

Lua基础

Lua介绍

特点：轻量、小巧。C语言开发。开源。

设计的目的：嵌入到应用程序当中，提供灵活的扩展和定制化的功能。

lua+nginx , lua+redis。

环境安装

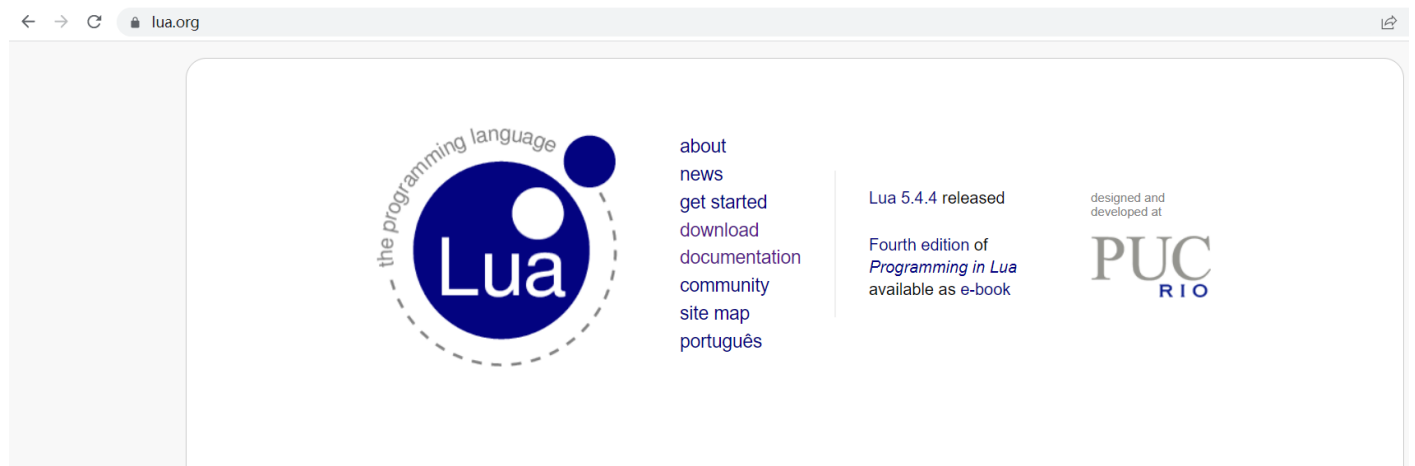
windows上安装lua：

检查机器上是否有lua


```
C:\Users\cpf>lua
'lua' 不是内部或外部命令，也不是可运行的程序
或批处理文件。
```

```
C:\Users\cpf>
```

打开官网：lua.org



lua.org/download.html




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❖ Source

Lua is [free software](#) distributed in [source code](#). It may be used for any purpose, including commercial purposes, at absolutely no cost.

All [versions](#) are available for [download](#). The current version is [Lua 5.4](#) and its current release is [Lua 5.4.4](#).



lua-5.4.4.tar.gz
2022-01-13, 353K
md5: bd8ce7069ff99a400efd14cf339a727b
sha1: 03c27684b9d5d9783fb79a7c836ba1cdc5f309cd

❖ Building

Lua is implemented in pure ANSI C and compiles unmodified in all platforms that have an ANSI C compiler. Lua also compiles cleanly as C++.

Lua is very easy to build and install. There are [detailed instructions](#) in the package but here is a simple terminal session that downloads the current release of Lua and builds it in Linux:

```
curl -R -O http://www.lua.org/ftp/lua-5.4.4.tar.gz
tar xzf lua-5.4.4.tar.gz
cd lua-5.4.4
make all test
```

If you have trouble building Lua, [read the FAQ](#).

If you don't have the time or the inclination to compile Lua yourself, [get a binary](#) or try the [live demo](#).

❖ Tools

The main repository of Lua modules is [LuaRocks](#). See also [Awesome Lua](#). Pre-compiled Lua libraries and executables are available at [LuaBinaries](#). The [lua-users](#) wiki lists many user-contributed addons for Lua.

❖ Giving credit

❖ Supporting Lua

lua-binaries.sourceforge.net

Luabinaries

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Overview

LuaBinaries is a distribution of the [Lua](#) libraries and executables compiled for several platforms.

This distribution offers a standard set of Lua libraries for the available platforms that can be used in any project that wants to be compatible with [Tecgraf/PUC-Rio](#) products and [Kepler Project](#) components.

LuaBinaries is free software and uses the same [license](#) as Lua 5.

Motivation

Since Lua offers no standard set of libraries, many projects and teams have to build their own version of the Lua libraries and this can create binary incompatibilities among the resulting products.

Tecgraf/PUC-Rio and Kepler Project teams have a lot of shared products, so it made no sense to keep maintaining two (incompatible) sets of Lua libraries in parallel. While it would be nice to have a single standard for the whole Lua community, that is still not the reality. So both teams merged their requirements and now use a common set of files. Those files are called LuaBinaries and are available here for other Lua developers that want to use them.

Using a common set of libraries has some advantages for the developer:

- Easier interoperability with other products based on LuaBinaries
- Faster setup time for new Lua developers

If you need to recompile from sources and would like to ensure LuaBinaries compatibility, use the source package available at the [LuaBinaries Download](#) with no modifications. In fact the only change from the [Lua.org](#) package is the name of library and executable that use "luaXX" instead of "lua", where XX is the version number.

Installation

The LuaBinaries files are intended for advanced users and programmers who want to incorporate Lua in their applications or distributions and would like to keep compatibility with LuaBinaries, so they also will be compatible with many other modules available on the Internet. Get it from SourceForge or from the [dedicated servers](#) it is hosted in.

If what you want is a full Lua installation, please check other projects such as the [Lua for Windows](#), [LuaDist](#) or [LuaRocks](#).

History

点击下载：

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master 2 branches 9 tags Go to file Code

rjpcomputing Update README.md eb2cc9b on 25 May 2021 41 commits

ScITe	Added all files in the installer to maybe help others.	7 years ago
files	Updated to Lua 5.1.5 executables.	6 years ago
support	Added all files in the installer to maybe help others.	7 years ago
LuaForWindows.iss	- Updating changelog and revision for release.	4 years ago
README.md	Update README.md	11 months ago
changes.txt	- Updating changelog and revision for release.	4 years ago
todo.txt	Added all files in the installer to maybe help others.	7 years ago
vcredist_x86.4053.exe	Added all files in the installer to maybe help others.	7 years ago
vcredist_x86.exe	Added all files in the installer to maybe help others.	7 years ago

About

Lua for Windows is a 'batteries included environment' for the Lua scripting language on Windows. NOTICE: Looking for maintainer.

Readme 2.1k stars 157 watching 415 forks

Releases 9

Lua for Windows v5.1.5-52 Release on 31 Jan 2018 Latest

+ 8 releases

得到文件：LuaForWindows_v5.1.5-52.exe

双击，一直下一步。

验证安装结果：


```
C:\Users\cpf>lua
Lua 5.1.5 Copyright (C) 1994-2012 Lua.org, PUC-Rio
> print("hello world")
hello world
>

C:\Users\cpf>
```

linux安装lua

官网：<https://www.lua.org/>

lua.org/download.html




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❖ Giving credit

❖ Supporting Lua

步骤：

```
[root@localhost /]# mkdir lua
[root@localhost /]# cd lua/
[root@localhost lua]# curl -R -O http://www.lua.org/ftp/lua-5.4.4.tar.gz
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 352k 100 352k 0 0 16242 0 0:00:22 0:00:22 --:--:-- 9753
[root@localhost lua]# ll
total 356
-rw-r--r--. 1 root root 360876 Jan 13 11:15 lua-5.4.4.tar.gz
[root@localhost lua]# tar xzf lua-5.4.4.tar.gz
[root@localhost lua]# ll
total 356
drwxr-xr-x. 4 1026 1000 58 Jan 13 11:15 lua-5.4.4
-rw-r--r--. 1 root root 360876 Jan 13 11:15 lua-5.4.4.tar.gz
[root@localhost lua]# cd lua-5.4.4
[root@localhost lua-5.4.4]# ll
total 12
drwxr-xr-x. 2 1026 1000 189 Jan 13 06:33 doc
-rw-r--r--. 1 1026 1000 3146 Nov 4 12:25 Makefile
-rw-r--r--. 1 1026 1000 151 Jan 13 11:15 README
drwxr-xr-x. 2 1026 1000 4096 Jan 13 06:29 src
[root@localhost lua-5.4.4]# make all test

[root@localhost lua-5.4.4]# make install
```

检查lua脚本：

```
[root@localhost lua-5.4.4]# lua -v
Lua 5.1.4 Copyright (C) 1994-2008 Lua.org, PUC-Rio
[root@localhost lua-5.4.4]# cd /usr/local/bin/
[root@localhost bin]# ./lua -v
Lua 5.4.4 Copyright (C) 1994-2022 Lua.org, PUC-Rio
[root@localhost bin]#
```

编程方式

交互式：

linux:

```
[root@localhost lua-script]# lua
Lua 5.1.4 Copyright (C) 1994-2008 Lua.org, PUC-Rio
> print("hello")
hello
> ^C
```

windows:

```
D:\lua>lua
Lua 5.1.5 Copyright (C) 1994-2012 Lua.org, PUC-Rio
> print("hello")
hello
>
```

脚本式：

linux:

```
[root@localhost lua-script]# pwd
/lua/lua-script
[root@localhost lua-script]# vi hello.lua
[root@localhost lua-script]# lua hello.lua
script lua
[root@localhost lua-script]#
```

windows

```
D:\lua>lua hello.lua  
script lua win
```

```
D:\lua>
```