# Lua 5.1 Reference Manual

The reference manual is the official definition of the Lua language. For a complete introduction to Lua programming, see the book [Programming in Lua](http://www.lua.org/docs.html#pil).

This manual is also available as a book:

 **Lua 5.1 Reference Manual**

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[luaL\_argerror](http://docs.google.com/manual.html#luaL_argerror)  [luaL\_buffinit](http://docs.google.com/manual.html#luaL_buffinit)  [luaL\_callmeta](http://docs.google.com/manual.html#luaL_callmeta)  [luaL\_checkany](http://docs.google.com/manual.html#luaL_checkany)  [luaL\_checkint](http://docs.google.com/manual.html#luaL_checkint)  [luaL\_checkinteger](http://docs.google.com/manual.html#luaL_checkinteger)  [luaL\_checklong](http://docs.google.com/manual.html#luaL_checklong)  [luaL\_checklstring](http://docs.google.com/manual.html#luaL_checklstring)  [luaL\_checknumber](http://docs.google.com/manual.html#luaL_checknumber)  [luaL\_checkoption](http://docs.google.com/manual.html#luaL_checkoption)  [luaL\_checkstack](http://docs.google.com/manual.html#luaL_checkstack)  [luaL\_checkstring](http://docs.google.com/manual.html#luaL_checkstring)  [luaL\_checktype](http://docs.google.com/manual.html#luaL_checktype)  [luaL\_checkudata](http://docs.google.com/manual.html#luaL_checkudata)  [luaL\_dofile](http://docs.google.com/manual.html#luaL_dofile)  [luaL\_dostring](http://docs.google.com/manual.html#luaL_dostring)  [luaL\_error](http://docs.google.com/manual.html#luaL_error)  [luaL\_getmetafield](http://docs.google.com/manual.html#luaL_getmetafield)  [luaL\_getmetatable](http://docs.google.com/manual.html#luaL_getmetatable)  [luaL\_gsub](http://docs.google.com/manual.html#luaL_gsub)  [luaL\_loadbuffer](http://docs.google.com/manual.html#luaL_loadbuffer)  [luaL\_loadfile](http://docs.google.com/manual.html#luaL_loadfile)  [luaL\_loadstring](http://docs.google.com/manual.html#luaL_loadstring)  [luaL\_newmetatable](http://docs.google.com/manual.html#luaL_newmetatable)  [luaL\_newstate](http://docs.google.com/manual.html#luaL_newstate)  [luaL\_openlibs](http://docs.google.com/manual.html#luaL_openlibs)  [luaL\_optint](http://docs.google.com/manual.html#luaL_optint)  [luaL\_optinteger](http://docs.google.com/manual.html#luaL_optinteger)  [luaL\_optlong](http://docs.google.com/manual.html#luaL_optlong)  [luaL\_optlstring](http://docs.google.com/manual.html#luaL_optlstring)  [luaL\_optnumber](http://docs.google.com/manual.html#luaL_optnumber)  [luaL\_optstring](http://docs.google.com/manual.html#luaL_optstring)  [luaL\_prepbuffer](http://docs.google.com/manual.html#luaL_prepbuffer)  [luaL\_pushresult](http://docs.google.com/manual.html#luaL_pushresult)  [luaL\_ref](http://docs.google.com/manual.html#luaL_ref)  [luaL\_register](http://docs.google.com/manual.html#luaL_register)  [luaL\_typename](http://docs.google.com/manual.html#luaL_typename)  [luaL\_typerror](http://docs.google.com/manual.html#luaL_typerror)  [luaL\_unref](http://docs.google.com/manual.html#luaL_unref)  [luaL\_where](http://docs.google.com/manual.html#luaL_where) |
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