

The `luatexbase` package

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v0.2a 2010-05-27

Abstract

This convenience package loads all of the (stable) packages in the `luatexbase` bundle.

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1 Documentation

The `luatexbase` package loads the following packages:

luatexbase-compat: compatibility helpers for `\directlua`, primitive names and version information from Lua.

luatexbase-loader: extension of LuaTeX's Lua module loader (since version 0.60.0, this is more of a compatibility layer for older versions than a real extension).

luatexbase-regs: extended allocation scheme for registers and the like, *à la etex*.

luatexbase-cctb: catcode table allocation.

luatexbase-attr: attribute allocation.

These packages are almost stable: it is unlikely that backward-incompatible changes will be made in the future (other than necessary for merging with `luatex.sty`, which strongly overlaps with the above). If they happen, such changes will be announced on `lualatex-dev@tug.org` before they are pushed to the master branch and then CTAN.

Other packages included in the bundle, but currently not loaded by the present package, are:

luatexbase-modutils: Lua module declaration, including version checks.

luatexbase-mcb: callbacks extensions allowing to register many functions in a single callback, and declare new callbacks for packages.

All packages in this bundle are supposed to work with LuaTeX 0.25.4 to 0.60.x, with formats based on Plain TeX or L^AT_EX, as included in TeX Live 2008, 2009, and 2010.

2 Implementation

1 `(*texpackage)`

2.1 Preliminaries

Reload protection, especially for Plain TeX.

2 `\csname lltxb@core@loaded\endcsname`
3 `\expandafter\let\csname lltxb@core@loaded\endcsname\endinput`

Catcode defenses.

4 `\begingroup`
5 `\catcode123 1 % {`
6 `\catcode125 2 % }`
7 `\catcode 35 6 % #`
8 `\toks0{\}%`
9 `\def\x{\%`
10 `\def\y#1 #2 {%`
11 `\toks0\expandafter{\the\toks0 \catcode#1 \the\catcode#1}%`
12 `\edef\x{\x \catcode#1 #2}{}%`
13 `\y 123 1 % {`
14 `\y 125 2 % }`
15 `\y 35 6 % #`
16 `\y 10 12 % ^^J`
17 `\y 34 12 % "`
18 `\y 36 3 % $ $`
19 `\y 39 12 % '`
20 `\y 40 12 % (`
21 `\y 41 12 %)`
22 `\y 42 12 % *`
23 `\y 43 12 % +`
24 `\y 44 12 % ,`
25 `\y 45 12 % -`
26 `\y 46 12 % .`
27 `\y 47 12 % /`
28 `\y 60 12 % <`
29 `\y 61 12 % =`
30 `\y 64 11 % @ (letter)`
31 `\y 62 12 % >`
32 `\y 95 12 % _ (other)`
33 `\y 96 12 % '`
34 `\edef\y#1{\endgroup\edef#1{\the\toks0\relax}\x}{}%`
35 `\expandafter\y\csname lltxb@core@AtEnd\endcsname`

Package declaration.

```
36 \begingroup
37   \expandafter\ifx\csname ProvidesPackage\endcsname\relax
38     \def\x#1[#2]{\immediate\write16{Package: #1 #2}}
39   \else
40     \let\x\ProvidesPackage
41   \fi
42 \expandafter\endgroup
43 \x{luatexbase}[2010/05/27 v0.2a Module utilities for LuaTeX]
```

Make sure \LaTeX is used.

```
44 \begingroup\expandafter\expandafter\expandafter\endgroup
45 \expandafter\ifx\csname RequirePackage\endcsname\relax
46   \input ifluatex.sty
47 \else
48   \RequirePackage{ifluatex}
49 \fi
50 \ifluatex\else
51   \begingroup
52     \expandafter\ifx\csname PackageWarningNoLine\endcsname\relax
53       \def\x#1#2{\begingroup\newlinechar10
54         \immediate\write16{Package #1 warning: #2}\endgroup}
55     \else
56       \let\x\PackageWarningNoLine
57     \fi
58   \expandafter\endgroup
59   \x{luatexbase}{LuaTeX is required for this package. Aborting.}
60   \lltxb@core@AtEnd
61   \expandafter\endinput
62 \fi
```

2.2 Packages loading

```
63 \begingroup\expandafter\expandafter\expandafter\endgroup
64 \expandafter\ifx\csname RequirePackage\endcsname\relax
65   \input luatexbase-compat.sty
66   \input luatexbase-loader.sty
67   \input luatexbase-regss.sty
68   \input luatexbase-attr.sty
69   \input luatexbase-cctb.sty
70 \else
71   \RequirePackage{luatexbase-compat}
72   \RequirePackage{luatexbase-loader}
73   \RequirePackage{luatexbase-regss}
74   \RequirePackage{luatexbase-attr}
75   \RequirePackage{luatexbase-cctb}
76 \fi
```

This is the end, my friend... the end.

```
77 \lltxb@core@AtEnd
```

78 </texpackage>