

Introdução ao R

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Conhecendo o R

Conhecendo a Linguagem R

- É uma linguagem de programação livre e de código aberto (um projeto GNU).
- Linguagem de propósito específico Análise de Dados
 - Computação estatística
 - Criação de Gráficos
- https://www.r-project.org/about.html.

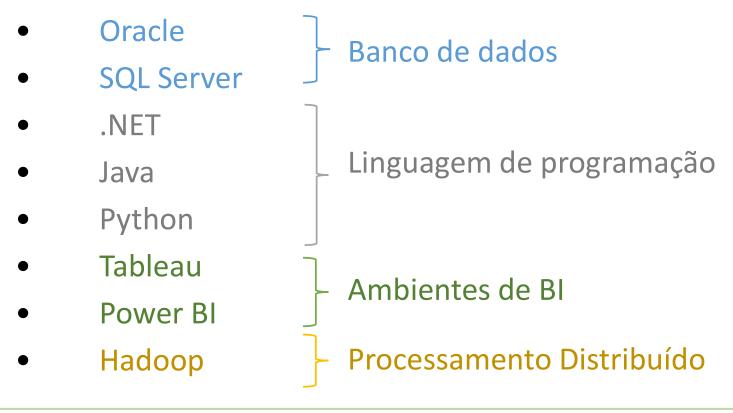


Conhecendo a Linguagem R

- Inúmeros recursos gráficos.
- Extensível: + 20 mil pacotes no CRAN.
- ► Interoperabilidade & Interconectividade: APIs/drivers para outros softwares/linguagens.
- Multiplataforma: Linux, Mac OS, Windows, Android.

Conhecendo a Linguagem R

Integração "out of box" com quase tudo:



Conhecendo o R



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R Blog

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 4.4.1 (Race for Your Life) has been released on 2024-06-14.
- We are deeply sorry to announce that our friend and colleague Friedrich (Fritz) Leisch has died. Read our tribute to Fritz here.
- R version 4.4.0 (Puppy Cup) has been released on 2024-04-24.
- R version 4.3.3 (Angel Food Cake) (wrap-up of 4.3.x) was released on 2024-02-29.
- · Registration for useR! 2024 has opened with early bird deadline March 31 2024.
- · You can support the R Foundation with a renewable subscription as a supporting member.

https://www.r-project.org/

Conhecendo o CRAN



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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 (Debian, Fedora/Redhat, Ubuntu)
- · Download R for macOS
- · 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 (2024-06-14, Race for Your Life) <u>R-4.4.1.tar.gz</u>, read <u>what's new</u> in the latest version.
- Sources of <u>R alpha and beta releases</u> (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 new features and bug fixes before filing corresponding feature

Pacotes por Tarefas

Topics

Actuarial Science
Agriculture
Bayesian
Causal Inference
Causal Inference
Causal Inference

 ChemPhys
 Chemometrics and Computational Physics

 ClinicalTrials
 Clinical Trial Design, Monitoring, and Analysis

 Cluster
 Cluster Analysis & Finite Mixture Models

 Databases
 Databases with R

 Differential Equations
 Differential Equations

 Distributions
 Probability Distributions

<u>Econometrics</u> Econometrics

Environmetrics Analysis of Ecological and Environmental Data

<u>Epidemiology</u> Epidemiology

Experimental Design of Experiments (DoE) & Analysis of Experimental Data

Extreme Value Analysis
Finance Empirical Finance
Functional Data Functional Data Analysis

<u>Graphical Models</u> Graphical Models

HighPerformanceComputing High-Performance and Parallel Computing with R

<u>Hydrological Data and Modeling</u>

<u>Machine Learning</u> Machine Learning & Statistical Learning

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

