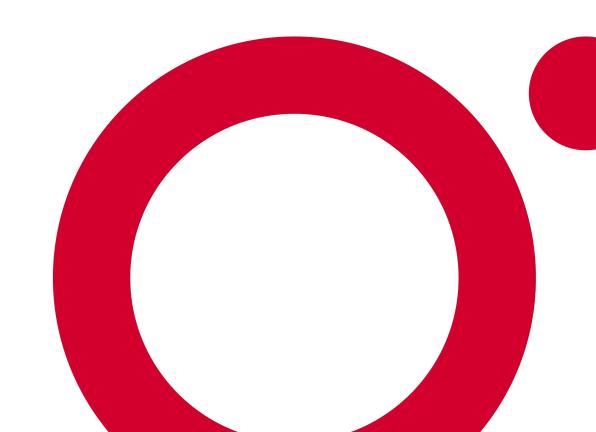
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R-Powered Excel



Month/Year

R and Excel for Business Analytics

R is...

A programming language



R is...

- A programming language
- A statistical package



R is...

- A programming language
- A statistical package
- Open-source



What is R and when would you use it? R is... R is not...

- A programming language
- A statistical package
- Open-source

A spreadsheet



R is...

- A programming language
- A statistical package
- Open-source

R is not...

- A spreadsheet
- A database



R is...

- A programming language
- A statistical package
- Open-source

R is not...

- A spreadsheet
- A database
- Commercially supported



CRAN: Maintains the "source

code..



CRAN
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Task Views
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About R
R Homepage
The R Journal

Software

R Sources R Binaries Packages Other

Documentation
Manuals
FAQS
Contributed

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 one of these versions of R:

- · 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 addition to the link above.

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. The sources have to be compiled before you can use them. If you do not know what this means, you probably do not want to do it!

- The latest release (2019-07-05, Action of the Toes) R-3.6.1.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 <u>available here</u>. Please read about <u>new features and bug fixes</u> before filing corresponding feature requests or bug reports.
- · Source code of older versions of R is available here.
- · Contributed extension packages

Ouestions About R

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.



Which anyone can build on...





... or contribute packages to.



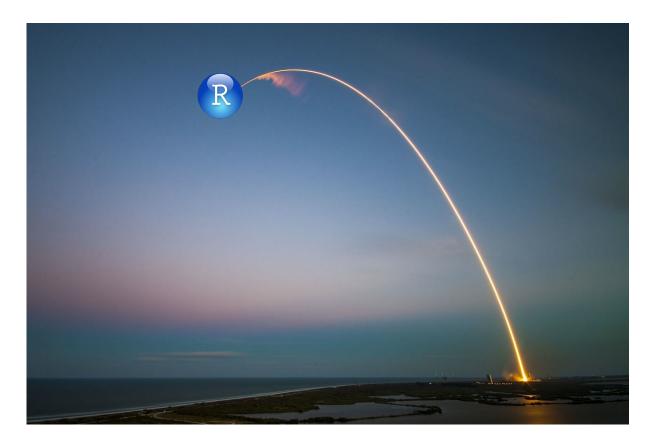


The package two-step

- Install the package
 - install.packages("tidyverse")
- Load it before use
 - library(tidyverse)

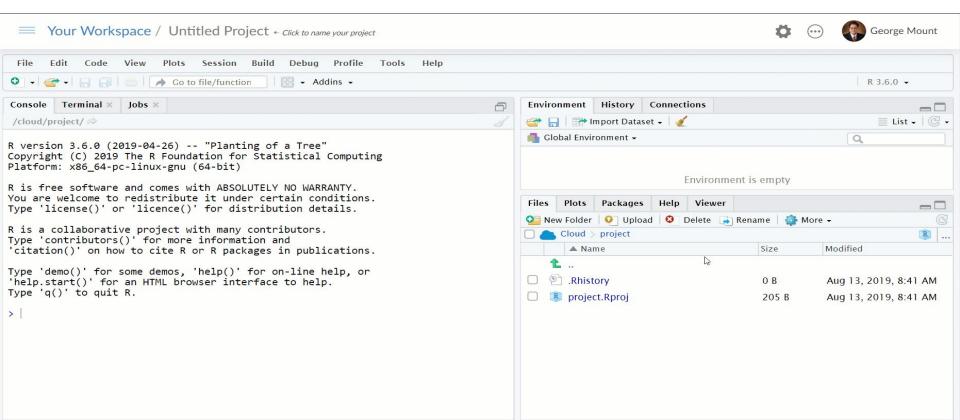


Time to launch RStudio...



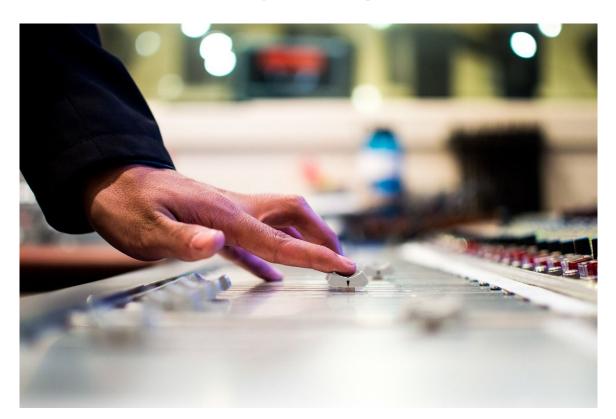


install.packages("tidyverse", dependencies = TRUE)



DJ CRAN spins R playlists:

https://cran.r-project.org/web/views/





- 1. Initialize the taskview package:
 - a. install.packages("ctv")
 - b. library(ctv)
- 2. Explore and install the Extreme Value taskview:
 - a. install.packages("Extrem
 eValue")

Drill: Install a taskview



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Questions?

