LIBERTINE HOLOGO PATCH

vo.3b 2013/06/29

Patching the logos provided by the hologo package when used together with the libertine package and pdfLATeX.

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English documentation

From (LA)TEX to (LA)TEX

Contents
3 Usage
2
1 License and Requirements
1 4 Implementation
3
2 Options
1 Index
13

1 License and Requirements

LIBERTINEHOLOGOPATCH is placed under the terms of the LATEX Project Public License, version 1.3 or later (http://www.latex-project.org/lppl.txt). It has the status "maintained." LIBERTINEHOLOGOPATCH loads and needs the packages etoolbox, hologo, ifxetex, ifluatex and libertine.

2 Options

There are a few package options:

¹ CTAN: etoolbox ² CTAN: hologo ³ CTAN: ifxetex ⁴ CTAN: ifluatex ⁵ CTAN: libertine

verbose

Inform when patching is successful and warn if it fails. This is the default behaviour.

silent

Neither inform nor warn if patching succeeds or fails.

errors

Issue an error instead of a warning if patching fails.

shortcuts

(Re-) Define shortcuts for common logos to use the newly patched hologo logos: $\TeX TeX$, \Latex Latex Latex, \Latex Latex Latex, \Latex Latex, \Latex Latex, \Latex Latex, \Latex Lualex, \Latex Lualex. This is default behaviour.

noshortcuts

Don't (re-) define above mentioned logos.

3 Usage

The hologo package by Heiko Oberdiek provides a comprehensive list of and access to the most common TeX-related logos. However, the kerning values it uses are optimized for use with TeX's standard font, Computer Modern. I happen to like the Linux Libertine O and Linux Biolinum O fonts very much. They are used in this documentation as well. Unfortunately many of the logos look bad with these fonts to say the least:

What LIBERTINEHOLOGOPATCH does is it checks if one of these fonts is used and changes the kerning then:

```
huge
LATEX, \XelaTeX, \LaTeXTeX \par
textit{\LaTeX, \XelaTeX, \LaTeXTeX}

LATEX, XALATEX, (LA)TEX

LATEX, XALATEX, (LA)TEX

LATEX, \XelaTeX, (LA)TEX

LATEX, XALATEX, (LA)TEX

LATEX, XALATEX, (LA)TEX

LATEX, XALATEX, (LA)TEX

LATEX, XALATEX, (LA)TEX
```

All you have to do is load the package in the usual LATEX 2ε way:

```
\usepackage{libertinehologopatch}
```

and all the logos will be patched appropriately.

LIBERTINEHOLOGOPATCH defines additional user macros:

\restorelogos

Restores the original definitions of the logo commands, the scope is local.

\originallogo{<logo>}

This command takes the same argument as \hologo and outputs the unpatched version of the respective logo. It uses \restorelogos internally.

\Originallogo{<logo>}

This command takes the same argument as \Hologo and outputs the unpatched version of the respective uppercased logo. It uses \restorelogos internally.

4 Implementation

```
the LIBERTINEHOLOGOPATCH package

the patch kerning of hologo's logos for usage with the 'libertine' package

patch kerning of hologo's logos for usage with the 'libertine' package

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of this license or (at your option) any later version.

The latest version of this license is in
```

```
% http://www.latex-project.org/lppl.txt
  % and version 1.3 or later is part of all distributions of LaTeX
  % version 2005/12/01 or later.
  % This work has the LPPL maintenance status 'maintained'.
 % The Current Maintainer of this work is Clemens Niederberger.
  %
  % The libertinehologopatch package consists of the files
  % - libertinehologopatch.sty
  % - libertinehologopatch_en.tex, libertinehologopatch_en.pdf
    - README
  %
  % If you have any ideas, questions, suggestions or bugs to report, please
31 % feel free to contact me.
32 %
33 \def\lbthlpt@date{2013/06/29}
  \def\lbthlpt@version{v0.3b}
  \def\lbthlpt@description{%
    patch kerning of logos provided by 'hologo' for use with 'libertine' (CN)}
36
37
38 \ProvidesPackage{libertinehologopatch}%
   [\lbthlpt@date\space\lbthlpt@version\space\lbthlpt@description]
39
40 \RequirePackage{etoolbox}
41 \RequirePackage{ifxetex,ifluatex}
  \RequirePackage{hologo}[2012/04/26]
  \RequirePackage{libertine}[2013/01/25]
% pdfLaTeX:
46 \def\lbthlpt@family@biolinum{LinuxBiolinumT}
47 \def\lbthlpt@family@biolinumOsF{LinuxBiolinumT-OsF}
48 \def\lbthlpt@family@biolinumLF{LinuxBiolinumT-LF}
  \def\lbthlpt@family@biolinumTOsF{LinuxBiolinumT-TOsF}
  \def\lbthlpt@family@biolinumTLF{LinuxBiolinumT-TLF}
  \def\lbthlpt@family@libertine{LinuxLibertineT}
  \def\lbthlpt@family@libertineOsF{LinuxLibertineT-OsF}
  \def\lbthlpt@family@libertineLF{LinuxLibertineT-LF}
  \def\lbthlpt@family@libertineTOsF{LinuxLibertineT-TOsF}
  \def\lbthlpt@family@libertineTLF{LinuxLibertineT-TLF}
  \def\lbthlpt@family@libertineDisplayTLF{LinuxLibertineDisplayT-TLF}
  \def\lbthlpt@family@libertineDisplayTOsF{LinuxLibertineDisplayT-TOsF}
59
60
% XeLaTeX/LuaLaTeX:
62 \def\lbthlpt@libertine@base{LinLibertine(0)}
63 \def\lbthlpt@biolinum@base{LinBiolinum(0)}
64
  %
```

```
% package options:
   \newbool{lbthlpt@silent}
   \newbool{lbthlpt@verbose}
   \newbool{lbthlpt@errors}
   \newbool{lbthlpt@shortcuts}
70
71
   % default behaviour:
   \booltrue{lbthlpt@verbose}
73
   \booltrue{lbthlpt@shortcuts}
   \DeclareOption{silent}{%
      \booltrue{lbthlpt@silent}%
77
      \boolfalse{lbthlpt@verbose}%
78
      \boolfalse{lbthlpt@errors}%
79
80
   }
   \DeclareOption{verbose}{%
      \boolfalse{lbthlpt@silent}%
82
      \booltrue{lbthlpt@verbose}%
83
      \boolfalse{lbthlpt@errors}%
84
85
   }
   \DeclareOption{errors}{%
86
      \boolfalse{lbthlpt@silent}%
87
      \boolfalse{lbthlpt@verbose}%
     \booltrue{lbthlpt@errors}%
89
   }
90
   \DeclareOption{shortcuts}
      {\booltrue{lbthlpt@shortcuts}}
92
   \DeclareOption{noshortcuts}
93
      {\boolfalse{lbthlpt@shortcuts}}
94
   \ProcessOptions*\relax
96
97
   \def\lbthlpt@failure#1#2{%
98
     \ifbool{lbthlpt@verbose}
99
        {%
100
          \PackageWarning{libertinehologopatch}
101
            {Patching of logo '#1' (\string#2) failed.}%
102
        }{}%
103
     \ifbool{lbthlpt@errors}
104
        {%
          \PackageError{libertinehologopatch}
            {Patching of logo '#1' (\string#2) failed.}
            {Patching of logo '#1' (\string#2) failed.}%
108
        }{}%
109
   }
110
   \def\lbthlpt@success#1#2{%
      \ifboolexpe{ bool {lbthlpt@verbose} or bool {lbthlpt@errors} }
        {%
113
          \PackageInfo{libertinehologopatch}
```

```
{Patching of logo '#1' (\string#2) successful.}%
115
        }{}
116
   }
118
119
   % some conditionals:
   % wrap \ifx:
   \def\lbthlpt@ifx#1#2{%}
      \ifx#1#2%
        \expandafter\@firstoftwo
     \else
125
        \expandafter\@secondoftwo
126
     \fi
   }
128
   % test for biolinum:
   \def\lbthlpt@ifbiolinum{%
      \ifboolexpe{
        test {\lbthlpt@ifx\f@family\lbthlpt@family@biolinum} or
        test {\lbthlpt@ifx\f@family\lbthlpt@family@biolinumOsF} or
134
        test {\lbthlpt@ifx\f@family\lbthlpt@family@biolinumLF} or
135
        test {\lbthlpt@ifx\f@family\lbthlpt@family@biolinumTOsF} or
        test {\lbthlpt@ifx\f@family\lbthlpt@family@biolinumTLF} or
        test {\lbthlpt@ifx\lbthlpt@biolinum@base\f@family}
138
     }
139
   }
141
   % test for libertine:
142
   \def\lbthlpt@iflibertine{%
      \ifboolexpe{
        test {\lbthlpt@ifx\f@family\lbthlpt@family@libertine} or
145
        test {\lbthlpt@ifx\f@family\lbthlpt@family@libertineOsF} or
146
        test {\lbthlpt@ifx\f@family\lbthlpt@family@libertineLF} or
        test {\lbthlpt@ifx\f@family\lbthlpt@family@libertineTOsF} or
        test {\lbthlpt@ifx\f@family\lbthlpt@family@libertineTLF} or
149
        test {\lbthlpt@ifx\f@family\lbthlpt@family@libertineDisplayTOsF} or
        test {\lbthlpt@ifx\f@family\lbthlpt@family@libertineDisplayTLF} or
        test {\lbthlpt@ifx\lbthlpt@libertine@base\f@family}
     }
   }
154
   % test for xetex and luatex:
   \def\lbthlpt@ifxeorlua{%
157
     \ifboolexpe{
158
        bool {xetex} or
        bool {luatex}
     }
161
   }
162
```

```
% tests for different font properties:
   \def\lbthlpt@property#1{\csdef{lbthlpt@#1}{#1}}
   \lbthlpt@property{it}
   \lbthlpt@property{si}% with fontspec: sc+it
   \lbthlpt@property{sc}
   \lbthlpt@property{bx}% bold extended
   \lbthlpt@property{sb}% semi-bold
   % test for italics:
   \def\lbthlpt@ifit{%
     \ifboolexpe{
175
       test {\lbthlpt@ifx\f@shape\lbthlpt@it} or
176
       test {\lbthlpt@ifx\f@shape\lbthlpt@si}
177
     }
   }
179
180
   % test for small caps:
   \def\lbthlpt@ifsc{%
     \lbthlpt@ifx\f@shape\lbthlpt@sc
183
184
185
   % test for boldface:
   \def\lbthlpt@ifbf{%
     \ifboolexpe{
188
       test {\lbthlpt@ifx\f@series\lbthlpt@bx} or
       test {\lbthlpt@ifx\f@series\lbthlpt@sb}
     }
191
   }
192
   % test: biolinum or libertine or none
   \def\lbthlpt@fonttest#1#2#3{%
     \lbthlpt@ifbiolinum
196
       {#1}
       {\lbthlpt@iflibertine{#2}{#3}}%
198
199
200
   % -----
   % save unpatched versions:
   \def\lbthlpt@saved@logos{}
   \newcommand*\lbthlpt@save[1]{%
     \csletcs{lbthlpt@unpatched@#1}{HoLogo@#1}%
     \listadd\lbthlpt@saved@logos{#1}}
207
   % restore unpatched versions:
208
   \newcommand*\lbthlpt@restore[1]{%
     \csletcs{HoLogo@#1}{lbthlpt@unpatched@#1}}
210
212 % restore originals
```

```
\def\lbthlpt@restore@originals{%
                                    \forlistloop\lbthlpt@restore\lbthlpt@saved@logos}
 214
                       \newrobustcmd\restorelogos{%
                                  \lbthlpt@restore@originals}
 217
                       % get unpatched logo:
 218
                       \newcommand * \lbthlpt@get@unpatched[2]{\normalcommand} \normalcommand * \lbthlpt@get@unpatched[2]{\normalcommand} \normalcommand} \normalcommand \normalcommand \normalcommand} \normalcommand \normalcommand \normalcommand \normalcommand} \normalcommand \norma
                                   \begingroup
220
                                               \lbthlpt@restore@originals
                                               #1{#2}%
                                   \endgroup}
                       \newrobustcmd*\originallogo[1]{%
                                  \lbthlpt@get@unpatched\hologo{#1}}
                       \newrobustcmd*\Originallogo[1]{%
                                  \lbthlpt@get@unpatched\Hologo{#1}}
228
229
                       % the patching
                       % enable consecutive patching by inserting a leading 0 -- this prevents
                       % wrong patching if a new value happens to be one of the old ones
233
                     %% La: between L and A
                       \lbthlpt@save{La}
235
                       \patchcmd\HoLogo@La
236
                                   {\kern-.36em}
                                    {%
                                                \lbthlpt@fonttest
                                                            {\lbthlpt@ifit{\kern-0.23em}{\kern-0.28em}}
240
                                                            {\lbthlpt@ifit{\kern-0.26em}{\kern-0.31em}}
 241
                                                            {\ker -0.36em}%
243
                                    {\lbthlpt@success{La}{\HoLogo@La}}
244
                                    {\lbthlpt@failure{La}{\HoLogo@La}}
 245
                       %%% TeX
247
                       % between T and eX
248
                       \lbthlpt@save{TeX}
                       \patchcmd\HoLogo@TeX
                                   {\kern-.1667em}
 251
                                    {%
                                               \lbthlpt@fonttest
                                                            {\t } {\t 
                                                            {\t } {\t 
                                                            {\kern-0.1667em}%
                                    {\lbthlpt@success{TeX}{\HoLogo@TeX}}
                                    {\lbthlpt@failure{TeX}{\HoLogo@TeX}}
                       % between Te and X
                       \patchcmd\HoLogo@TeX
```

```
{\kern-.125em}
262
      {%
263
        \lbthlpt@fonttest
           {\ \tilde{\ }} {\ \tilde{\ }} {\ \tilde{\ }} 
           {\lbthlpt@ifit{\kern-0.085em}{\kern-0.120em}}
266
           {\kern-0.125em}%
267
      }
268
      {\lbthlpt@success{TeX}{\HoLogo@TeX}}
      {\lbthlpt@failure{TeX}{\HoLogo@TeX}}
    %%% LaTeX: between La and TeX
    \lbthlpt@save{LaTeX}
273
    \patchcmd\HoLogo@LaTeX
      {\kern-.15em}
275
      {%
        \lbthlpt@fonttest
277
           {\lbthlpt@ifit{\kern-0.13em}{\kern-0.085em}}
278
           {\left( \begin{array}{c} {\left( \begin{array}{c} 13em \end{array} \right)} \end{array} \right)}
           {\kern-0.15em}%
      {\lbthlpt@success{LaTeX}{\HoLogo@LaTeX}}
282
      {\lbthlpt@failure{LaTeX}{\HoLogo@LaTeX}}
283
    %%% Xe: between X and e
    \lbthlpt@save{Xe}
    \patchcmd\HoLogo@Xe
      {\kern-.1em}
289
        \lbthlpt@fonttest
290
          {% biolinum
             \lbthlpt@ifit
               {%
                 \lbthlpt@ifxeorlua
                    {\left\{ \left( -0.05em \right) \right\} \right\}}
                    {\kern-0.05em}%
               }
               {%
                 \lbthlpt@ifxeorlua
                    {\lbthlpt@ifbf{\kern-0.1em}{\kern-0.12em}}
                    {\kern-0.1em}%
               }%
          }
           {% libertine
304
             \lbthlpt@ifit
305
               {%
                 \lbthlpt@ifxeorlua
                    {\lbthlpt@ifbf{\kern-0.05em}{\kern-0.18em}}
                    {\kern-0.05em}%
               }
```

```
{\ker 0.1em}%
 311
                                    }
 312
                                    {\kern-0.1em}%
314
                     {\lbthlpt@success{Xe}{\HoLogo@Xe}}
 315
                     {\lbthlpt@failure{Xe}{\HoLogo@Xe}}
316
              %% XeTeX: between Xe and TeX
318
              \lbthlpt@save{XeTeX}
              \patchcmd\HoLogo@XeTeX
                     {\kern-.15em}
                            \lbthlpt@fonttest
323
                                    {% biolinum
324
                                           \lbthlpt@ifit
                                                   {%
                                                          \lbthlpt@ifxeorlua
                                                                  {\tt \{\loss of the following t
                                                                  {\ker -0.24em}%
330
                                                   {\ker 0.15em}%
 331
                                    }
                                    {% libertine
333
                                           \lbthlpt@ifit
                                                  {%
                                                           \lbthlpt@ifxeorlua
                                                                  {\ \tilde{\theta}_{\kappa}}_{\kappa-0.235em}_{\kappa-0.1em}
                                                                  {\kern-0.235em}%
338
                                                   }
                                                   {%
                                                           \lbthlpt@ifxeorlua
341
                                                                  {\kern-0.18em}
                                                                  {\ker -0.15em}%
                                                   }%
345
                                    {\ker -0.15em}%
346
347
                     {\lbthlpt@success{XeTeX}{\HoLogo@XeTeX}}
348
                     {\lbthlpt@failure{XeTeX}{\HoLogo@XeTeX}}
349
              %% XeLaTeX: between Xe an LaTeX
              \lbthlpt@save{XeLaTeX}
              \patchcmd\HoLogo@XeLaTeX
353
                     {\kern-.13em}
354
                            \lbthlpt@fonttest
356
                                    {% biolinum
357
                                           \lbthlpt@ifit
                                                   {%
```

```
\lbthlpt@ifxeorlua
360
                   {\lbthlpt@ifbf{}{\kern-0.025em}}
                   {\ker -0.15em}%
363
              {\kern-0.09em}%
364
          }
          {% libertine
            \lbthlpt@ifit
              {%
                \lbthlpt@ifxeorlua
                   {\lbthlpt@ifbf{\kern-0.09em}{\kern0.05em}}
                   {\ker 0.09em}%
371
372
              {\kern-0.025em}%
          {\kern-0.13em}%
376
      {\lbthlpt@success{XeLaTeX}{\HoLogo@XeLaTeX}}
      {\lbthlpt@failure{XeLaTeX}{\HoLogo@XeLaTeX}}
378
379
    %% LaTeXTeX
380
    \lbthlpt@save{LaTeXTeX}
    % between ( and La
    \patchcmd\HoLogo@LaTeXTeX
      {\kern-.15em}
384
      {%
        \lbthlpt@fonttest
          {\lbthlpt@ifit{\kern-0.09em}{\kern-0.09em}}
387
          {\lbthlpt@ifit{\kern-0.06em}{\kern-0.06em}}
388
          {\ker -0.15em}%
      }%
390
      {\lbthlpt@success{(La)TeX}{\HoLogo@LaTeXTeX}}
      {\lbthlpt@failure{(La)TeX}{\HoLogo@LaTeXTeX}}
    % between La and )
    \patchcmd\HoLogo@LaTeXTeX
394
      {\kern-.2em}
395
      {%
396
        \lbthlpt@fonttest
397
          {\lbthlpt@ifit{\kern-0.16em}{\kern-0.13em}}
398
          {\lbthlpt@ifit{\kern-0.14em}{\kern-0.12em}}
          {\kern-0.2em}%
      {\lbthlpt@success{(La)TeX}{\HoLogo@LaTeXTeX}}
402
      {\lbthlpt@failure{(La)TeX}{\HoLogo@LaTeXTeX}}
403
   \% between ) and TeX
    \patchcmd\HoLogo@LaTeXTeX
      {\kern-.15em}
406
      {%
        \lbthlpt@fonttest
```

```
{\lbthlpt@ifit{\kern-0.11em}{\kern-0.11em}}
409
                        {\lbthlpt@ifit{\kern-0.09em}{\kern-0.07em}}
                        {\kern-0.15em}%
412
              {\lbthlpt@success{(La)TeX}{\HoLogo@LaTeXTeX}}
413
              {\lbthlpt@failure{(La)TeX}{\HoLogo@LaTeXTeX}}
414
         %% (La)TeX
416
         \lbthlpt@save{(La)TeX}
         \cslet{HoLogo@(La)TeX}\HoLogo@LaTeXTeX
418
420
         % shortcuts (with pdf bookmark support via hyperref)
421
         \ifbool{lbthlpt@shortcuts}
422
                   \ifboolexpe{ bool {lbthlpt@verbose} or bool {lbthlpt@errors} }
424
                         {\PackageInfo{libertinehologopatch}{Defining shortcuts}}{}
                   \AtBeginDocument{
                        \renewrobustcmd\TeX{\hologo{TeX}}
                        \renewrobustcmd\LaTeX{\hologo{LaTeX}}
428
                        \renewrobustcmd\LaTeXe{\hologo{LaTeX2e}}
429
                        \ifdef\LaTeXTeX
                             {\renewrobustcmd\LaTeXTeX{\hologo{LaTeXTeX}}}
431
                             {\newrobustcmd\LaTeXTeX{\hologo{LaTeXTeX}}}
432
                        \ifdef\pdfTeX
                             {\tt \{\normalfoating} \{ \normalfoating \{
                              {\newrobustcmd\pdfTeX{\hologo{pdfTeX}}}
435
                        \ifdef\pdfLaTeX
                             {\renewrobustcmd\pdfLaTeX{\hologo{pdfLaTeX}}}
                              {\newrobustcmd\pdfLaTeX{\hologo{pdfLaTeX}}}
                        \ifdef\XeTeX
439
                             {\renewrobustcmd\XeTeX{\hologo{XeTeX}}}
                             {\newrobustcmd\XeTeX{\hologo{XeTeX}}}
                        \ifdef\XeLaTeX
                             {\renewrobustcmd\XeLaTeX{\hologo{XeLaTeX}}}
443
                              {\newrobustcmd\XeLaTeX{\hologo{XeLaTeX}}}
444
                        \ifdef\LuaTeX
                             {\renewrobustcmd\LuaTeX{\hologo{LuaTeX}}}
                             {\newrobustcmd\LuaTeX{\hologo{LuaTeX}}}
                        \ifdef\LuaLaTeX
                             {\renewrobustcmd\LuaLaTeX{\hologo{LuaLaTeX}}}
                              {\newrobustcmd\LuaLaTeX{\hologo{LuaLaTeX}}}
                        \@ifpackageloaded{hyperref}
451
                             {
452
                                   \pdfstringdefDisableCommands
                                        {%
                                             \def\TeX{TeX}%
                                             \def\LaTeX{LaTeX}%
                                             \def\LaTeXe{LaTeX 2e}%
```

```
\def\LaTeXTeX{(La)TeX}%
458
                  \def\pdfTeX{pdfTeX}%
                  \def\pdfLaTeX{pdfLaTeX}%
                  \def\XeTeX{XeTeX}%
                  \def\XeLaTeX{XeLaTeX}%
462
                  \def\LuaTeX{LuaTeX}%
                  \def\LuaLaTeX{LuaLaTeX}%
           }{}
466
       }
     }{}
469
   \endinput
470
   % VERSION HISTORY
   2013/01/?? v0.1 - first draft
   2013/01/28 v0.2 - included package options, provided the necessary and
473
                       previously missing default value if neither Libertine nor
474
                       Biolinum are used
   2013/01/30 v0.2a - adapted to changes in 'libertine' and added missing tests
476
   2013/02/01 v0.2b - added documentation
477
   2013/03/19 v0.2c - internal changes to the saving and restoring
                     - new: \originallogo and \Originallogo
   2013/03/22 v0.3 - added support for XeLaTeX and LuaLaTeX (with 'fontspec'!)
   2013/05/30 v0.3a - added explicit call of 'ifluatex'
   2013/06/29 v0.3b - removed spurious spaces in \pdfstringdefDisableCommands
   % TOD0:
   - \LuaTeX : Libertine sc : zu große Lücke zwischen Lua und TeX
```

Index

E	License	S
errors2	\LuaLaTeX2	shortcuts2
etoolbox 1	\LuaTeX 2	silent2
н	N	Т
\Hologo3	noshortcuts 2	\TeX
hologo 1f.		(Tex
\hologo3	0	
	Options 1 f.	U
I	\Originallogo3	Usage 2 f.
ifluatex 1	\originallogo3	
ifxetex 1		V
_	P	verbose2
L	\pdfLaTeX2	VC1 003C
\LaTeX 2	\pdfTeX 2	
\LaTeXe 2		X
\LaTeXTeX	R	\XeLaTeX2
libertine 1	\restorelogos3	\XeTeX 2