

# The `lualibs` package

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## Abstract

Additional lua functions taken from the libs of ConTeXt. 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 LuaTeX packages. The code is specific to LuaTeX and depends on LuaTeX functions and modules not available in regular lua.

The code is derived from ConTeXt 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       = 0.96,
6     date          = "2011/01/20",
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")
```