

The `lualibs` package

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Abstract

Additional lua functions taken from the libs of ConT_EXt. For an introduction on this package (among others), please refer to the document `luatex-reference.pdf`.

1 Overview

Lua is a very minimal language, and it does not have a minimal standard library. The aim of this package is to provide an extended standard library, to be used by various LuaT_EX packages. The code is specific to LuaT_EX and depends on LuaT_EX functions and modules not available in regular lua. The code is derived from ConT_EXt libraries.

2 Usage

You can either load the `lualibs` module, which will load all other modules, provided by this package: `require("lualibs")`, or explicitly load the modules you need, e.g.: `require("lualibs-table")`, please note that some modules depend on others.

If your code is running under `texlua`, you will need to initialize `kpse` library so that `require()` can find files under TEXMF tree: `kpse.set_program_name("luatex")`.

3 lualibs.lua

```
1 module('lualibs', package.seeall)
2
3 local lualibs_module = {
4     name      = "lualibs",
5     version   = 0.95,
6     date      = "2010/06/28",
7     description = "Lua additional functions.",
8     author    = "Hans Hagen, PRAGMA-ADE, Hasselt NL & Elie Roux",
9     copyright  = "PRAGMA ADE / ConTeXt Development Team",
10    license    = "See ConTeXt's mreadme.pdf for the license",
11 }
12
13 if luatexbase and luatexbase.provides_module then
14     luatexbase.provides_module(lualibs_module)
15 end
```

Load the modules.

```
16 require("lualibs-string")
17 require("lualibs-lpeg")
18 require("lualibs-boolean")
19 require("lualibs-number")
20 require("lualibs-math")
21 require("lualibs-table")
22 require("lualibs-aux")
23 require("lualibs-io")
24 require("lualibs-os")
25 require("lualibs-file")
26 require("lualibs-md5")
27 require("lualibs-dir")
28 require("lualibs-unicode")
29 require("lualibs-utils")
30 require("lualibs-dimen")
31 require("lualibs-url")
32 require("lualibs-set")
33 require("lualibs-dimen")
```