

University of São Paulo - USP Luiz de Queiroz College of Agriculture

Hello!

For the correct functioning of the R Programming Language and to make the most of our time in the class, we ask that you install the 02 (two) software:

- Language R, version 4.1.1: http://www.r-project.org
- RStudio, version 1.4,1717: https://rstudio.com

The first app will effectively allow your computer to understand the R language; the second is an integrated development environment for the R language - it can be said to be an enabler.

ATTENTION: if you already have the R language installed on your computer, but you indeed are a beginner, we reinforce the need to install the 4.1.1.1 version. This version is 'smarter' than previous versions, more easily recognizing possible categorical variables in a database. If you are looking at this course as an update, we ask that you use at least version 3.6.1.

INSTALLING R LANGUAGE

When entering the page http://www.r-project.org, we must click "CRAN", according to the figure below:



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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

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.

- R version 4.1.1 (Kick Things) has been released on 2021-08-10.
- R version 4.0.5 (Shake and Throw) was released on 2021-03-31.
- Thanks to the organisers of useR! 2020 for a successful online conference. Recorded tutorials and talks from the conference are available on the R Consortium YouTube channel.
- · You can support the R Foundation with a renewable subscription as a supporting member

After that, we must choose which server we will download the R language from. Take, for example, a mirror from USP:



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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: grelease, windows old release. If you want to host a new mirror at your institution, please have a look at the CRAN Mirror HOWTO Automatic redirection to servers worldwide, currently sponsored by Rstudio https://cloud.r-project.org/ https://cran.usthb.dz/ University of Science and Technology Houari Boumediene Argentina Universidad Nacional de La Plata http://mirror.fcaglp.unlp.edu.ar/CRAN/ Australia CSIRO https://cran.csiro.au/ https://mirror.aarnet.edu.au/pub/CRAN/ https://cran.ms.unimelb.edu.au/ School of Mathematics and Statistics, University of Melbo https://cran.curtin.edu.au/ Curtin University Wirtschaftsuniversität Wien https://cran.wu.ac.at/ Belgium https://www.freestatistics.org/cran/ Patrick Wessa https://ftp.belnet.be/mirror/CRAN/ Belnet, the Belgian research and education network Brazi1 https://nbcgib.uesc.br/mirrors/cran/ Computational Biology Center at Universidade Estadual de Santa Cruz https://cran-r.c3sl.ufpr.br/ Universidade Federal do Parana https://cran.fiocruz.br/ Oswaldo Cruz Foundation, Rio de Janeiro https://vps.fmvz.usp.br/CRAN/ University of Sao Paulo, Sao Paulo https://brieger.esalq.usp.br/CRAN University of Sao Paulo, Piracicaba

Next, we must choose which Operating System your machine will use to install the R language:

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.

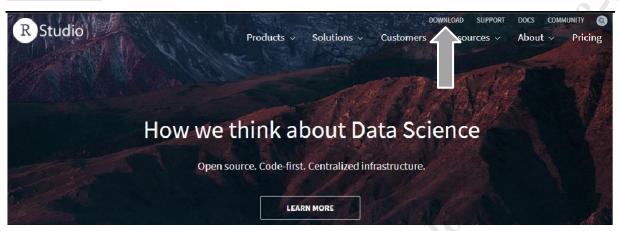
- For Windows users: click on "base", right after on "Download R 4.1.1 for Windows". Execute the downloaded file and install it as usual, with the default settings;
- For Mac users: click on "R-4.1.1.pkg". Install the application as usual, with the standard configurations;
- For Linux users: check if the adopted distribution already has R installed
 e.g.: Debian, RedHat [Fedora], Suse [OpenSuse], Ubuntu. If not, follow the instructions on the link: https://vps.fmvz.usp.br/CRAN/.

INSTALLING RSTUDIO

On the page https://rstudio.com, we must click on "Download":



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After that, we must roll the page down and click on "Download" of the Free version.

Next, we must click on the *link* corresponding to the version of the Operational System to be used.

After the download is finished, the file must be installed, as usual, keeping the default settings.

Best wishes!