

R 的简介与安装

卜京

南京大学

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学习目标

- 完成 R, RStudio、Ctex 和 Pandoc 的安装
- 因为 R 本身是开源软件，其核心团队规模和资源都有限，不可能把各种衍生功能都包含在 R 软件中。装了上述软件后，无论是分析数据、画图，还是完成精美的报告和展示文档你都感受到它们的强大魅力！

- 各位小伙伴们按照自己的操作系统分别点击下面的链接就可以进入 R 软件的下载页面了。现在最新的版本是 R-3.5.1
- R for Windows: windows
- <https://cran.rproject.org/bin/windows/base/>
- R for Mac: Mac
- <https://cran.r-project.org/bin/macosx/>

安装 R

- 当然也可以从 R 软件的官方主页首页进入。官方主页上有很多关于 R 软件的信息和资料，有兴趣的同学可以学习参考！请别问我为什么没有中文网页？进入计量软件和程序员的世界里你就会发现，几乎所有的最新信息和应用开发都是来自于英文世界。当然，现在随着 R 及相关应用的广泛传播，中文资源也开始多了起来，但还是无法跟英文资源相提并论。
- 有的时候，R 会让你选择一个镜像 (Mirror)。镜像是跟主站是一个相对的概念。本质上相当于互联网上的分公司或品牌连锁店，这样可让你在本地就能享受到跟主站完全相同的“美食”或“服务”，而不必要出远门。尤其是对国外访问动不动就莫名其妙失灵，的中国用户来说，本地镜像的重要性就更加不言而喻了。



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The R Project for Statistical Computing

Getting Started

R is a free software environment for statistical computing and graphics. It compiles and runs on a wide variety of UNIX platforms, Windows and MacOS. To [download R](#), please choose your preferred [CRAN mirror](#).

If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

News

- **R version 3.4.2 (Short Summer) prerelease versions** will appear starting Monday 2017-09-18. Final release is scheduled for Thursday 2017-09-28.
- **The R Journal Volume 9/1** is available.
- **R version 3.4.1 (Single Candle)** has been released on Friday 2017-06-30.
- **R version 3.3.3 (Another Canoe)** has been released on Monday 2017-03-06.
- **The R Journal Volume 8/2** is available.
- **useR! 2017** (July 4 - 7 in Brussels) has opened registration and more at <http://user2017.brussels/>
- Tomas Kalibera has joined the R core team.
- The R Foundation welcomes five new ordinary members: Jennifer Bryan, Dianne Cook, Julie Josse, Tomas Kalibera, and Balasubramanian Narasimhan.
- **The R Journal Volume 8/1** is available.
- The **useR! 2017** conference will take place in Brussels, July 4 - 7, 2017.
- **R version 3.2.5 (Very, Very Secure Dishes)** has been released on 2016-04-14. This is a rebadging of the quick-fix release 3.2.4-revised.
- **Notice XQuartz users (Mac OS X)** A security issue has been detected with the Sparkle update

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CRAN Mirrors

The Comprehensive R Archive Network is available at the following URLs, please choose a location close to you. Some statistics on the status of the mirrors can be found here: [ma](#)

If you want to host a new mirror at your institution, please have a look at the [CRAN Mirror HOWTO](#).

0-Cloud

<https://cloud.r-project.org/>

Automatic redirection to servers worldwide, currently sponsored by Rstudio

<http://cloud.r-project.org/>

Automatic redirection to servers worldwide, currently sponsored by Rstudio

Algeria

<https://cran.ussthb.dz/>

University of Science and Technology Houari Boumediene

<http://cran.ussthb.dz/>

University of Science and Technology Houari Boumediene

Argentina

<http://mirror.fcaglp.unlp.edu.ar/CRAN/>

Universidad Nacional de La Plata

Australia

<https://cran.csiro.au/>

CSIRO

<http://cran.csiro.au/>

CSIRO

<https://mirror.aarnet.edu.au/pub/CRAN/>

AARNET

<https://cran.ms.unimelb.edu.au/>

School of Mathematics and Statistics, University of Melbourne

<https://cran.curtin.edu.au/>

Curtin University of Technology

Austria

<https://cran.wu.ac.at/>

Wirtschaftsuniversität Wien

<http://cran.wu.ac.at/>

Wirtschaftsuniversität Wien

Belgium

<http://www.freeststatistics.org/cran/>

K.U.Leuven Association

<https://lib.ugent.be/CRAN/>

Ghent University Library

<http://lib.ugent.be/CRAN/>

Ghent University Library

Brazil

<http://mbe.gib.uesc.br/mirrors/cran/>

Center for Comp. Biol. at Universidade Estadual de Santa Cruz

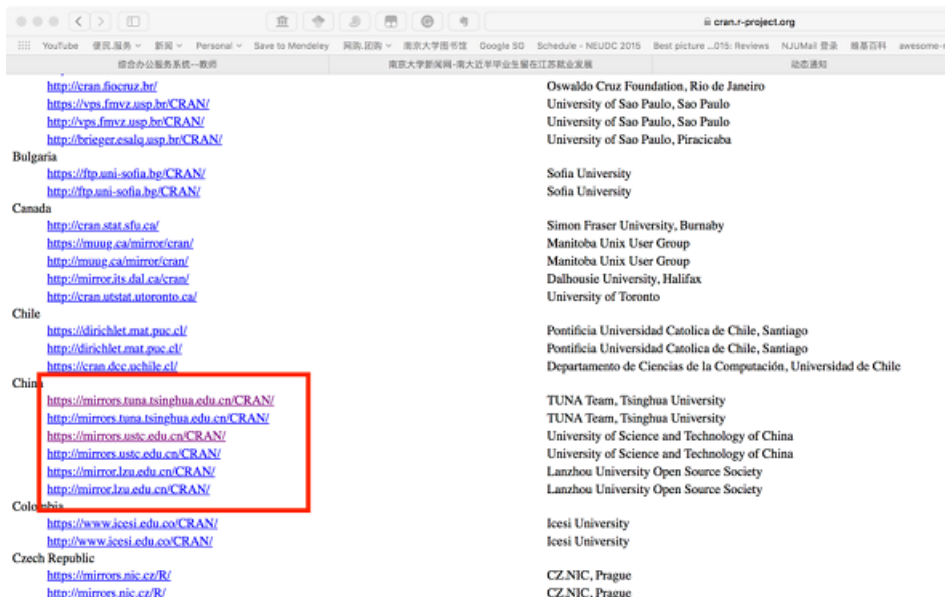
<https://cran-r.c3sl.ufpr.br/>

Universidade Federal do Parana

<http://cran-r.c3sl.ufpr.br/>

Universidade Federal do Parana

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http://cran.fiocruz.br/	Oswaldo Cruz Foundation, Rio de Janeiro
https://vps.fmvz.usp.br/CRAN/	University of Sao Paulo, Sao Paulo
http://vps.fmvz.usp.br/CRAN/	University of Sao Paulo, Sao Paulo
http://brieger.esalq.usp.br/CRAN/	University of Sao Paulo, Piracicaba
Bulgaria	
https://ftp.uni-sofia.bg/CRAN/	Sofia University
http://ftp.uni-sofia.bg/CRAN/	Sofia University
Canada	
http://cran.stat.sfu.ca/	Simon Fraser University, Burnaby
https://muug.ca/mirror/cran/	Manitoba Unix User Group
http://muug.ca/mirror/cran/	Manitoba Unix User Group
http://mirror.its.dal.ca/cran/	Dalhousie University, Halifax
http://cran.utstat.utoronto.ca/	University of Toronto
Chile	
https://dirichlet.mat.puc.cl/	Pontificia Universidad Catolica de Chile, Santiago
http://dirichlet.mat.puc.cl/	Pontificia Universidad Catolica de Chile, Santiago
https://cran.dcc.uchile.cl/	Departamento de Ciencias de la Computación, Universidad de Chile
China	
https://mirrors.tuna.tsinghua.edu.cn/CRAN/	TUNA Team, Tsinghua University
http://mirrors.tuna.tsinghua.edu.cn/CRAN/	TUNA Team, Tsinghua University
https://mirrors.ustc.edu.cn/CRAN/	University of Science and Technology of China
http://mirrors.ustc.edu.cn/CRAN/	University of Science and Technology of China
https://mirror.lzu.edu.cn/CRAN/	Lanzhou University Open Source Society
http://mirror.lzu.edu.cn/CRAN/	Lanzhou University Open Source Society
Colombia	
https://www.icesi.edu.co/CRAN/	Icesi University
http://www.icesi.edu.co/CRAN/	Icesi University
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http://mirrors.nic.cz/R/	CZ.NIC, Prague

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The Comprehensive R Archive Network

Download and Install R

Precompiled binary distributions of the base system and contributed packages, **Windows and Mac** users most likely want to download the precompiled binaries listed in the upper box, not the source code.

- [Download R for Linux](#)
- [Download R for \(Mac\) OS X](#)
- [Download R for Windows](#)

R is part of many Linux distributions, you should check with your Linux package management system in advance.

Source Code for all Platforms

Windows and Mac users most likely want to download the precompiled binaries listed in the upper box, not the source code. If you do not know what this means, you probably do not want to do it!

- The latest release (Friday 2017-06-30, Single Candle) [R-3.4.1.tar.gz](#), read [what's new](#) in the latest version.
- Sources of [R alpha and beta releases](#) (daily snapshots, created only in time periods before a planned release).
- Daily snapshots of current patched and development versions are [available here](#). Please read about [new features](#) corresponding feature requests or bug reports.
- Source code of older versions of R is [available here](#).
- Contributed extension [packages](#)

Questions About R

- If you have questions about R like how to download and install the software, or what the license terms are, please [asked questions](#) before you send an email.

What are R and CRAN?

R is 'GNU S', a freely available language and environment for statistical computing and graphics which provides a wide variety of statistical and graphical techniques.

安装 R



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R for Windows

Subdirectories:

[base](#)

[contrib](#)

[old.contrib](#)

[Rtools](#)

Binaries for base distribution (managed by Duncan Murdoch). This is what you want to **install**.

Binaries of contributed CRAN packages (for R \geq 2.11.x; managed by Uwe Ligges). There is a separate directory available for CRAN Windows services and corresponding environment and make variables.

Binaries of contributed CRAN packages for outdated versions of R (for R $<$ 2.11.x; managed by Uwe Ligges).

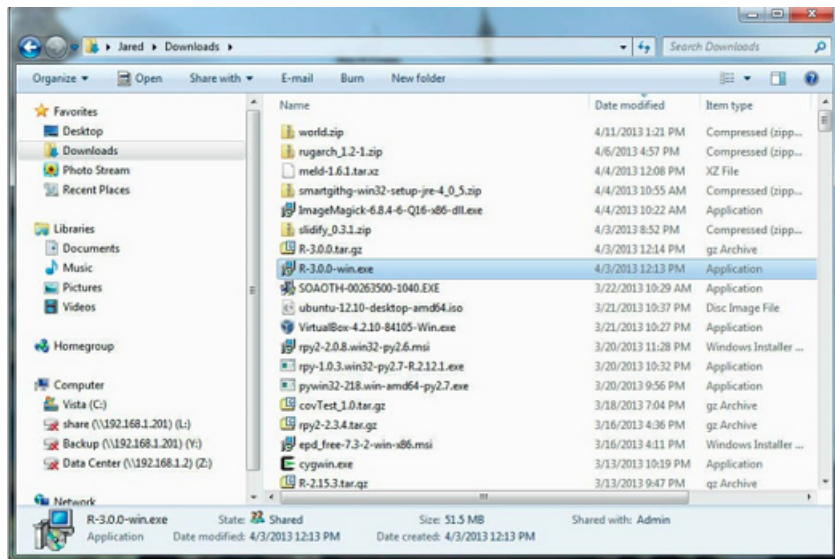
Tools to build R and R packages (managed by Duncan Murdoch). This is what you want to build R itself.

Please do not submit binaries to CRAN. Package developers might want to contact Duncan Murdoch or Uwe Ligges directly in case of problems.

You may also want to read the [R FAQ](#) and [R for Windows FAQ](#).

Note: CRAN does some checks on these binaries for viruses, but cannot give guarantees. Use the normal precautions with downloaded files.

安装 R



安装 R



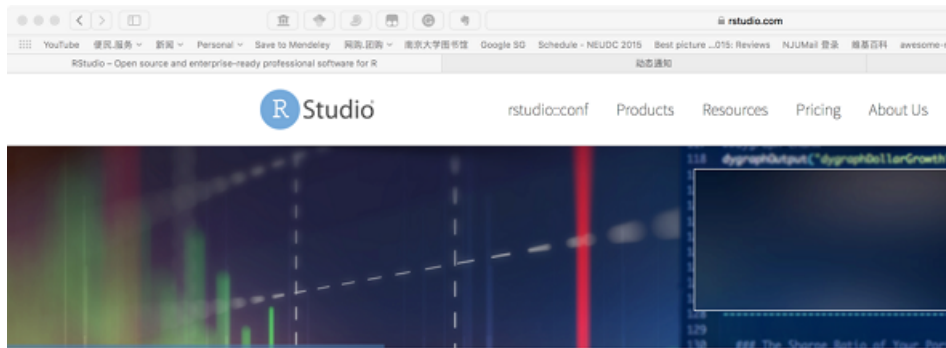
安装 R



安装 RStudio

- R 本身随便也带了一个编辑器，叫 R-Script，但不是很好用。R 软件本身功能很强大，但很多配套功能都比较差。比如很多命令执行之后，不能立即展示结果，要看到这些结果，还需要再执行一些特殊命令，实在是比较繁琐。所以 RStudio 这样的 IDE(Integrated Development Environment) 就自然而然的有了需求。IDE 可以简单理解成一个基于 R 基础上的开发的一个能使 R 更易用、具有更多功能的软件。RStudio 目前是目前公认最好的，也是应用最广泛的关于 R 的 IDE。R 本身是不需要付费的，但 RStudio 的企业版是必须要付费才能使用。好在我们只用免费的个人版就行了。
- 可以直接访问 RStudio 公司主页来下载:RStudio

安装 RStudio



安装 RStudio

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rstudio.com

Download RStudio - RStudio

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Choose Your Version of RStudio

RStudio is a set of integrated tools designed to help you be more productive with R. console, syntax-highlighting editor that supports direct code execution, and a variety of tools for plotting, viewing history, debugging and managing your workspace. [Learn RStudio features.](#)

RStudio Desktop Open Source License	RStudio Desktop Commercial License	RStudio Server Open Source License	RStudio Server Pro Commercial License	RStudio Commercial License
FREE	\$995 per year	FREE	\$9,995 per year	\$2,995 per year
DOWNLOAD	BUY	DOWNLOAD	DOWNLOAD	DOWNLOAD
Learn More	Learn More	Learn More	Learn More	Learn More

安装 RStudio

The screenshot shows the RStudio Desktop 1.0.153 release notes page. A red arrow points from the text 'Window系统' to the Windows installer link. Another red arrow points from the text 'Mac系统' to the Mac installer link.

RStudio Desktop 1.0.153 — Release Notes

RStudio requires R 2.11.1+. If you don't already have R, download it [here](#).

Installers for Supported Platforms

Instal·ers	Size	Date	MD5
RStudio 1.0.153 - Windows Vista/7/8/10	81.9 MB	2017-07-20	b3b4bbcb2865ab105e21cb70b17271f
RStudio 1.0.153 - Mac OS X (64-bit)	71.2 MB	2017-07-20	8773610566b74ec3e1a88b2fdb10c8f
RStudio 1.0.153 - Linux 12.04-15.10/Debian 8 (32-bit)	85.5 MB	2017-07-20	981be44f91fc07e5f69f52330da326f
RStudio 1.0.153 - Ubuntu 12.04-15.10/Debian 8 (64-bit)	91.7 MB	2017-07-20	2d0769bea2bf6041511d6901a1cf69a
RStudio 1.0.153 - Ubuntu 16.04+/Debian 9+ (64-bit)	61.9 MB	2017-07-20	d584cbab01041777a15d62cbef69a9f
RStudio 1.0.153 - Fedora 19+/Red Hat 7+/openSUSE 13.1+ (32-bit)	84.7 MB	2017-07-20	8dfec96059b05a063c49b705eca0ce1
RStudio 1.0.153 - Fedora 19+/Red Hat 7+/openSUSE 13.1+ (64-bit)	85.7 MB	2017-07-20	16c2c8334f961c65d9bfa8fb813ad7e

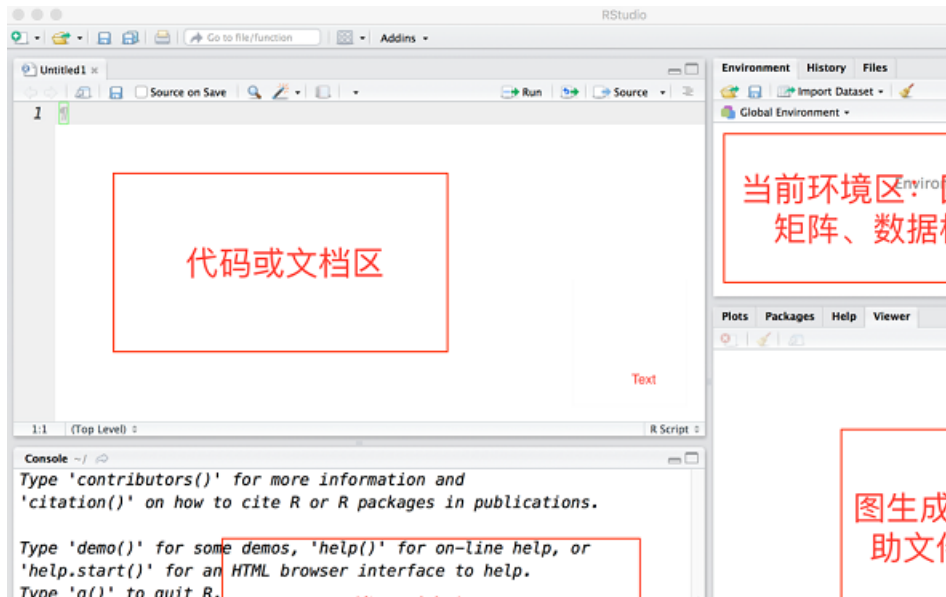
Zip/Tarballs

Zip/tar archives	Size	Date	MD5
RStudio 1.0.153 - Windows Vista/7/8/10	117.6 MB	2017-07-20	024b5714fa6ef337fe0c6f5e2894cb
RStudio 1.0.153 - Ubuntu 12.04-15.10/Debian 8 (32-bit)	86.2 MB	2017-07-20	f8e0ffa7ec62665524f9e2477fec0d3
RStudio 1.0.153 - Ubuntu 12.04-15.10/Debian 8 (64-bit)	92.7 MB	2017-07-20	2077c181311d1aad66f8bd435f8f1e4
RStudio 1.0.153 - Fedora 19+/Red Hat 7+/openSUSE 13.1+ (32-bit)	85.4 MB	2017-07-20	92e1a22d14952273ec389e5a55be61
RStudio 1.0.153 - Fedora 19+/Red Hat 7+/openSUSE 13.1+ (64-bit)	86.6 MB	2017-07-20	0b71c5a7fc53c84b3fe67242240b35

Source Code

A tarball containing source code for RStudio v1.0.153 can be downloaded from [here](#)

安装 RStudio



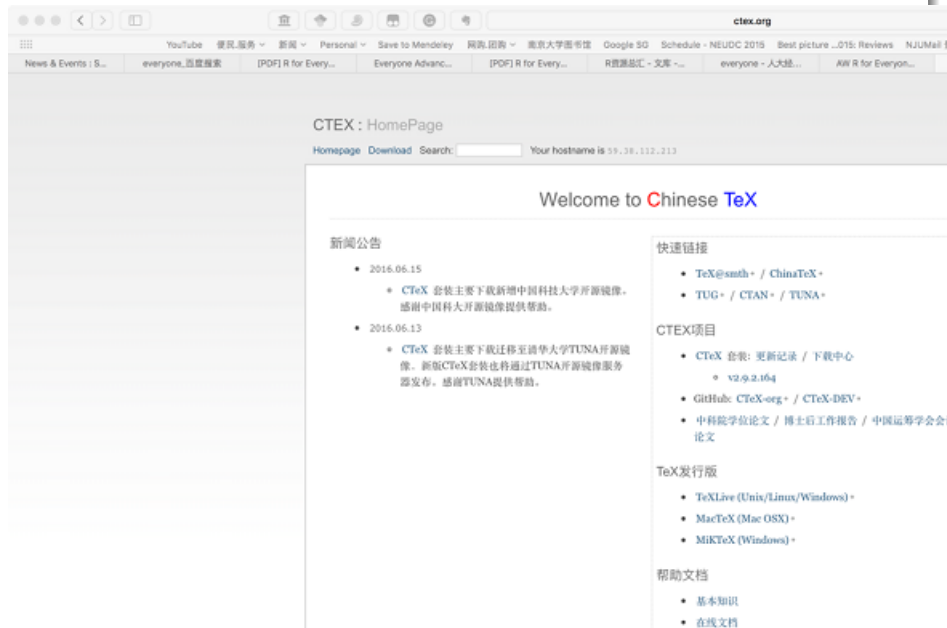
安装 Latex 相关软件

- Latex 是一种文字编辑处理排版的软件。简单理解是相当于另一种 office 软件（集合了 Word 和 Powerpoint 的功能）。与 Word 的简单区别在于 Latex 不是“所见即所得”式的软件，即我们不能随意的在窗口里调整整个文档的格式，而是要通过各种函数、命令或者程序包的设定来确定文字版面的格式。
- Latex 的好处在于美观，这种美观性来自于格式的规范和准确。尤其是当在文中包含大量公式和图表等内容时，不会出现错位和乱码等问题。这方面使用过 Word 输入过公式和图表的同学都感受过“不能对齐”的痛苦。
- 想要使用 Latex 必须要学习 Latex “语法”。这其实是一整套的文字编辑的语言，如果想要全部掌握，也没有那么容易。正如虽然几乎每天都使用 word，但 word 里的大部分功能我们都很少使用一样。学习 Latex 也可以先从最简单的方式开始，很多复杂的功能等到以后碰到问题需要时再学习应用。在本课程的内容中，大家只需要安装好即可。

安装 MikTeX 与 CTeX

- MikTeX 是 Windows 下最好用的 TeX 系统。
- MikTeX 安装也比较容易，访问 MikTeX 官方主页，找到相应的下载安装包，安装即可。
- CTeX 是一个基于中文系统的 Latex 安装包，里边包含了 Windows 系统下最好用的 TeX 系统——MikTeX。
- CTeX 安装也比较容易，访问 CTeX 主页: CTeX
- <http://www.ctex.org/HomePage>
- 找到相应的安装下载包，安装即可。推荐安装 Full version

安装 MikTeX 与 CTeX



The screenshot shows the CTeX.org homepage. At the top is a navigation bar with links like YouTube, 便民服务, 新闻, Personal, Save to Mendeley, 网路团购, 南京大学图书馆, Google SG, Schedule - NEUDC 2016, Best picture ...015: Reviews, and NJUMail. Below this is a search bar and a list of links including News & Events, everyone_百度搜索, [PDF] R for Every..., Everyone Advanc..., [PDF] R for Every..., R资源汇总 - 文库, everyone - 人大搜..., and AWR for Everyon... The main content area has a heading "CTEX: HomePage" and a sub-header "Welcome to Chinese TeX". It is divided into three columns. The left column, "新闻公告", contains two bullet points about the migration of the CTeX source code to Tsinghua University TUNA. The middle column, "快速链接", lists links to TeX@smth, ChinaTeX, TUG, CTAN, and TUNA. The right column, "CTEX项目", lists links to the CTeX package, its version v2.9.2.164, GitHub, and various academic resources. Below these are sections for "TeX发行版" (listing TeXLive, MacTeX, and MikTeX) and "帮助文档" (listing basic knowledge and online documentation).

CTEX: HomePage

Homepage Download Search: Your hostname is 59.38.112.213

Welcome to Chinese TeX

新闻公告

- 2016.06.15
 - CTeX 套装主要下载新疆中国科技大学开源镜像。感谢中国科大开源镜像提供帮助。
- 2016.06.13
 - CTeX 套装主要下载迁移至清华大学TUNA开源镜像。新版CTeX套装也将通过TUNA开源镜像服务器发布。感谢TUNA提供帮助。

快速链接

- TeX@smth+ / ChinaTeX+
- TUG+ / CTAN+ / TUNA+

CTEX项目

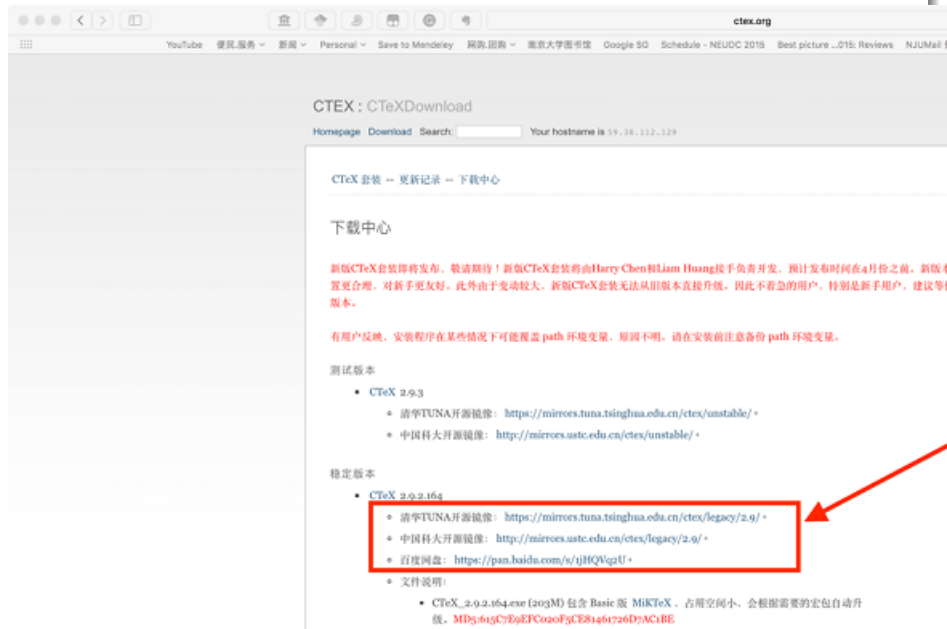
- CTeX 套装: 更新记录 / 下载中心
 - v2.9.2.164
- GitHub: CTeX-org+ / CTeX-DEV+
- 中科院学位论文 / 博士后工作报告 / 中国运筹学会论文

TeX发行版

- TeXLive (Unix/Linux/Windows)+
- MacTeX (Mac OSX)+
- MikTeX (Windows)+

帮助文档

- 基本知识
- 在线文档



ctex.org

Homepage Download Search: Your hostname is 59.38.112.129

CTeX : CTeXDownload

CTeX 套装 -- 更新记录 -- 下载中心

下载中心

新版CTeX套装即将发布, 敬请期待! 新版CTeX套装将由Harry Chen和Liam Huang接手负责开发, 预计发布时间在4月份之前, 新版配置更合理, 对新手更友好, 此外由于变动较大, 新版CTeX套装无法从旧版本直接升级, 因此不着急的用户, 特别是新手用户, 建议等待新版。

有用户反映, 安装程序在某些情况下可能覆盖 path 环境变量, 原因不明, 请在安装前注意备份 path 环境变量。

测试版本

- CTeX 2.9.3
 - 清华TUNA开源镜像: <https://mirrors.tuna.tsinghua.edu.cn/ctex/unstable/>
 - 中国科大开源镜像: <http://mirrors.ustc.edu.cn/ctex/unstable/>

稳定版本

- CTeX 2.9.2.164
 - 清华TUNA开源镜像: <https://mirrors.tuna.tsinghua.edu.cn/ctex/legacy/2.9/>
 - 中国科大开源镜像: <http://mirrors.ustc.edu.cn/ctex/legacy/2.9/>
 - 百度网盘: <https://pan.baidu.com/s/1jHQQVg2U>
 - 文件说明:
 - CTeX_2.9.2.164.exe (203M) 包含 Basic 版 MikTeX, 占用空间小, 会根据需要的宏包自动升级。MD5:615C7E9EFC020F3CE81461726D7AC1BE

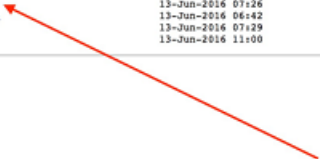
安装 MikTeX 与 CTeX

Grab File Edit Capture Window Help

mirrors.ustc.edu.cn

index of /ctex/legacy/2.9/

CTeX 2.9.2.164.exe	13-Jun-2016 06:51	212908707
CTeX 2.9.2.164_Full.exe	13-Jun-2016 07:26	1439135248
CTeX 2.9.2.164_Update.exe	13-Jun-2016 06:42	24978303
MD5SUMS	13-Jun-2016 07:29	171
MD5SUMS.sig	13-Jun-2016 11:00	287



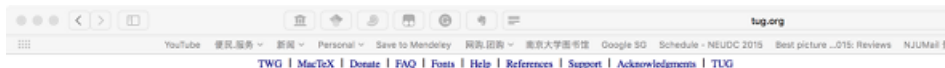
安装 Mactex(for Mac Users)

- Mac OS 系统下 TeX 系统要安装 MacTeX (文件很大, 没办法)。
- 安装也比较容易, 访问 MacTeX 主页: MacTeX
- <https://www.tug.org/mactex/>
- 找到相应的安装下载包, 推荐 Full version, 硬盘空间小的同学也可以装 Smaller version

安装 Pandoc

- Pandoc 是一种文本转换工具，可以把各种格式的文本文件转换成我们需要的格式，我们这里使用它主要是为了把以 Markdown 写成的文档转换成 PDF、Html 等大家喜闻乐见的形式（其实也可以设定转换成大家最熟悉的 Word）
- Pandoc 项目的主页：Pandoc
- <https://pandoc.org/>
- 进入 “installing”，分别选择 Windows 或 Mac OS X 系统下载

安装 Pandoc



The Full MacTeX

The full MacTeX-2017 install package contains three pieces

TeX Live 2017: the full distribution with over 2 gigabytes of material.

GUI Applications: front ends, utilities, and a small amount of startup documentation.

Ghostscript 9.21

A Smaller Distribution, Basic TeX

TUG recommends the full MacTeX, even for beginners. It contains all files most users ever need. Beginners using it don't face the daunting task of searching for missing components and figuring out how to install them in the TeX distribution.

BasicTeX is a much smaller alternate TeX Distribution for users who do not want to download the full TeX Live, or have unreliable internet connections. BasicTeX is a subset of TeX Live of size 110 megabytes instead of 2 gigabytes. BasicTeX does not overwrite the full distribution; it is installed in `/usr/local/texlive/2017/basic`.

BasicTeX only contains the TeX Live piece of the full distribution; it does not contain GUI programs or Ghostscript. To use TeX on the Mac, it suffices to install BasicTeX and a front end. To make life easier for users who want to use BasicTeX instead of the full TeX Live, we include links below to various pieces of MacTeX that can be added as needed.

BasicTeX was designed for easy download by users with limited download speed. The package is remarkably capable. It contains all of the standard tools needed to write TeX documents, including TeX, LaTeX, pdfTeX, MetaFont, dvips, MetaPost, and XeTeX. It contains AMSTeX, the Latin Modern Fonts, the TeX Live Manager to add and update packages from TeX Live, and the new SyncTeX.

BasicTeX.pkg

[approximately 72M - 07 June 2017]

The md5 sum is `d209c2e5ad1211cbfb0461b1f5e91c7`

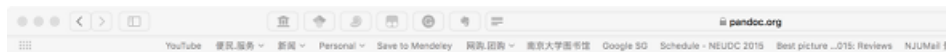
BasicTeX.pdf (about the BasicTeX distribution)

BasicTeX is also available via the *torrent network*.

GUI Programs and Documentation from MacTeX

根据自己硬盘大小分别安装

安装 Pandoc



Pandoc a universal document converter

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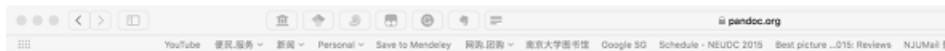
About pandoc

If you need to convert files from one markup format into another, pandoc is your swiss-arm. Pandoc can convert documents in [markdown](#), [reStructuredText](#), [textile](#), [HTML](#), [DocBook](#), [MediaWiki markup](#), [TWiki markup](#), [OPML](#), Emacs [Org-Mode](#), [TtxtTags](#), Microsoft Word [DOCX](#), LibreOffice [ODT](#), [EPUB](#), or [Haddock markup](#) to

- HTML formats: XHTML, HTML5, and HTML slide shows using [Slidy](#), [reveal.js](#), [SlideDZSlides](#).
- Word processor formats: Microsoft Word [docx](#), OpenOffice/LibreOffice [ODT](#), [OpenDocument XML](#)
- Ebooks: [EPUB](#) version 2 or 3, [FictionBook2](#)
- Documentation formats: [DocBook](#), [TEI Simple](#), [GNU TexInfo](#), [Groff man](#) pages, [Haddock markup](#)
- Page layout formats: [InDesign ICML](#)
- Outline formats: [OPML](#)
- TeX formats: [LaTeX](#), [ConTeXt](#), LaTeX Beamer slides
- [PDF](#) via LaTeX
- Lightweight markup formats: [Markdown](#) (including [CommonMark](#)), [reStructuredText](#), [MediaWiki markup](#), [DokuWiki markup](#), Emacs [Org-Mode](#), [Textile](#)
- Custom formats: custom writers can be written in [lua](#).

Pandoc understands a number of useful markdown syntax extensions, including document metadata (title, author, date); footnotes; tables; definition lists; superscript and subscript; [strikeout](#);

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Compiling from source

Getting the pandoc source code

Quick stack method

Quick cabal method

Custom cabal method

Creating a relocatable binary

Installing pandoc

Windows

- There is a package installer at pandoc's [download page](#).
- For PDF output, you'll also need to install LaTeX. We recommend [MiKTeX](#).
- If you'd prefer, you can extract the pandoc and pandoc-citeproc executables from the copy them directly to any directory, without running the installer. Here is an example how to extract the executables from the pandoc-1.19.1 installer and copy them to `C:\Utils\Console\`:

```
mkdir "%TEMP%\pandoc\  
start /wait msixexec.exe /a pandoc-1.19.1-windows.msi /qn targetdir="%TEMP%\pandoc\  
copy /y "%TEMP%\pandoc\pandoc.exe" C:\Utils\Console\  
copy /y "%TEMP%\pandoc\pandoc-citeproc.exe" C:\Utils\Console\  
rmdir /s /q "%TEMP%\pandoc\  

```

Mac OS X

- There is a package installer at pandoc's [download page](#). If you later want to uninstall it you can do so by downloading [this script](#) and running it with `perl uninstall-pandoc`.
- It is possible to extract the pandoc and pandoc-citeproc executables from the osx pkg rather than run the installer. To do this (for the version 1.19.1 package):

```
mkdir pandoc-extract  
cd pandoc-extract  
xar -x ../pandoc-1.19.1-osx.pkg  
cat pandoc.pkg/Payload | gunzip -dc | cpio -i  
# executables are now in /usr/bin/ man pages in /usr/share/man
```

安装 Pandoc

The screenshot shows the GitHub repository for `jgm/pandoc`. The repository has 377 watches, 9,515 stars, and 335 issues. The latest release is `1.19.2.1`, released on Feb 3, 2018. The release notes mention that 1828 commits were made to master since this release. The download section lists three files: `pandoc-1.19.2.1-amd64.deb`, `pandoc-1.19.2.1-osx.pkg` (circled in red), and `pandoc-1.19.2.1-windows.msi` (boxed in red). A red arrow points from the text "Ma" to the `pandoc-1.19.2.1-osx.pkg` file, and another red arrow points from the right edge to the `pandoc-1.19.2.1-windows.msi` file.

Latest release

1.19.2.1
92722ee

pandoc 1.19.2.1

jgm released this on Feb 3 - 1828 commits to master since this release

- Require skylighting >= 0.1.1.4.
- Adjust test output for skylighting version.
- Relax upper bounds on blaze-html and blaze-markup.

Downloads

- `pandoc-1.19.2.1-amd64.deb`
- `pandoc-1.19.2.1-osx.pkg`
- `pandoc-1.19.2.1-windows.msi`
- [Source code \(zip\)](#)

结束

- 至此，我们就暂时完成了 R 软件学习的所有软件安装工作。
- 关于这些软件的内容、功能和使用，网上有很多相关的介绍，很多都非常全面非常详细，我们的课其实只是给大家开个头，后面的很多应用还等待大家去自我探索。