

R e Rstudio

Manual de instalação



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LabData – FMT-HVD
Setembro - 2021



Instalando o R

Onde fazer o download do R?

- ❖ O link principal para acessar o R é o site:
<https://www.r-project.org/>
 - ❖ Nesse link você precisará escolher o “servidor” / mirror de onde será feito o download (Mais explicações nos próximos slides)
- ❖ Também pode acessado por: <https://cran.r-project.org/>
 - ❖ Esse link é mais simples para fazer o download
- ❖ Você também pode pesquisar por “R software” ou “R Statistic”, ou algum termo semelhante no Google, que o levará para um dos dois links acima

Acessando pelo R-Project

The screenshot shows the official website for The R Project for Statistical Computing. The page features a large logo on the left and a main content area on the right. The main content includes sections for 'Getting Started' and 'News'. Two brown arrows point from the text 'download R' in the 'Getting Started' section towards the 'CRAN mirror' link and the 'answers to frequently asked questions' link. A callout box on the right side contains the Portuguese text: 'Clique em um dos dois links, eles o levarão para mesma página para escolher de onde será feito o download.'

R: The R Project for Statistical Computing

[\[Home\]](#)

Download

[CRAN](#)

R Project

[About R](#)
[Logo](#)
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[Getting Help](#)

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[Manuals](#)

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 sending an email.

News

- [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](#).

News via Twitter

[News from the R Foundation](#)

Clique em um dos dois links, eles o levarão para mesma página para escolher de onde será feito o download.

R-Project: Escolhendo um servidor

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: [main page](#), [windows release](#), [windows old release](#).

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/>

Algeria
<https://cran.usthb.dz/>

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

Australia
<https://cran.csiro.au/>
<https://mirror.aarnet.edu.au/pub/CRAN/>
<https://cran.ms.unimelb.edu.au/>
<https://cran.curtin.edu.au/>

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

Belgium
<https://www.freestatistics.org/cran/>
<https://ftp.belnet.be/mirror/CRAN/>

Brazil
<https://nbcgib.uesc.br/mirrors/cran/>
<https://cran-r.c3sl.ufpr.br/>
<https://cran.fiocruz.br/>
<https://vps.fmvz.usp.br/CRAN/>
<https://briogeo.osalg.usp.br/CRAN/>

Você pode escolher qualquer um desses links, que “guardam” (hospedam) o R.

Automatic redirection to servers worldwide, currently sponsored by Rstudio

University of Science and Technology Houari Boumediene

Universidad Nacional de La Plata

CSIRO
AARNET
School of Mathematics and Statistics, University of Melbourne
Curtin University

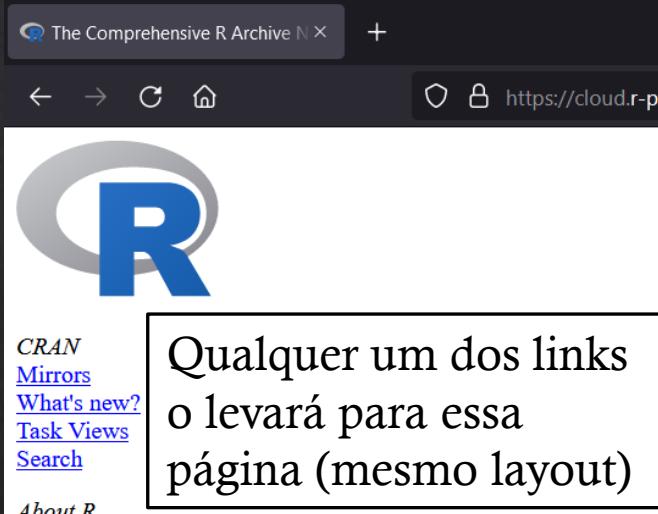
Wirtschaftsuniversität Wien

Patrick Wessa
Belnet, the Belgian research and education network

Computational Biology Center at Universidade Estadual de Santa Cruz
Universidade Federal do Paraná
Oswaldo Cruz Foundation, Rio de Janeiro
University of São Paulo, São Paulo
University of São Paulo, Piracicaba

0

Escolhendo o sistema operacional



The screenshot shows the CRAN download page at <https://cloud.r-project.org>. The page features the R logo and navigation links for CRAN Mirrors, What's new?, Task Views, Search, About R, R Homepage, and The R Journal. A large callout box highlights the text "Qualquer um dos links o levará para essa página (mesmo layout)".

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 (2021-08-10, Kick Things) [R-4.1.1.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 and bug fixes](#) before filing corresponding feature requests or bug reports.
- Source code of older versions of R is [available here](#).
- Contributed extension [packages](#)

Questions About R

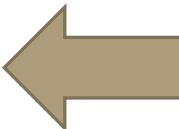
- If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

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: linear and nonlinear modelling, statistical tests, time series analysis, classification, clustering, etc. Please consult the [R project homepage](#) for further information.

CRAN is a network of ftp and web servers around the world that store identical, up-to-date, versions of code and documentation for R. Please use the CRAN [mirror](#) nearest to you to

Você deverá selecionar qual sistema operacional utiliza para fazer o download



Escolhendo o tipo do R (Para Windows)



The screenshot shows the "R for Windows" section of the CRAN website. On the left, there's a sidebar with links like "CRAN Mirrors", "What's new?", "Task Views", "Search", "About R", "R Homepage", and "The R Journal". Below that is a "Software" section with links for "R Sources", "R Binaries", "Packages", and "Other". Further down are "Documentation" links for "Manuals", "FAQs", and "Contributed". The main content area has a heading "Subdirectories:" followed by a list: [base](#), [contrib](#), [old contrib](#), and [Rtools](#). A large orange arrow points from the text "Existem diversos ‘tipos’ de R, mas para o usuário mais usual é necessário somente a versão ‘base’" to the [base](#) link. To the right of the list, there are descriptions for each category: "Binaries for base distribution. This is what you want to [install R for the first time](#).", "Binaries of contributed CRAN packages (for R >= 2.13.x; managed by Uwe Ligges). There is also information on [third party software](#) available for CRAN Windows services and corresponding environment and make variables.", "Binaries of contributed CRAN packages for outdated versions of R (for R < 2.13.x; managed by Uwe Ligges).", and "Tools to build R and R packages. This is what you want to build your own packages on Windows, or to build R itself.". At the bottom, there are instructions: "Please do not submit binaries to CRAN. Package developers might want to contact Uwe Ligges directly in case of questions / suggestions related to Windows binaries.", "You may also want to read the [R FAQ](#) and [R for Windows FAQ](#).", and a note: "Note: CRAN does some checks on these binaries for viruses, but cannot give guarantees. Use the normal precautions with downloaded executables."

Existem diversos “tipos” de R, mas para o usuário mais usual é necessário somente a versão “base”

Fazendo o download do R (Para Windows)

The screenshot shows a web browser window with the URL <https://cloud.r-project.org>. The page displays the download page for R-4.1.1 for Windows (32/64 bit). A large blue arrow points from the text "Essa é a opção mais recente do R para download" to the "Download R 4.1.1 for Windows" link. The page also includes links for "Installation and other instructions" and "New features in this version". Below the main content, there is a section titled "Frequently asked questions" with three bullet points: "Does R run under my version of Windows?", "How do I update packages in my previous version of R?", and "Should I run 32-bit or 64-bit R?". Further down, there is a note for webmasters about a stable link redirecting to the current Windows binary release.

The Comprehensive R Archive N × +

R-4.1.1 for Windows (32/64 bit)

Download R 4.1.1 for Windows (86 megabytes, 32/64 bit) ←

Installation and other instructions

New features in this version

Essa é a opção mais recente do R para download

If you want to double-check that the package you have downloaded matches the package distributed by CRAN, you can compare the [md5sum](#) of the .exe to the [fingerprint](#) on the master server. You will need a version of md5sum for windows: both [graphical](#) and [command line versions](#) are available.

Frequently asked questions

- [Does R run under my version of Windows?](#)
- [How do I update packages in my previous version of R?](#)
- [Should I run 32-bit or 64-bit R?](#)

Please see the [R FAQ](#) for general information about R and the [R Windows FAQ](#) for Windows-specific information.

Other builds

- Patches to this release are incorporated in the [r-patched snapshot build](#).
- A build of the development version (which will eventually become the next major release of R) is available in the [r-devel snapshot build](#).
- [Previous releases](#)

Note to webmasters: A stable link which will redirect to the current Windows binary release is
<<CRAN MIRROR>/bin/windows/base/release.html>.

Fazendo o download do R (Para MacOS)

The screenshot shows a web browser window with the title bar "The Comprehensive R Archive N X". The address bar contains the URL "https://cloud.r-project.org". The main content area displays the "R for macOS" page. On the left, there's a large R logo and a sidebar with links to CRAN Mirrors, What's new?, Task Views, Search, About R, R Homepage, and The R Journal. Below these are sections for Software (R Sources, R Binaries, Packages, Other) and Documentation (Manuals, FAQs, Contributed). A large orange arrow points upwards from the bottom of the page towards the "R-4.1.1.pkg" download link.

This directory contains binaries for a base distribution and packages to run on macOS. Releases for old Mac OS X systems (through Mac OS X 10.5) and PowerPC Macs can be found in the [old](#) directory.

Note: Although we take precautions when assembling binaries, please use the normal precautions with downloaded executables.

Package binaries for R versions older than 3.2.0 are only available from the [CRAN archive](#) so users of such versions should adjust the CRAN mirror setting (<https://cran-archive.r-project.org>) accordingly.

R 4.1.1 "Kick Things" released on 2021/08/10

Please check the SHA1 checksum of the downloaded image to ensure that it has not been tampered with or corrupted during the mirroring process. For example type `openssl sha1 R-4.1.1.pkg` in the *Terminal* application to print the SHA1 checksum for the R-4.1.1.pkg image. On Mac OS X 10.7 and later you can also validate the signature using `pkgutil --check-signature R-4.1.1.pkg`

Latest release:

R-4.1.1.pkg (notarized and signed)
SHA1-hash: d0eed7d0755bc80911acb616508d41e1396f810e
(ca. 86MB)

R 4.1.1 binary for macOS 10.13 (**High Sierra**) and higher, **Intel 64-bit** build, signed and notarized package.
Contains R 4.1.1 framework, R.app GUI 1.77 in 64-bit for Intel Macs, Tcl/Tk 8.6.6 X11 libraries and Texinfo 6.7. The latter two components are optional and can be omitted when choosing "custom install", they are only needed if you want to use the `tcltk` R package or build package documentation from sources.

Note: the use of X11 (including `tcltk`) requires [XQuartz](#) to be installed since it is no longer part of OS X. Always re-install XQuartz when upgrading your macOS to a new major version.

This release supports Intel Macs, but it is also known to work using Rosetta2 on M1-based Macs. For native Apple silicon arm64 binary see below.

Important: this release uses Xcode 12.4 and GNU Fortran 8.2. If you wish to compile R packages from sources, you may need to download GNU Fortran 8.2 - see the [tools](#) directory.

R-4.1.1-arm64.pkg (notarized and signed)
SHA1-hash: e58f4b78f9e4d347a12cc9160ee69d3d23e69f3b
(ca. 87MB)

R 4.1.1 binary for macOS 11 (**Big Sur**) and higher, **Apple silicon arm64** build, signed and notarized package.
Contains R 4.1.1 framework, R.app GUI 1.77 for Apple silicon Macs (M1 and higher), Tcl/Tk 8.6.11 X11 libraries and Texinfo 6.7.

Important: this version does NOT work on older Intel-based Macs.

Note: the use of X11 (including `tcltk`) requires [XQuartz](#). Always re-install XQuartz when upgrading your macOS

Download no Linux

The screenshot shows the CRAN (Comprehensive R Archive Network) website at <https://cloud.r-project.org>. The page is titled "The Comprehensive R Archive Network". On the left sidebar, there's a large R logo and links for "CRAN Mirrors", "What's new?", "Task Views", "Search", "About R", "R Homepage", and "The R Journal". Under "Software", links include "R Sources", "R Binaries", "Packages", and "Other". Under "Documentation", links include "Manuals", "FAQs", and "Contributed". The main content area has a section titled "Download and Install R" which says: "Precompiled binary distributions of the base system and contributed packages, Windows and Mac users most likely want one of these versions of R:" followed by a list of download links for Linux, macOS, and Windows. A large brown arrow points from the text "Para Linux você deve escolher qual distribuição" to this list. Below it, another box contains the text "Em cada distribuição haverá instruções e comandos a seguir". At the bottom, there's a section titled "Questions About R" with a link to frequently asked questions. A footer at the very bottom provides information about R and CRAN.

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 manager.

Source Code for all Platforms

Windows and Mac users most likely want to download the precompiled binaries listed above. These need to be compiled before you can use them. If you do not know what this means, you probably want to download the precompiled binaries listed above.

- The latest release (2021-08-10, Kick Things) [R-4.1.1.tar.gz](#), read [what's new](#) in the [NEWS file](#) for 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 and bug fixes](#) before filing 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 read our [answers to frequently asked questions](#) before you send an email.

What are R and CRAN?

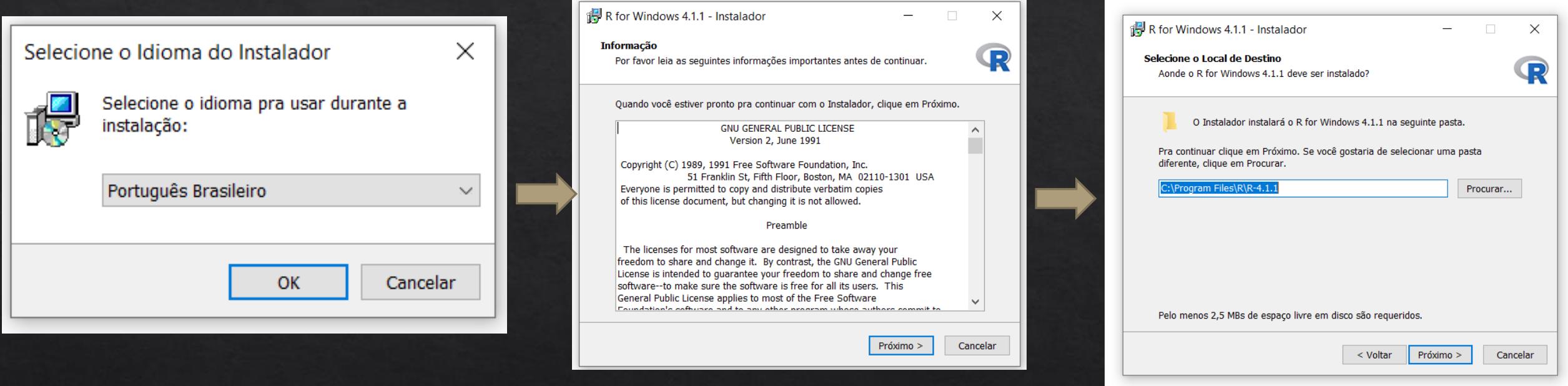
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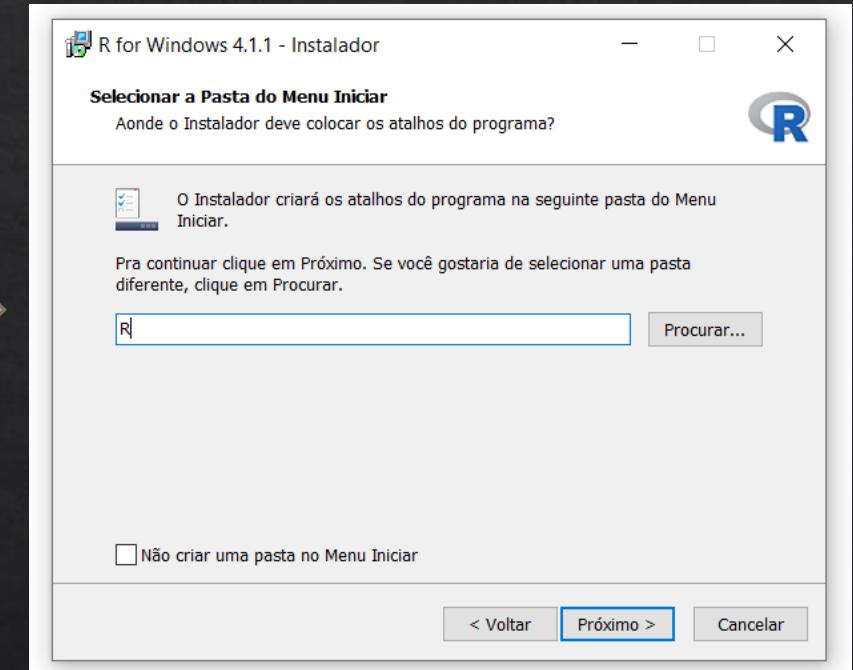
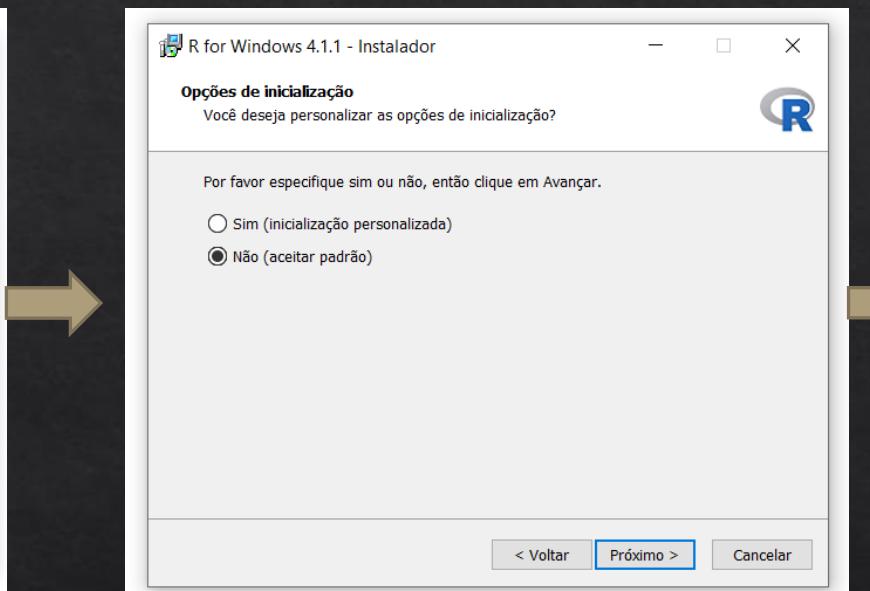
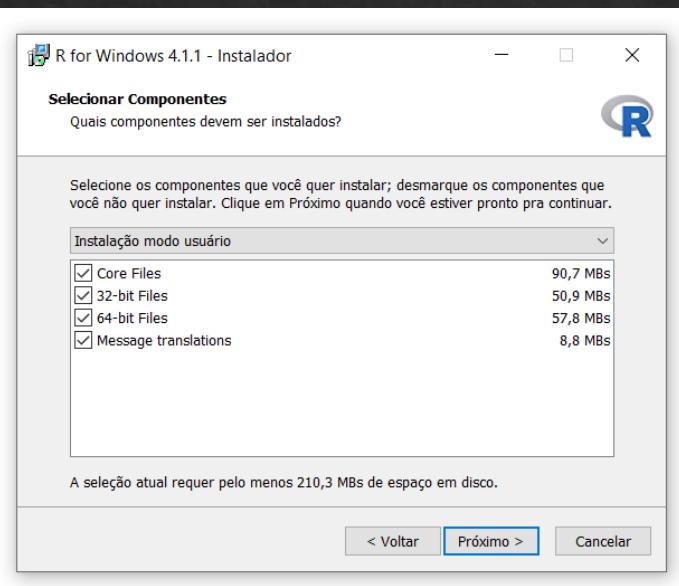
Para Linux você deve escolher qual distribuição

Em cada distribuição haverá instruções e comandos a seguir

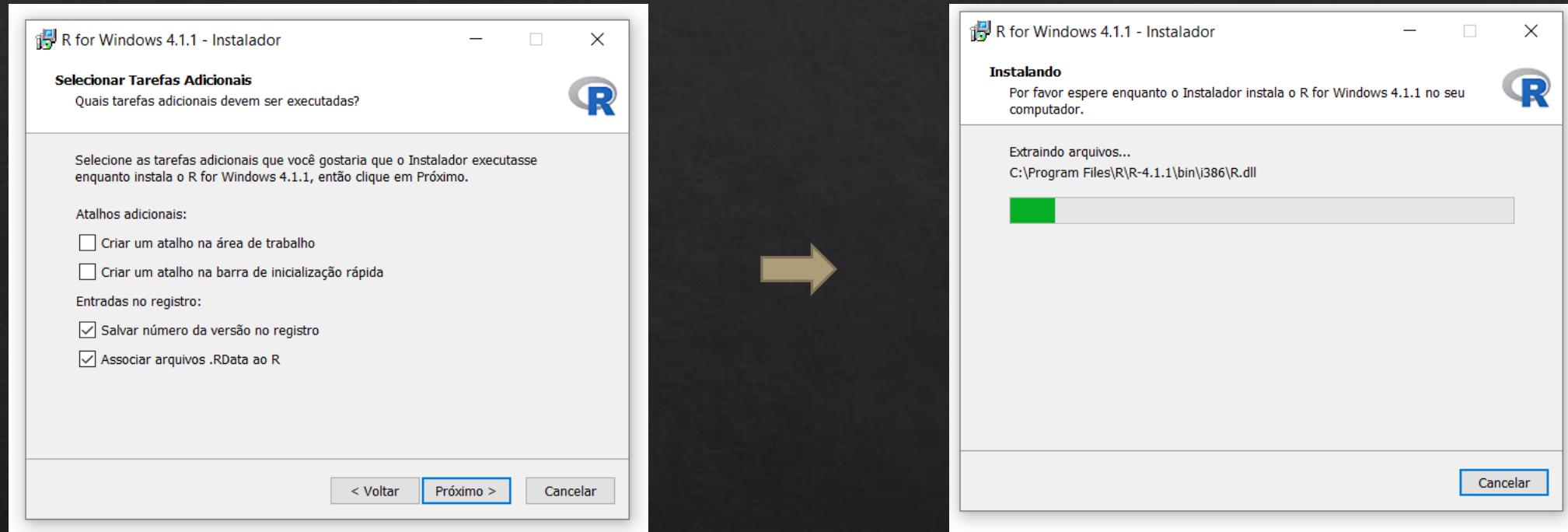
Passo a passo da instalação no Windows



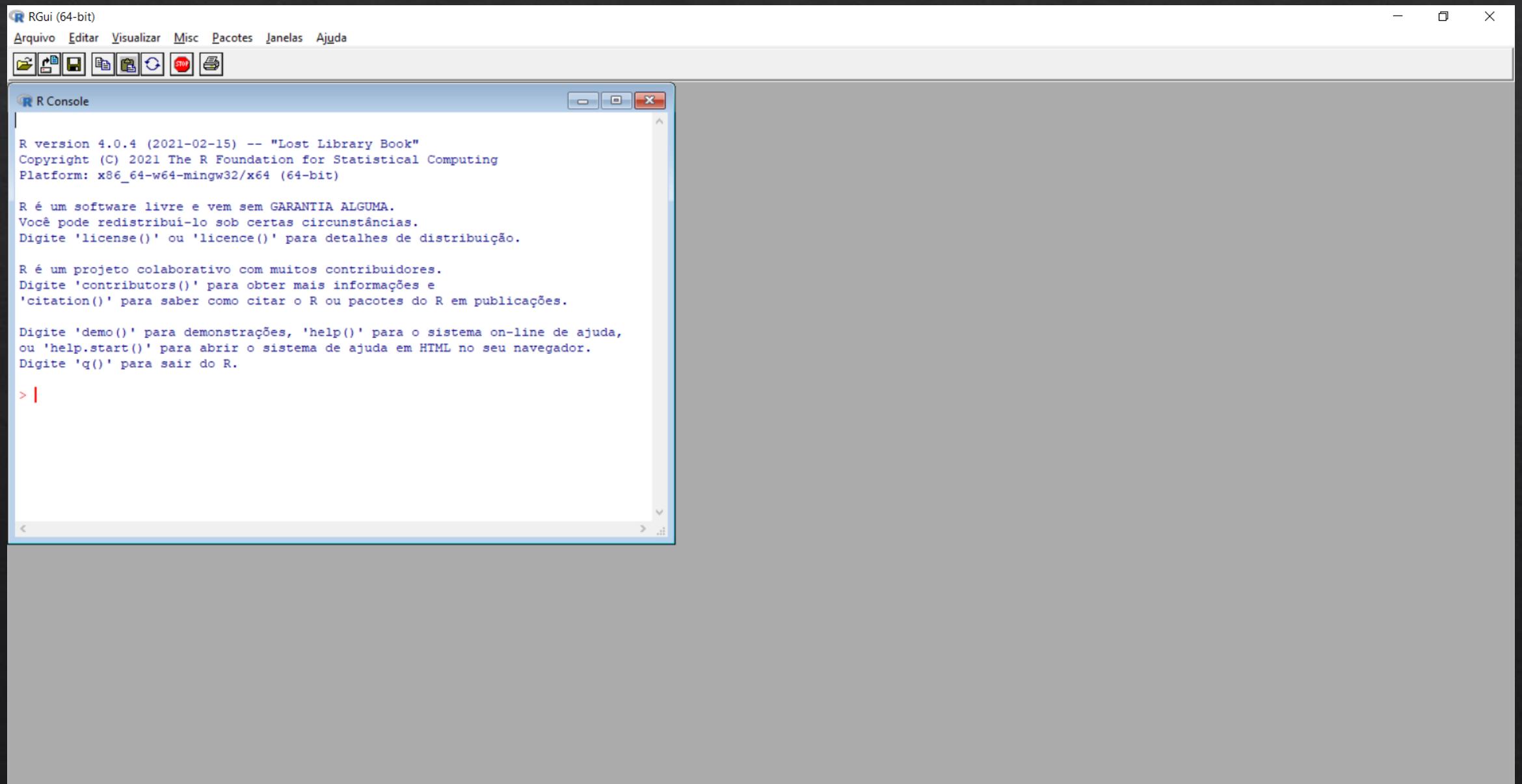
Passo a passo da instalação no Windows



Passo a passo da instalação no Windows



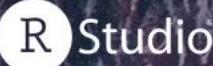
R Base - Exemplo



Instalando o RStudio

Por que usar RStudio?

- ❖ **O R base é pouco intuitivo, difícil de usar. Por conta disso, utilizamos outro software para auxiliar no manejo do R e facilitar as análises**
- ❖ **O software se chama Rstudio, e ele possui uma versão gratuita e outras pagas**



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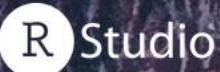
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OPEN SOURCE

Get started with R

RStudio

The premier IDE for R

RStudio Server

RStudio anywhere using a web browser

Shiny Server

Put Shiny applications online

R Packages

Shiny, R Markdown, Tidyverse and more

HOSTED SERVICES

Be our guest, be our guest

RStudio Cloud

Do, share, teach and learn data science

RStudio Public Package Manager

An easy way to access R packages

shinyapps.io

Let us host your Shiny applications

PROFESSIONAL

Enterprise-ready

RStudio Team

A single home for R & Python Data Science Teams

RStudio Workbench

Scale, develop, and collaborate across R & Python

RStudio Connect

Easily share your insights

RStudio Package Manager

Control and distribute packages



R RStudio - RStudio

https://www.rstudio.com/products/rstudio/

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RStudio

Take control of your R code

RStudio is an integrated development environment (IDE) for R. It includes a console, syntax-highlighting editor that supports direct code execution, as well as tools for plotting, history, debugging and workspace management.

RStudio is available in **open source** and **commercial** editions and runs on the desktop (Windows, Mac, and Linux) or in a browser connected to RStudio Server or RStudio Workbench (Debian/Ubuntu, Red Hat/CentOS, and SUSE Linux).

New in RStudio 1.4

Love what you code, from faster development with our Visual Markdown Editor, new Python capabilities, and a host of quality of life improvements, helping to bridge the gap between tools and teams.

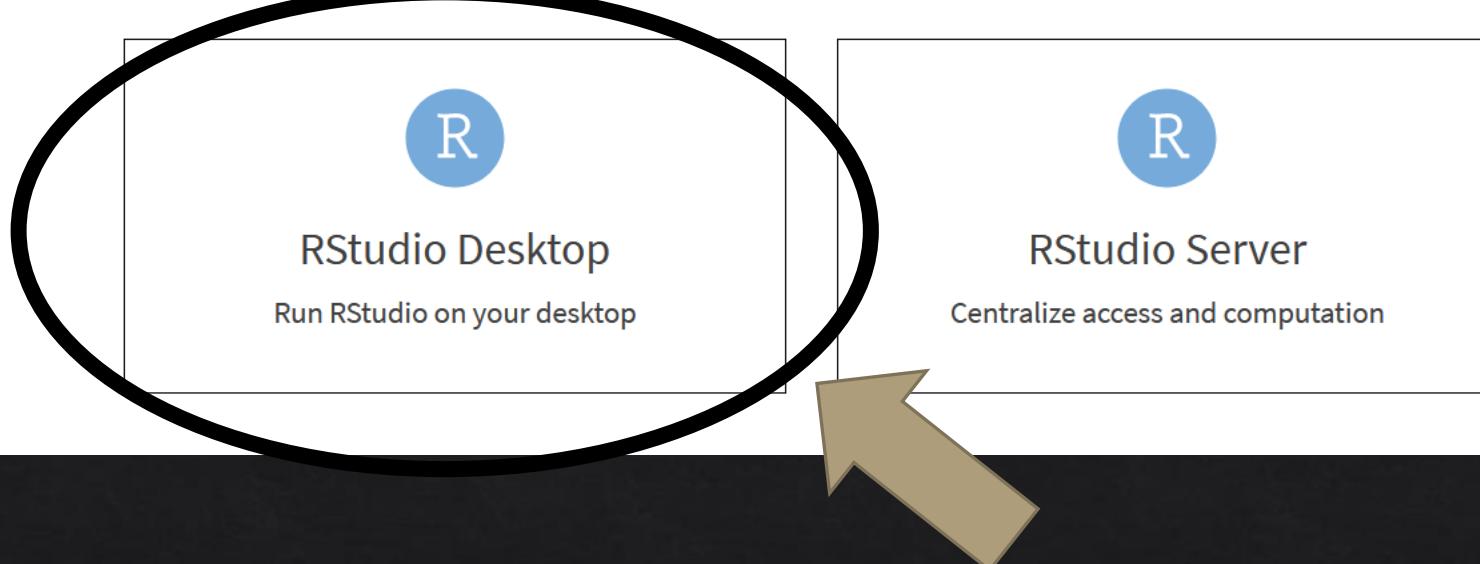


New in RStudio 1.4

Love what you code, from faster development with our Visual Markdown Editor, new Python capabilities, and a host of quality of life improvements, helping to bridge the gap between tools and teams.

[Read the Announcement](#)

There are two versions of RStudio:



R RStudio - RStudio

https://www.rstudio.com/products/rstudio/

Open Source Edition

Overview

- Access RStudio locally
- Syntax highlighting, code completion, and smart indentation
- Execute R code directly from the source editor
- Quickly jump to function definitions
- View content changes in real-time with the Visual Markdown Editor
- Easily manage multiple working directories using projects
- Integrated R help and documentation
- Interactive debugger to diagnose and fix errors
- Extensive package development tools

RStudio Desktop Pro

All of the features of open source; plus:

- A commercial license for organizations not able to use AGPL software
- Access to priority support
- [RStudio Professional Drivers](#)
- Connect directly to your RStudio Workbench instance remotely

Support	Community forums only	• Priority Email Support • 8 hour response during business hours (ET)
License	AGPL v3	RStudio License Agreement
Pricing	Free	\$995/year

[DOWNLOAD RSTUDIO DESKTOP](#)

[DOWNLOAD FREE RSTUDIO DESKTOP PRO TRIAL](#)

Purchase | Contact Sales

Windows Taskbar icons: File Explorer, Edge, File Manager, and a red circular icon.

System tray icons: Volume, Battery, Signal, and a small blue icon.

Bottom right corner: POR PTB2 16:50 28/09/2021

R Download the RStudio IDE - RS

https://www.rstudio.com/products/rstudio/download/#download

RStudio Desktop RStudio Desktop Pro RStudio Server RStudio Workbench

Open Source License Commercial License Open Source License Commercial License

Free **\$995** **Free** **\$4,975**

/year /year
(5 Named Users)

DOWNLOAD **BUY**
DOWNLOAD **BUY**

Integrated Tools for R	✓	✓	✓	✓
Priority Support		✓		✓
Access via Web Browser			✓	✓
RStudio Professional Drivers		✓		✓
Connect to RStudio Workbench remotely		✓		
Enterprise Security				✓

POR 16:53
PTB2 28/09/2021

RStudio Desktop 2021.09.0+351 [- Release Notes](#)

1. Install R. RStudio requires [R 3.0.1+](#).

2. Download RStudio Desktop. Recommended for your system:



DOWNLOAD RSTUDIO FOR WINDOWS
2021.09.0+351 | 156.88MB

Requires Windows 10 (64-bit)



O site detecta automaticamente qual sistema e versão você está utilizando

All Installers

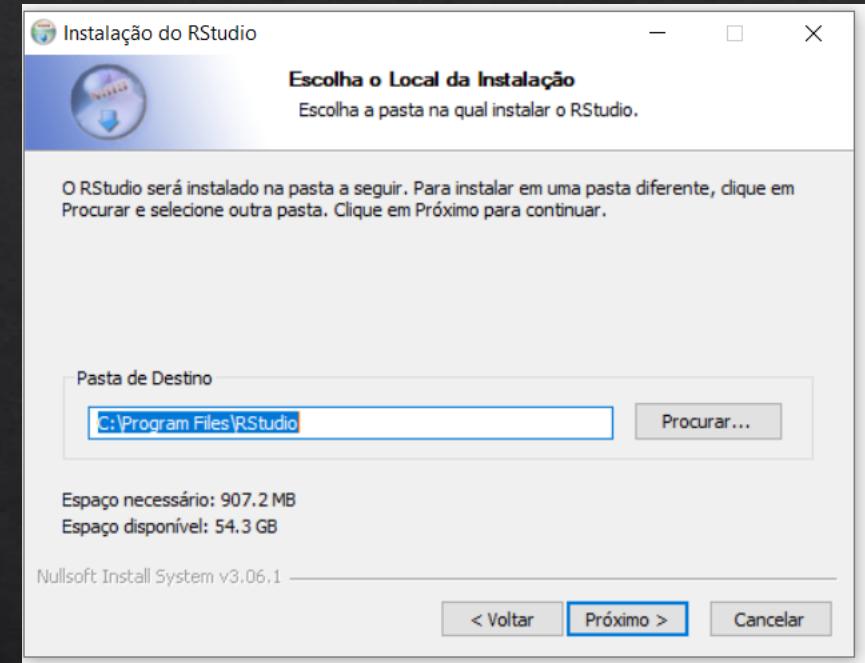
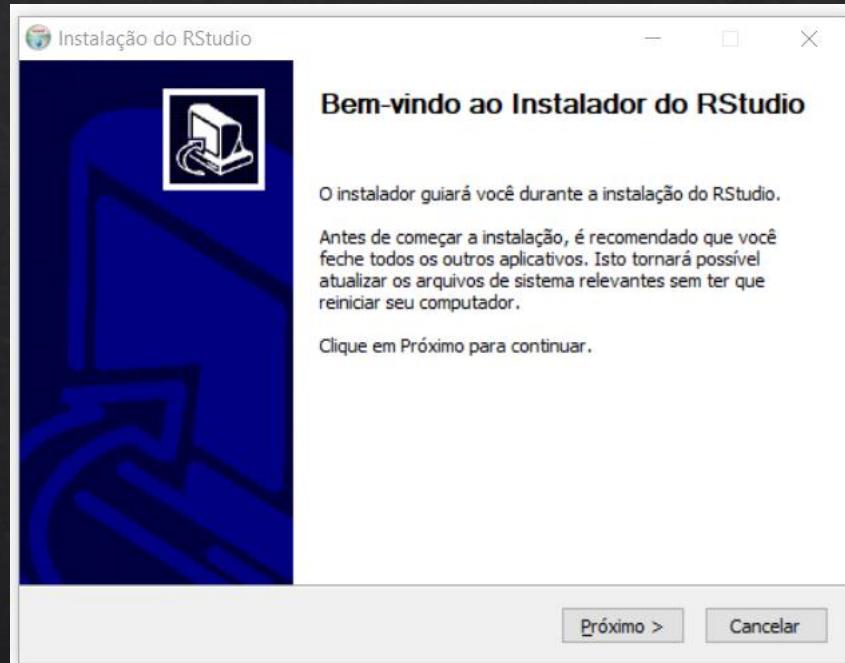
Porém, mais abaixo existe uma lista com todos os instaladores

Linux users may need to [import RStudio's public code-signing key](#) prior to installation, depending on the operating system's security policy.

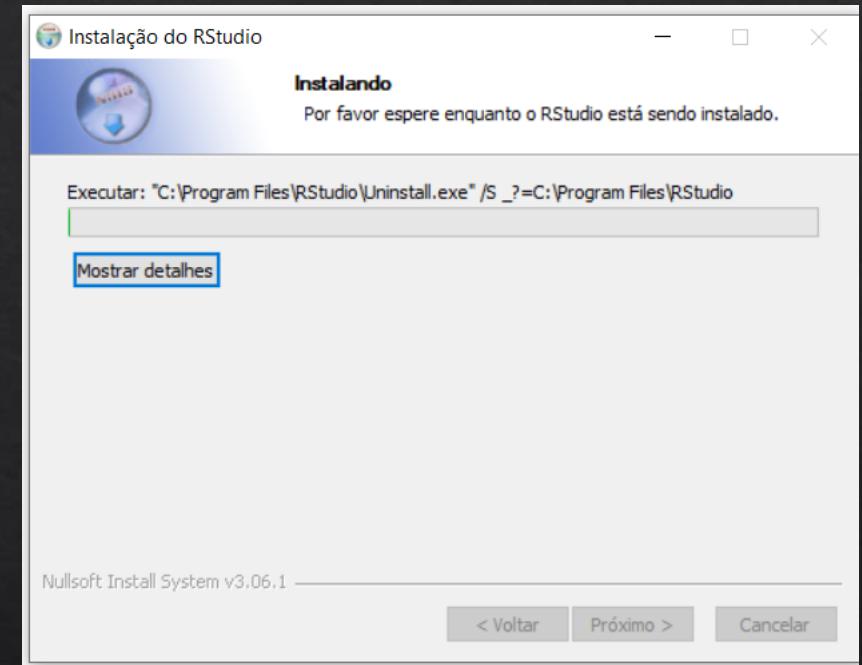
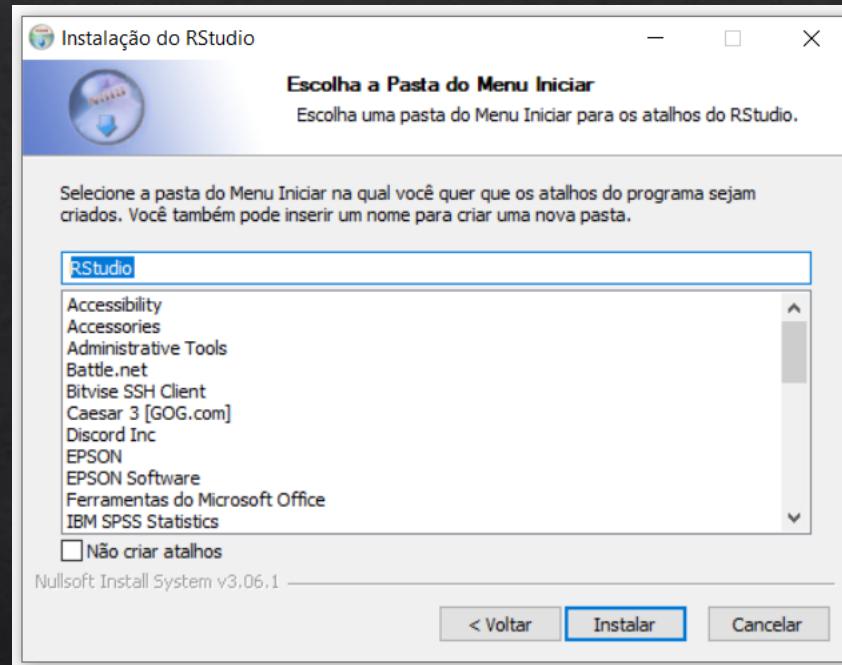
RStudio requires a 64-bit operating system. If you are on a 32 bit system, you can use an [older version of RStudio](#).

OS	Download	Size	SHA-256
Windows 10	 RStudio-2021.09.0+351.exe	156.88 MB	f698d4a2
macOS 10.14+	 RStudio-2021.09.0+351.dmg	196.28 MB	f8e97ced

Instalando o RStudio no Windows



Instalando o RStudio no Windows



Rstudio – Interface e principais comandos

Rstudio

R version 4.0.4 (2021-02-15) -- "Lost Library Book"
Copyright (C) 2021 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R é um software livre e vem sem GARANTIA ALGUMA.
Você pode redistribuí-lo sob certas circunstâncias.
Digite 'license()' ou 'licence()' para detalhes de distribuição.

R é um projeto colaborativo com muitos contribuidores.
Digite 'contributors()' para obter mais informações e
'citation()' para saber como citar o R ou pacotes do R em publicações.

Digite 'demo()' para demonstrações, 'help()' para o sistema on-line de ajuda,
ou 'help.start()' para abrir o sistema de ajuda em HTML no seu navegador.
Digite 'q()' para sair do R.

[Workspace loaded from ~/.RData]

> |

Environment is empty

User Library

Name	Description	Version	Action
abind	Combine Multidimensional Arrays	1.4-5	Install
askpass	Safe Password Entry for R, Git, and SSH	1.1	Install
assertthat	Easy Pre and Post Assertions	0.2.1	Install
backports	Reimplementations of Functions Introduced Since R-3.0.0	1.2.1	Install
base64enc	Tools for base64 encoding	0.1-3	Install
BH	Boost C++ Header Files	1.75.0-0	Install
bibliometrix	Comprehensive Science Mapping Analysis	3.1.1	Install
bibliometrixData	Bibliometrix Example Datasets	0.1.0	Install
bibtex	Bibtex Parser	0.4.2.3	Install
bitops	Bitwise Operations	1.0-6	Install
blob	A Simple S3 Class for Representing Vectors of Binary Data ('BLOBS')	1.2.1	Install
brew	Templating Framework for Report Generation	1.0-6	Install
brio	Basic R Input Output	1.1.1	Install
broom	Convert Statistical Objects into Tidy Tibbles	0.7.5	Install
bslib	Custom 'Bootstrap' 'Sass' Themes for 'shiny' and 'rmarkdown'	0.2.4	Install
cachem	Cache R Objects with Automatic Pruning	1.0.4	Install
callr	Call R from R	3.6.0	Install
car	Companion to Applied Regression	3.0-10	Install

Essa é a interface inicial, quando você inicia o RStudio pela primeira vez

R analisecovid - RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Untitled1 x Source on Save Run Up Down Source

1

Caso já tenha acessado outras vezes, é possível que ela esteja assim, com 4 janelas divididas.
Vou explicar cada uma delas

1:1 (Top Level) R Script

Console Terminal Jobs

R 4.0.4 · G:/Meu Drive/Estudos/LAP/2021/Estágio Supervisionado/analisecovid/

```
R version 4.0.4 (2021-02-15) -- "Lost Library Book"
Copyright (C) 2021 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

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'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
```

Blank workspace loaded from G:/Meu Drive/Estudos/LAP/2021/Estágio Supervisionado/analisecovid/RData

Environment History Connections Tutorial

Import Dataset 175 MiB

R Global Environment

Data

control_table2	List of 3
data	127 obs. of 251 variables
data_bruta	439 obs. of 248 variables
grafico_bai	List of 9
grafico_bdi	List of 9
grafico_estresse	List of 9
histograma_bai	List of 9
histograma_bdi	List of 9
profissao_ansiedade	List of 13

Files Plots Packages Help Viewer

New Folder Delete Rename More

G: Meu Drive Estudos LAP 2021 Estágio Supervisionado analisecovid

Name	Size	Modified
..	600.8 KB	Sep 25, 2021, 9:30 PM
.RData	15.8 KB	Sep 28, 2021, 5:22 PM
.Rhistory	218 B	Sep 28, 2021, 5:29 PM
0_analisecovid.Rproj	332 B	Sep 25, 2021, 7:23 PM
1_0_carregamentodebanco.R	4.5 KB	Sep 25, 2021, 9:29 PM
1_1_livrobdibai.R	32 KB	Sep 2, 2021, 5:14 PM
1_2_markdownlivro.docx	498 B	Aug 26, 2021, 9:19 AM
1_2_markdownlivro.Rmd	31 KB	Aug 26, 2021, 10:11 AM
1_2_markdownlivro3.docx	3.3 KB	Aug 25, 2021, 11:47 AM
2_regressoes_covid.R	4 KB	Aug 24, 2021, 11:01 AM
2_regressoes_markdown.Rmd	3.6 KB	Aug 24, 2021, 11:06 AM
3_equacao_estrutural.Rmd	1.4 KB	Aug 20, 2021, 2:31 PM
ansiedade_capitulo.png	5.3 KB	Sep 25, 2021, 7:58 PM
Bancos de dados anteriores	15.4 KB	Jun 25, 2021, 10:57 AM

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'citation()' para saber como citar o R ou pacotes do R em publicações.

Digite 'demo()' para demonstrações, 'help()' para o sistema on-line de ajuda,
ou 'help.start()' para abrir o sistema de ajuda em HTML no seu navegador.
Digite 'q()' para sair do R.

[Workspace loaded from ~/.RData]

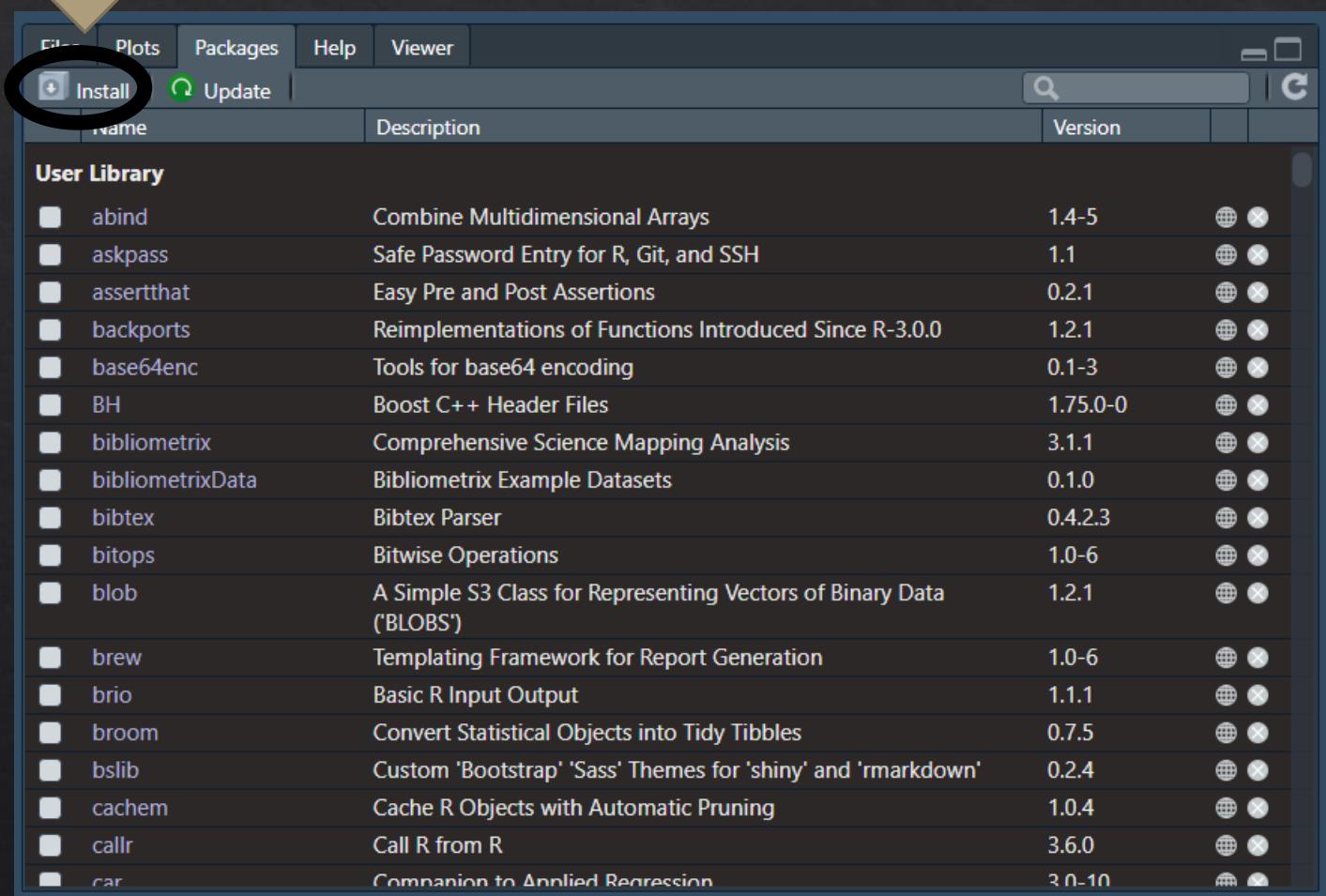
> |

Console

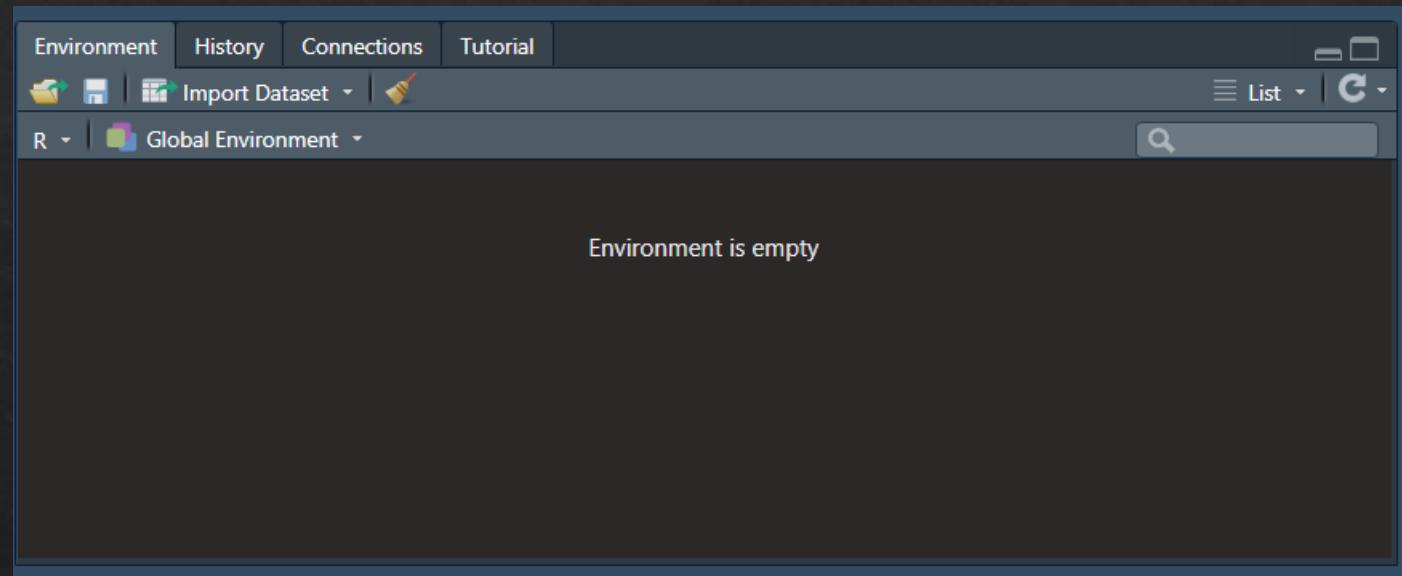
- ❖ **Onde os comandos são executados
(Mas existem outras formas)**
- ❖ **Onde os resultados (outputs)
aparecem**

Janela de pacotes ("Packages")

- ◊ **Mostra uma lista de pacotes já instalados**
- ◊ **É possível instalar pacotes a partir dessa janela, a parte do botão "Install"**



Ambiente



- ❖ **Mostra todos os objetos guardados na memória (Objetos, bancos de dados, funções)**

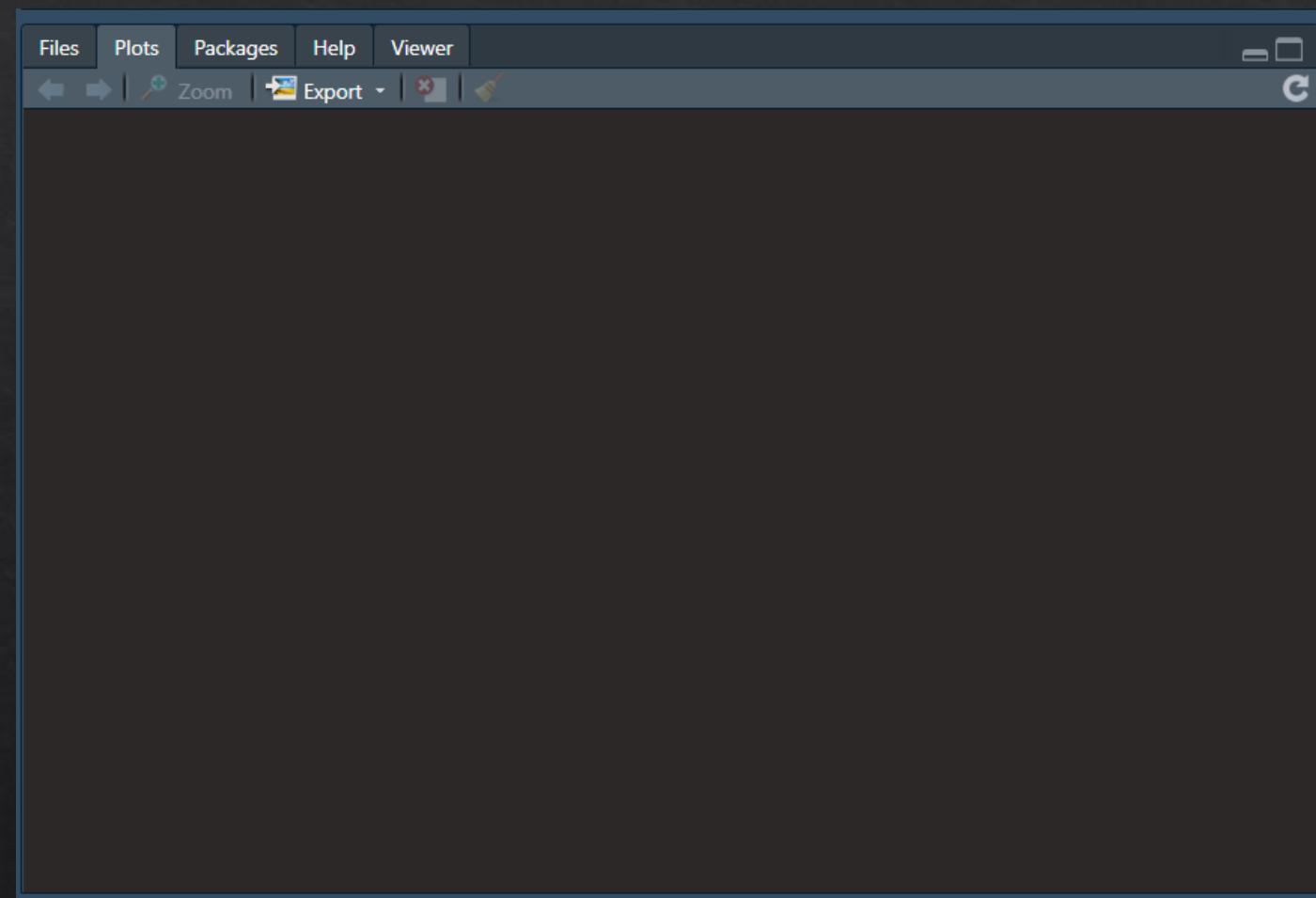
Arquivos

Name	Size	Modified
..		
.RData	600.8 KB	Sep 25, 2021, 9:30 PM
.Rhistory	15.8 KB	Sep 28, 2021, 5:22 PM
0_analise covid.Rproj	218 B	Sep 28, 2021, 5:29 PM
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5_analise_fatorial.Rmd	1.4 KB	Aug 20, 2021, 2:31 PM
ansiedade_capitulo.png	5.3 KB	Sep 25, 2021, 7:58 PM
Bancos de dados anteriores		
	15.4 KB	Jun 25, 2021, 10:57 AM

Arquivos

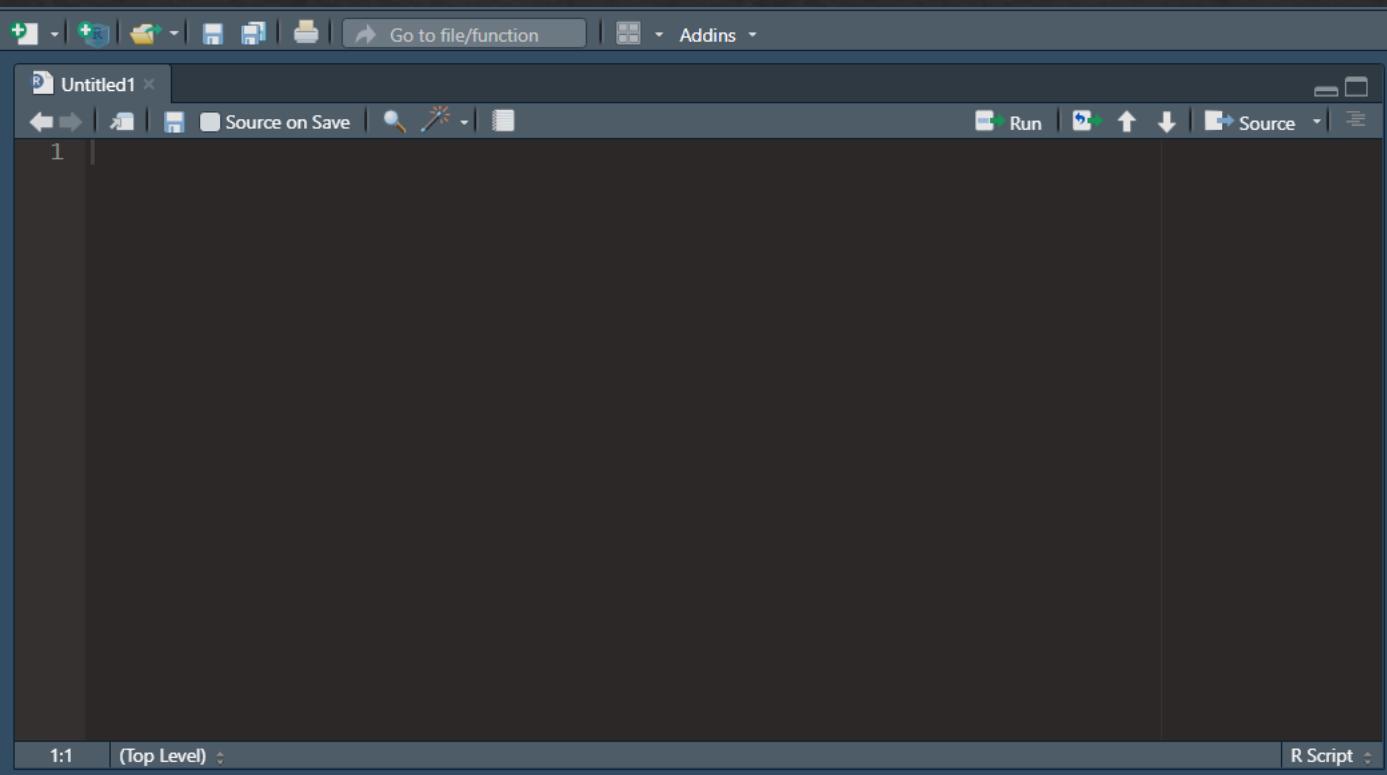
- ◆ **Essa aba é muito importante para quando você trabalha com vários projetos**
- ◆ **Ele mostra qual o local onde o projeto de encontra atualmente, junto dos outros arquivos que se encontram no mesmo diretório**
- ◆ **É importante para quem precisa fazer o upload ou download de algo, e precisa especificar o caminho no comando**

Gráficos



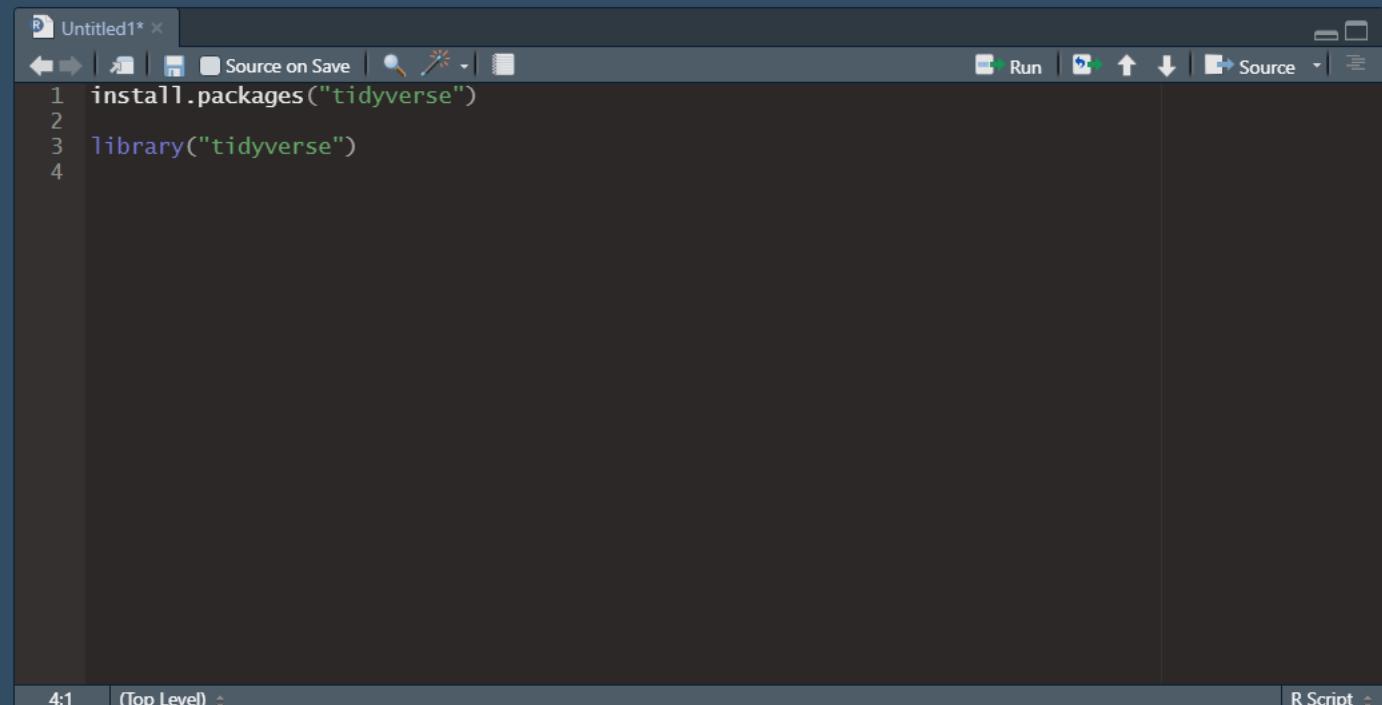
- ❖ **Aba onde fica o histórico de gráficos**
- ❖ **É possível dar zoom e salvar, assim como excluir o gráfico atual ou limpar todos**

Scripts



- ❖ **Essa aba aparece somente quando você cria ou abre um novo script**
- ❖ **Scripts são importantes para salvar seus comandos**
- ❖ **Tudo no R funciona a partir de comandos**

Exemplo de comando – Instalação de pacotes



A screenshot of the RStudio interface showing an R script named "Untitled1". The script contains the following code:

```
install.packages("tidyverse")
library("tidyverse")
```

The RStudio toolbar at the top includes "Run", "Source", and other standard development tools. The status bar at the bottom shows "4:1" and "(Top Level)".

- ◊ **Essa é outra forma de instalar pacotes, através de comandos**
- ◊ **Além de instalar, o segundo comando é para carregar/fazer uso do pacote no projeto atual**
- ◊ **Tidyverse é um conjunto de pacotes muito utilizado em todas as áreas**



Obrigado pela atenção

Esperamos que o R contribua para seus estudos e suas análises

Gabriel dos Santos Mouta

Vanderson de Souza Sampaio