
481 \expandafter\def\csname HoLogoBkm@LaTeX3\endcsname#1{%
482   \hologo{LaTeX}%
483   3%
484 }
```

2.7.6 ε -TeX

`\HoLogo@eTeX` Source: package etex

```
485 \def\HoLogo@eTeX#1{%
486   \ltx@mbox{%
487     \hbox{%
488       \Hologo@MathSetup
489       $\varepsilon$%
490       -%
491       \Hologo@NegativeKerning{-T,T-,To}%
492       \hologo{TeX}%
493     }%
494   }%
495 }
```

`\HoLogoBkm@eTeX`

```
496 \def\HoLogoBkm@eTeX#1{%
497   \Hologo@PdfdocUnicode{#1{e}{E}}{\textepsilon}%
498   -%
499   \hologo{TeX}%
500 }
```

2.7.7 LuaTeX

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

```
501 \def\HoLogo@LuaTeX#1{%
502   \Hologo@mbox{%
503     Lua%
504     \Hologo@NegativeKerning{aT,oT,To}%
505     \hologo{TeX}%
506   }%
507 }
```

2.7.8 Lua^ATeX

`\HoLogo@LuaLaTeX`

```
508 \def\HoLogo@LuaLaTeX#1{%
509   \Hologo@mbox{%
510     Lua%
511     \hologo{LaTeX}%
512   }%
513 }
```

2.7.9 X_qTeX, X_q^ATeX

`\HoLogo@Xe` Source: package dtklogos

```
514 \def\HoLogo@Xe#1{%
515   X%
516   \kern-.1em\relax
517   \ltx@ifundefined{Hologo@ReflectBox}\ltx@firstoftwo{%
518     \ltx@ifundefined{Hologo@ReflectBox@\hologodriver}%
519     \ltx@firstoftwo\ltx@secondoftwo
520   }%
```

```

521 {e}{%
522   \lower.5ex\hbox{%
523     \HLOGO@ReflectBox{E}%
524   }%
525 }%
526 }

```

`\HoLogo@XeTeX`

```

527 \def\HoLogo@XeTeX#1{%
528   \hologo{Xe}%
529   \kern-.15em\relax
530   \hologo{TeX}%
531 }

```

`\HoLogo@XeLaTeX`

```

532 \def\HoLogo@XeLaTeX#1{%
533   \hologo{Xe}%
534   \hologo{LaTeX}%
535 }

```

2.7.10 pdfTeX, pdfLaTeX

`\HoLogo@pdfTeX`

```

536 \def\HoLogo@pdfTeX#1{%
537   \HLOGO@mbox{%
538     #1{p}{P}df\hologo{TeX}%
539   }%
540 }

```

`\HoLogo@pdfLaTeX`

```

541 \def\HoLogo@pdfLaTeX#1{%
542   \HLOGO@mbox{%
543     #1{p}{P}df\hologo{LaTeX}%
544   }%
545 }

```

2.7.11 VTeX

`\HoLogo@VTeX`

```

546 \def\HoLogo@VTeX#1{%
547   \HLOGO@mbox{%
548     V\hologo{TeX}%
549   }%
550 }

```

2.7.12 AMS, ...

Source: class amsdtx

`\HoLogo@AmS`

```

551 \def\HoLogo@AmS#1{%
552   \begingroup
553   \usefont{OMS}{cmsy}{m}{n}%
554   A%
555   \kern-.1667em%
556   \lower.5ex\hbox{M}%
557   \kern-.125em%
558   S%
559   \endgroup
560 }

```

```

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

\HoLogo@AmSTeX
562 \def\HoLogo@AmSTeX#1{%
563 \hologo{AmS}%
564 \HOLOGO@hyphen
565 \hologo{TeX}%
566 }

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

\HoLogo@AmSLaTeX
568 \def\HoLogo@AmSLaTeX#1{%
569 \hologo{AmS}%
570 \HOLOGO@hyphen
571 \hologo{LaTeX}%
572 }

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

```

2.8 Driver detection

```

574 \HOLOGO@IfExists\InputIfFileExists{%
575 \InputIfFileExists{hologo.cfg}{-}{-}%
576 }-%
577 \ltx@IfUndefined{pdf@filesize}{%
578 \chardef\HOLOGO@temp=15 %
579 \def\HOLOGO@CheckRead{%
580 \ifeof\HOLOGO@temp
581 \else
582 \ifcase\HOLOGO@temp
583 \csname newread\endcsname\HOLOGO@temp
584 \else
585 \begingroup
586 \count\ltx@cclv=\HOLOGO@temp
587 \advance\ltx@cclv by -1 %
588 \edef\x{\endgroup
589 \chardef\noexpand\HOLOGO@temp=\the\count\ltx@cclv\relax
590 }%
591 \x
592 \expandafter\expandafter\expandafter\HOLOGO@CheckRead
593 \fi
594 \fi
595 }%
596 \ifeof\HOLOGO@temp
597 \@PackageWarningNoLine{hologo}{%
598 Configuration file ignored, because\MessageBreak
599 a free read register could not be found%
600 }%
601 \else
602 \openin\HOLOGO@temp=hologo.cfg\relax
603 \ifeof\HOLOGO@temp
604 \closein\HOLOGO@temp
605 \else
606 \closein\HOLOGO@temp
607 \input hologo.cfg\relax
608 \fi
609 \fi

```

```

610 }{%
611   \edef\HOLOGO@temp{\pdf@filesize{hologo.cfg}}%
612   \ifx\HOLOGO@temp\ltx@empty
613     \else
614       \input hologo.cfg\relax
615     \fi
616 }%
617 }

618 \ltx@ifundefined{DeclareOption}{%
619   \ltx@gobble
620 }{%
621   \ltx@ifundefined{ProcessOptions}\ltx@gobble\ltx@firstofone
622 }%
623 {%
624   \def\HOLOGO@temp#1#2{%
625     \DeclareOption{#1}{\edef\hologodriver{#2}}%
626   }%
627   \kv@parse@normalized{%
628     pdftex,%
629     luatex=pdftex,%
630     dvipdfm,%
631     dvipdfmx=dvipdfm,%
632     dvips,%
633     dvipsone=dvips,%
634     xdvi=dvips,%
635     xetex,%
636     vtex,%
637   }{%
638     \ifx\kv@value\relax
639       \expandafter\HOLOGO@temp\expandafter{\kv@key}\kv@key
640     \else
641       \expandafter\HOLOGO@temp\expandafter{\kv@key}\kv@value
642     \fi
643     \ltx@gobbletwo
644   }%
645   \ProcessOptions*%
646 }

```

\hologodriver

```

647 \ifpdf
648   \def\hologodriver{pdftex}%
649   \let\HOLOGO@pdfliteral\pdfliteral
650   \ifluatex
651     \ltx@ifundefined{HOLOGO@pdfliteral}{%
652       \ifnum\luatexversion<36 %
653         \else
654           \begingroup
655             \let\HOLOGO@temp\endgroup
656             \ifcase0%
657               \directlua{%
658                 if tex.enableprimitives then %
659                   tex.enableprimitives('HOLOGO@', {'pdfliteral'})%
660                 else %
661                   tex.print('1')%
662                 end%
663               }%
664             \ifx\HOLOGO@pdfliteral\@undefined 1\fi%
665             \relax%
666           \endgroup
667           \let\HOLOGO@temp\relax
668           \global\let\HOLOGO@pdfliteral\HOLOGO@pdfliteral
669         \fi%

```



```

670     \HOLOGO@temp
671     \fi
672   }-{}%
673 \fi
674 \ltx@ifundefined{HOLOGO@pdfliteral}{%
675   \@PackageWarningNoLine{hologo}{%
676     Cannot find \string\pdfliteral
677   }%
678 }-{}%
679 \else
680   \ifxetex
681     \def\hologodriver{xetex}%
682   \else
683     \ifvtex
684       \def\hologodriver{vtex}%
685     \fi
686   \fi
687 \fi

```

\HOLOGO@ReflectBox

```

688 \ltx@ifundefined{reflectbox}{-{}%
689   \def\HOLOGO@ReflectBox{%
690     \reflectbox
691   }%
692   \HOLOGO@AtEnd
693 }
694 \ltx@ifundefined{hologodriver}{%
695   \def\hologodriver{dvips}%
696   \@PackageInfoNoLine{hologo}{Using default driver ‘\hologodriver’}%
697 }-{}%
698   \@PackageInfoNoLine{hologo}{Using driver ‘\hologodriver’}%
699 }
700 \def\HOLOGO@ReflectBox#1{%
701   \ltx@ifundefined{HOLOGO@ReflectBox@\hologodriver}{%
702     \@PackageWarning{hologo}{%
703       Driver ‘\hologodriver’ misses support for \string\reflectbox
704     }%
705     #1%
706   }-{}%
707     \begingroup
708       \setbox\ltx@zero\hbox{\begingroup#1\endgroup}%
709       \setbox\ltx@two\hbox{%
710         \kern\wd\ltx@zero
711         \csname HOLOGO@ReflectBox@\hologodriver\endcsname{%
712           \hbox to Opt{\copy\z@\hss}%
713         }%
714       }%
715       \wd\ltx@two=\wd\ltx@zero
716       \box\ltx@two
717     \endgroup
718   }%
719 }

720 \def\HOLOGO@temp#1{%
721   \begingroup
722     \def\x{#1}%
723   \expandafter\endgroup
724   \ifx\x\hologodriver
725     \expandafter\ltx@firstofone
726   \else
727     \expandafter\ltx@gobble
728   \fi
729 }

```

\HOLOGO@ReflectBox@pdftex

```
730 \HOLOGO@temp{pdftex}{%
731   \def\HOLOGO@ReflectBox@pdftex#1{%
732     \HOLOGO@pdfliteral{%
733       q -1 0 0 1 0 0 cm%
734     }%
735     #1%
736     \HOLOGO@pdfliteral{%
737       Q%
738     }%
739   }%
740 }
```

\HOLOGO@ReflectBox@dvips

```
741 \HOLOGO@temp{dvips}{%
742   \def\HOLOGO@ReflectBox@dvips#1{%
743     \special{ps:%
744       gsave %
745       currentpoint %
746       currentpoint translate %
747       -1 1 scale %
748       neg exch neg exch translate%
749     }%
750     #1%
751     \special{ps:%
752       currentpoint %
753       grestore %
754       moveto%
755     }%
756   }%
757 }
```

\HOLOGO@ReflectBox@dvipdfm

```
758 \HOLOGO@temp{dvipdfm}{%
759   \let\HOLOGO@ReflectBox@dvipdfm\HOLOGO@ReflectBox@dvips
760 }
```

Since X_YT_EX v0.6.

\HOLOGO@ReflectBox@xetex

```
761 \HOLOGO@temp{xetex}{%
762   \def\HOLOGO@ReflectBox@xetex#1{%
763     \special{x:gsave}%
764     \special{x:scale -1 1}%
765     #1%
766     \special{x:grestore}%
767   }%
768 }
```

\HOLOGO@ReflectBox@vtex

```
769 \HOLOGO@temp{vtex}{%
770   \def\HOLOGO@ReflectBox@vtex#1{%
771     \special{r(-1,0,0,1,0,0)%
772     #1%
773     \special{r}}%
774   }%
775 }

776 \HOLOGO@AtEnd
777 </package>
```

3 Test

3.1 Catcode checks for loading

```
778 <*test1>
779 \catcode'\{=1 %
780 \catcode'\}=2 %
781 \catcode'\#=6 %
782 \catcode'\@=11 %
783 \expandafter\ifx\csname count@\endcsname\relax
784 \countdef\count@=255 %
785 \fi
786 \expandafter\ifx\csname @gobble\endcsname\relax
787 \long\def\@gobble#1{}%
788 \fi
789 \expandafter\ifx\csname @firstofone\endcsname\relax
790 \long\def\@firstofone#1{#1}%
791 \fi
792 \expandafter\ifx\csname loop\endcsname\relax
793 \expandafter\@firstofone
794 \else
795 \expandafter\@gobble
796 \fi
797 {%
798 \def\loop#1\repeat{%
799 \def\body{#1}%
800 \iterate
801 }%
802 \def\iterate{%
803 \body
804 \let\next\iterate
805 \else
806 \let\next\relax
807 \fi
808 \next
809 }%
810 \let\repeat=\fi
811 }%
812 \def\RestoreCatcodes{}
813 \count@=0 %
814 \loop
815 \edef\RestoreCatcodes{%
816 \RestoreCatcodes
817 \catcode\the\count@=\the\catcode\count@\relax
818 }%
819 \ifnum\count@<255 %
820 \advance\count@ 1 %
821 \repeat
822
823 \def\RangeCatcodeInvalid#1#2{%
824 \count@=#1\relax
825 \loop
826 \catcode\count@=15 %
827 \ifnum\count@<#2\relax
828 \advance\count@ 1 %
829 \repeat
830 }
831 \expandafter\ifx\csname LoadCommand\endcsname\relax
832 \def\LoadCommand{\input hologo.sty\relax}%
833 \fi
834 \def\Test{%
835 \RangeCatcodeInvalid{0}{47}%
```

```

836 \RangeCatcodeInvalid{58}{64}%
837 \RangeCatcodeInvalid{91}{96}%
838 \RangeCatcodeInvalid{123}{255}%
839 \catcode'\@=12 %
840 \catcode'\=0 %
841 \catcode'\{=1 %
842 \catcode'\}=2 %
843 \catcode'\#=6 %
844 \catcode'\[=12 %
845 \catcode'\]=12 %
846 \catcode'\%=14 %
847 \catcode'\ =10 %
848 \catcode13=5 %
849 \LoadCommand
850 \RestoreCatcodes
851 }
852 \Test
853 \csname @@end\endcsname
854 \end
855 </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.

```

856 (*test-spacefactor)
857 \NeedsTeXFormat{LaTeX2e}
858 \documentclass{article}
859 \usepackage{hologo}[2010/04/24]
860 \usepackage{kvsetkeys}
861 \usepackage{qstest}
862 \IncludeTests{*}
863 \LogTests{log}{*}{*}
864 \begin{document}
865 \begin{qstest}{spacefactor}{spacefactor}
866 \newcommand*\Test[1]{%
867   \sbox0{%
868     \hologo{#1}%
869     \Expect*{1000 (#1)}*{\the\spacefactor\space(#1)}%
870   }%
871 }%
872 \makeatletter
873 \kv@parse@normalized{%
874   AmSLaTeX,%
875   AmSTeX,%
876   eTeX,%
877   LaTeX,%
878   LaTeX2e,%
879   LaTeX3,%
880   LaTeXe,%
881   LuaLaTeX,%
882   LuaTeX,%
883   pdfTeX,%
884   pdfLaTeX,%
885   plainTeX=,%
886   plainTeX={variant=space},%
887   plainTeX={variant=hyphen},%
888   plainTeX={variant=runtogether},%
889   TeX,%
890   VTeX,%

```

```

891 XeLaTeX,%
892 XeTeX,%
893 }{%
894 \begingroup
895   \let\@logo=\kv@key
896   \ifx\kv@value\relax
897   \else
898     \expandafter\hologoLogoSetup\expandafter\@logo\expandafter{%
899       \kv@value
900     }%
901   \fi
902   \Test\@logo
903 \endgroup
904 \@gobbletwo
905 }
906 \end{qstest}
907 \end{document}
908 </test-spacefactor>

```

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 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
```

¹<ftp://ftp.ctan.org/tex-archive/>

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-test-spacefactor.tex → tex/generic/oberdiek/hologo-test-spacefactor.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 \TeX distribution (`te \TeX` , `mik \TeX` , ...) relies on file name databases, you must refresh these. For example, `te \TeX` users run `texhash` or `mktextlsr`.

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 \LaTeX . The `.dtx` chooses its action depending on the format:

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

\LaTeX : Generate the documentation.

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

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

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

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

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

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

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

5 History

[2010/04/08 v1.0]

- The first version.

[2010/04/16 v1.1]

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

[2010/04/24 v1.2]

- L^AT_EX3 added.
- V_TE_X added.

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