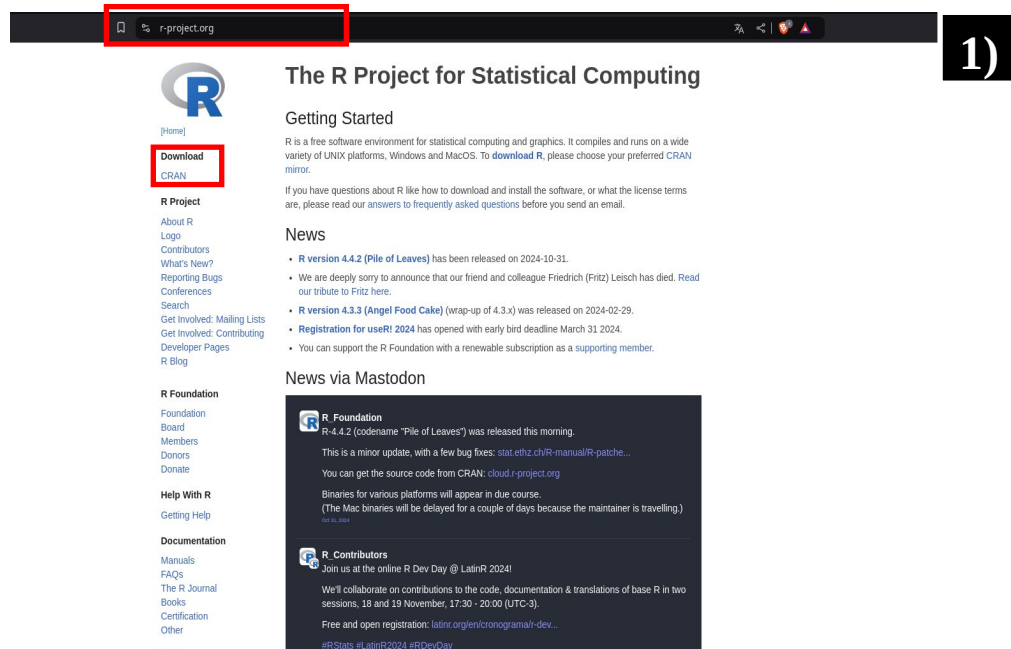




Tutorial de instalação do R e do RStudio

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Machado

INSTALAÇÃO DO R



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.

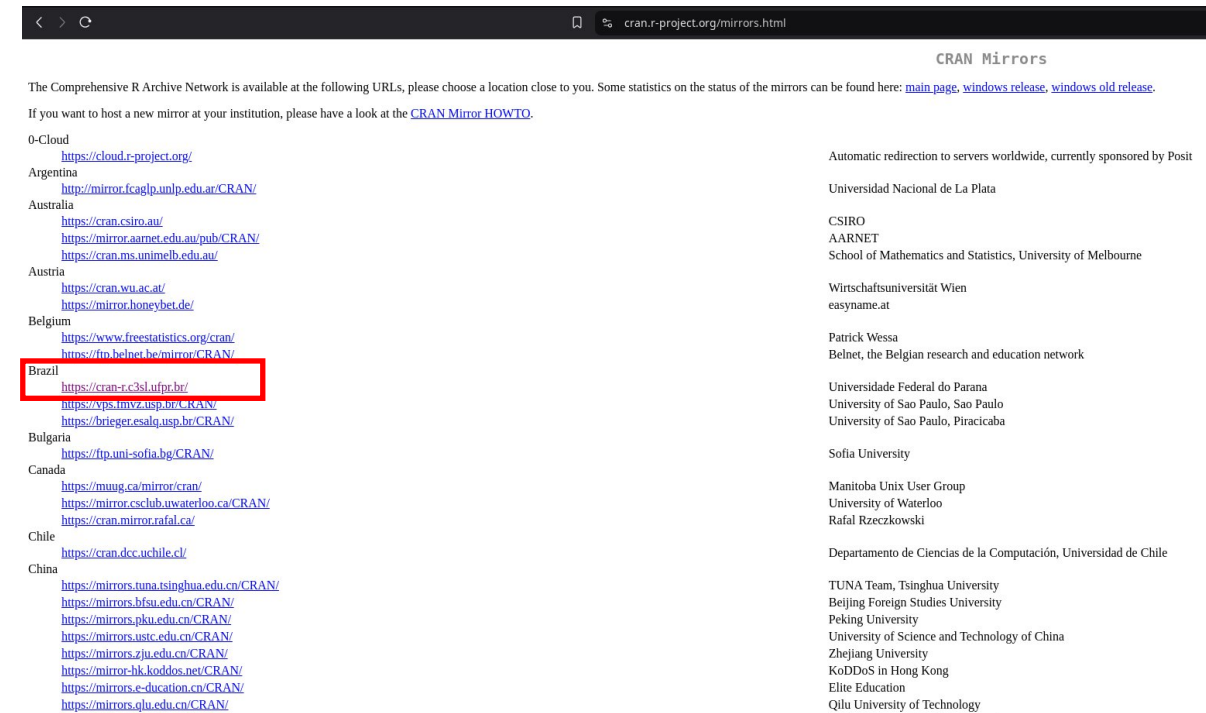
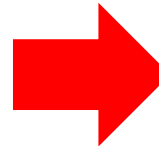
News

- **R version 4.4.2 (Pile of Leaves)** has been released on 2024-10-31.
- We are deeply sorry to announce that our friend and colleague Friedrich (Fritz) Leisch has died. [Read our tribute to Fritz](#) here.
- **R version 4.3.3 (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.

News via Mastodon

R Foundation
R 4.4.2 (codename "Pile of Leaves") was released this morning.
This is a minor update, with a few bug fixes: [stat.ethz.ch/R-manual/R-patche...](#)
You can get the source code from CRAN: [cloud.r-project.org](#)
Binaries for various platforms will appear in due course.
(The Mac binaries will be delayed for a couple of days because the maintainer is travelling.)
Oct 31, 2024

R Contributors
Join us at the online R Dev Day @ LatAmR 2024!
We'll collaborate on contributions to the code, documentation & translations of base R in two sessions, 18 and 19 November, 17:30 - 20:00 (UTC-3).
Free and open registration: [latam.r.org/en/cronograma/lat-dev...](#)
#RDevDay #LatAmR2024 #RDevDay



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: [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/>

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/>

Austria
<https://cran.wu.ac.at/>
<https://mirror.honeybet.de/>

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

Brazil
<https://cran-r.c3sl.ufpr.br/>
<https://vps.tmvz.usp.br/CRAN/>
<https://brieger.esalq.usp.br/CRAN/>

Bulgaria
<https://ftp.uni-sofia.bg/CRAN/>

Canada
<https://muug.ca/mirror/cran/>
<https://mirror.csclub.uwaterloo.ca/CRAN/>
<https://cran.mirror.rafael.ca/>

Chile
<https://cran.dcc.uchile.cl/>

China
<https://mirrors.tuna.tsinghua.edu.cn/CRAN/>
<https://mirrors.bfsu.edu.cn/CRAN/>
<https://mirrors.pku.edu.cn/CRAN/>
<https://mirrors.ustc.edu.cn/CRAN/>
<https://mirrors.zju.edu.cn/CRAN/>
<https://mirror-hk.koddos.net/CRAN/>
<https://mirrors.e-ducation.cn/CRAN/>
<https://mirrors.glu.edu.cn/CRAN/>

Automatic redirection to servers worldwide, currently sponsored by Posit

Universidad Nacional de La Plata

CSIRO
AARNET
School of Mathematics and Statistics, University of Melbourne

Wirtschaftsuniversität Wien
easyname.at

Patrick Wessa
Belnet, the Belgian research and education network

Universidade Federal do Parana
University of Sao Paulo, Sao Paulo
University of Sao Paulo, Piracicaba

Sofia University

Manitoba Unix User Group
University of Waterloo
Rafal Rzeckowski

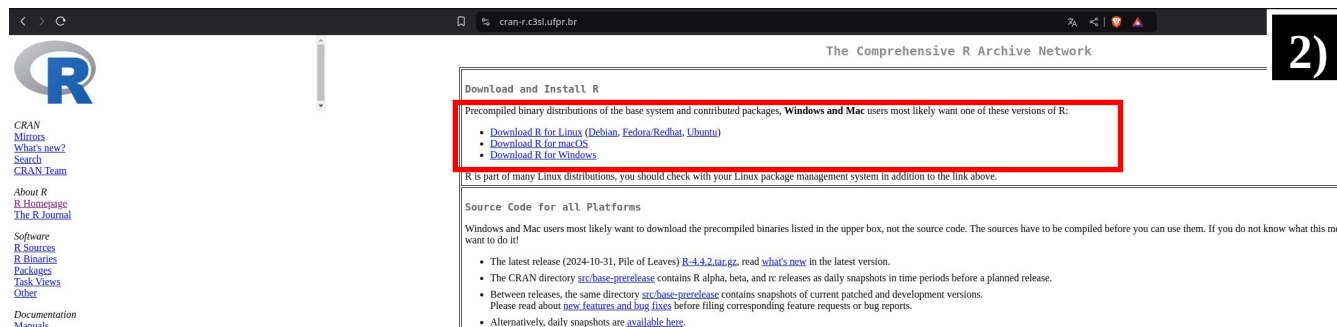
Departamento de Ciencias de la Computación, Universidad de Chile

TUNA Team, Tsinghua University
Beijing Foreign Studies University
Peking University
University of Science and Technology of China
Zhejiang University
KoDDoS in Hong Kong
Elite Education
Qilu University of Technology

Acesse o projeto R: <https://www.r-project.org/>.

1 - Clique em Download > Selecione um repositório, preferencialmente o brasileiro.

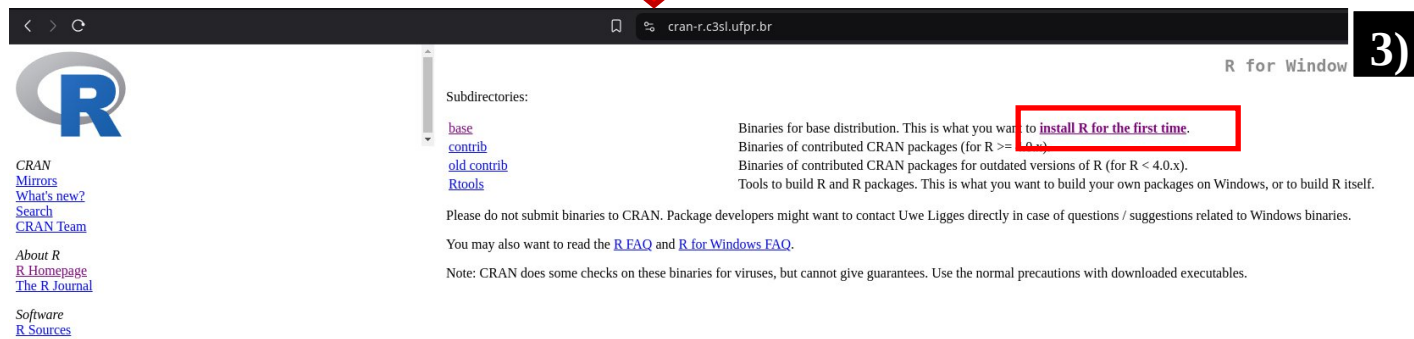
INSTALAÇÃO DO R



2)

2 – Selecione o seu sistema operacional dentre windows, mac e linux.

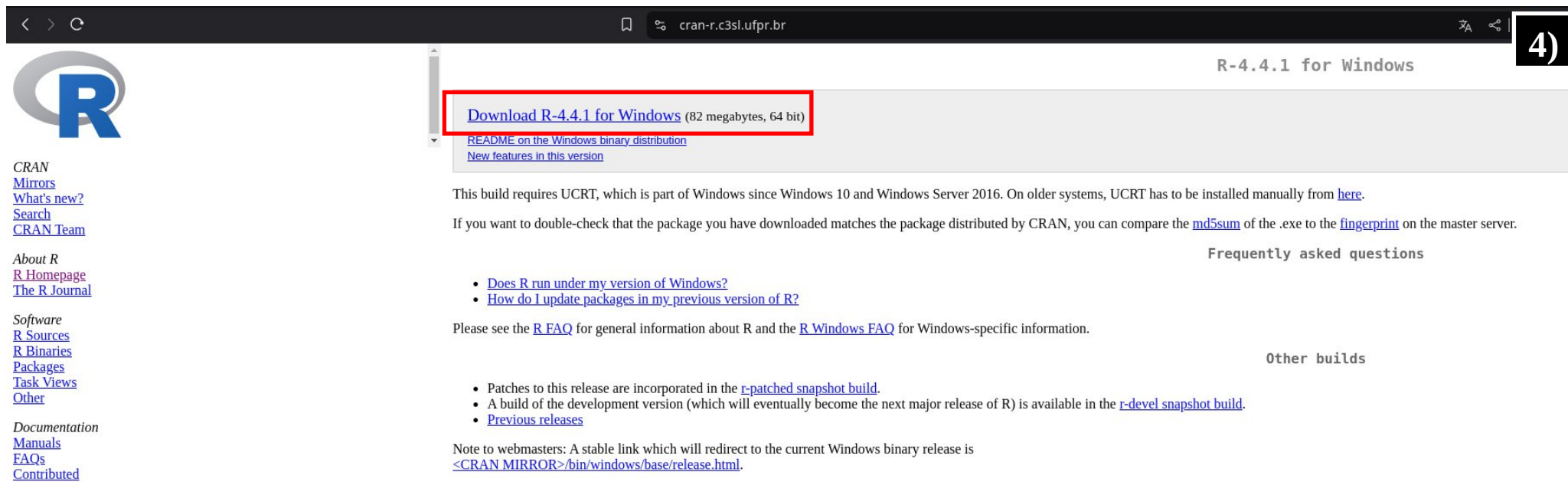
3 - Clique em "install R for the first time".



3)

INSTALAÇÃO DO R

4 – Clique em Download R-4.4.1 for Windows (se você estiver usando Windows).



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[Manuals](#)
[FAQs](#)
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R-4.4.1 for Windows

[Download R-4.4.1 for Windows](#) (82 megabytes, 64 bit)

[README on the Windows binary distribution](#)
[New features in this version](#)

This build requires UCRT, which is part of Windows since Windows 10 and Windows Server 2016. On older systems, UCRT has to be installed manually from [here](#).

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.

Frequently asked questions

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

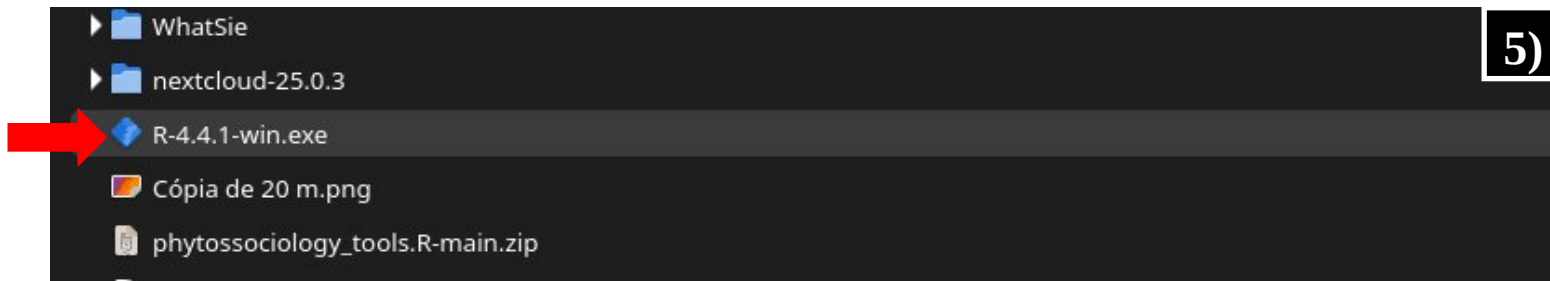
Please see the [R FAQ](#) for general information about R and the [R Windows FAQ](#) for Windows-specific information.

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](#).

INSTALAÇÃO DO R

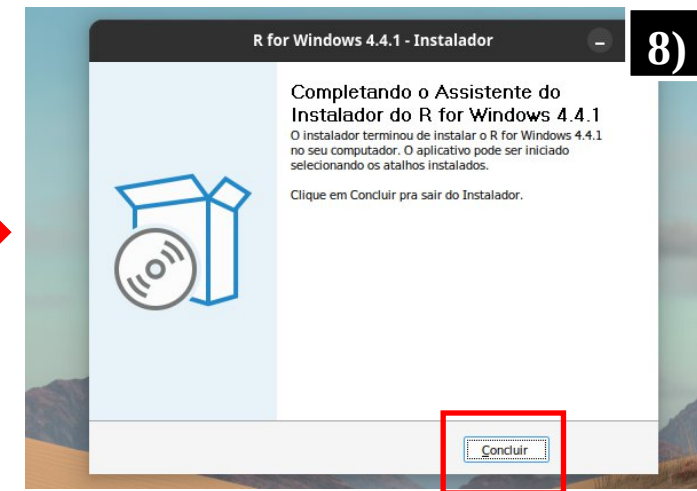
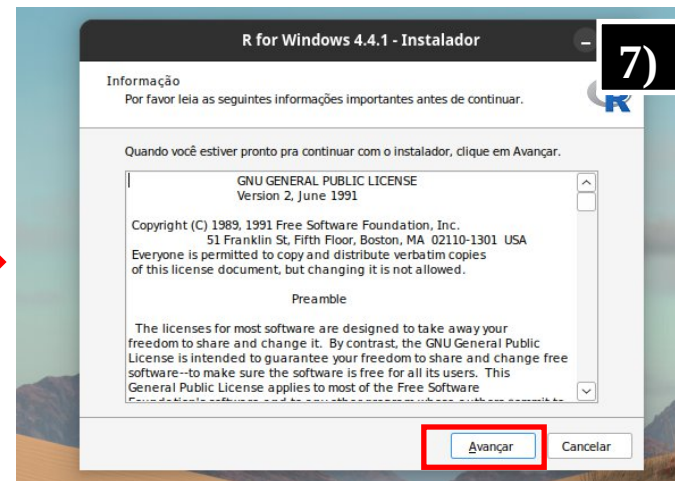
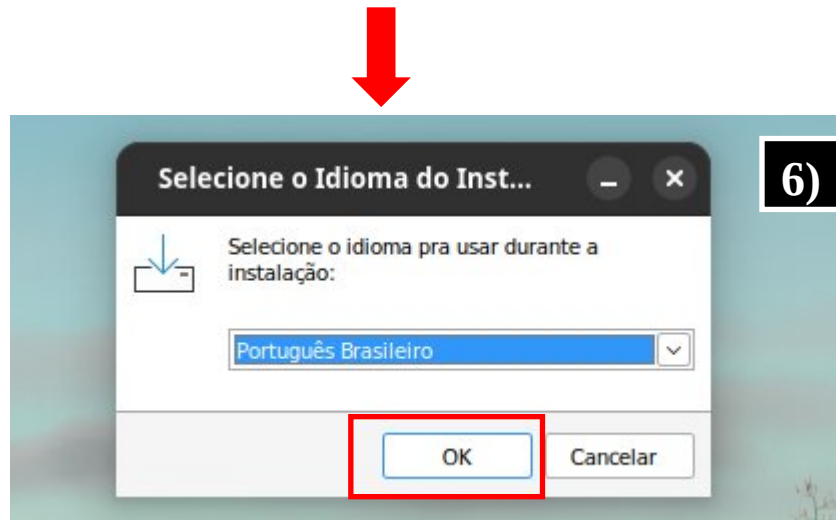


5 – Encontre a pasta em que o software foi armazenado e execute o **R-4.4.1-win.exe** com dois cliques. Em meu caso o arquivo foi armazenado na pasta **Downloads**.

6 – Selecione a linguagem;

7 – Clique em avançar até iniciar a instalação;

8 – Clique em concluir para finalizar a instalação.



INSTALAÇÃO DO RSTUDIO

posit PRODUCTS SOLUTIONS LEARN & SUPPORT EXPLORE MORE PRICING

1 - 3)

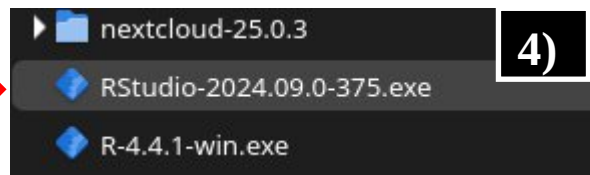
OS	Download	Size	SHA-256
Windows 10/11	RSTUDIO-2024.09.0-375.EXE	265.55 MB	513216FE
macOS 12+	RSTUDIO-2024.09.0-375.DMG	621.00 MB	54D722FD
Ubuntu 20/Debian 11	RSTUDIO-2024.09.0-375-AMD64.DEB	203.93 MB	DB096050
Ubuntu 22/Debian 12	RSTUDIO-2024.09.0-375-AMD64.DEB	203.92 MB	111C64DB
Ubuntu 24	RSTUDIO-2024.09.0-375-AMD64.DEB	203.92 MB	111C64DB
OpenSUSE 15	RSTUDIO-2024.09.0-375-X86_64.RPM	204.31 MB	A761A6CB
Fedora 34/Red Hat 8	RSTUDIO-2024.09.0-375-X86_64.RPM	227.82 MB	F0955C47

1- Acesse: <https://posit.co/download/rstudio-desktop/>;

2 – Role a página até achar o local de download;

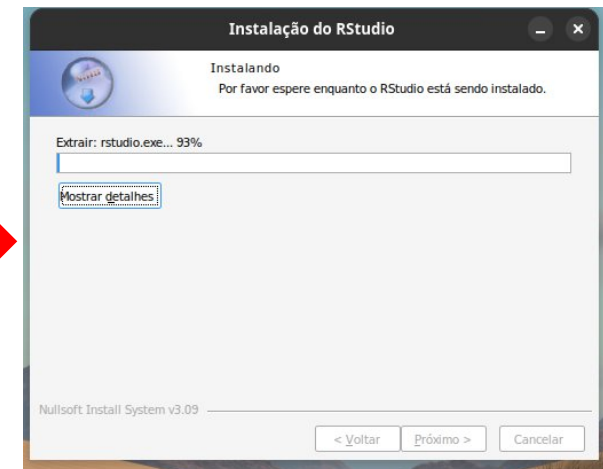
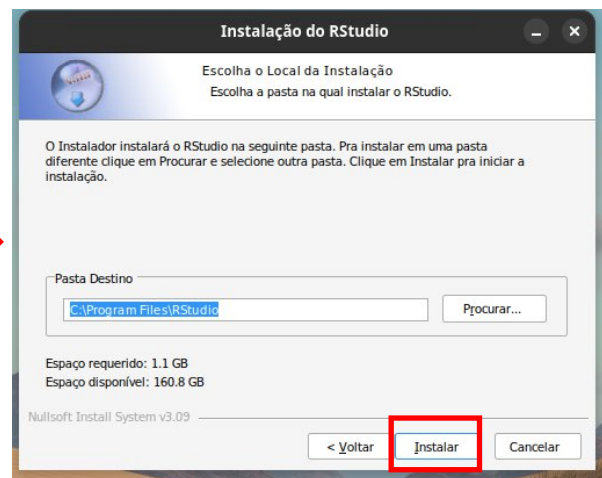
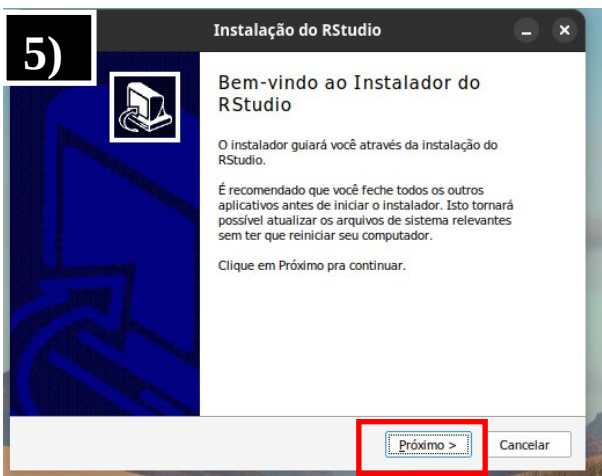
3 – Selecione a versão do RStudio para baixar, por exemplo, se você estiver no Windows clique em **RStudio-2024.09.0-375.exe** para baixar o *software*. Para MacOs clique em **RStudio-2024.09.0-375.DMG**.

INSTALAÇÃO DO RSTUDIO



4 – Encontre a pasta em que o software foi armazenado e execute o arquivo **.exe** com dois cliques. Em meu caso, novamente, o arquivo foi armazenado na pasta **Downloads**.

5 – Clique em próximo e avance até completar a instalação, conforme as imagens abaixo.



INSTALANDO PACOTES

1- Abra o RStudio;

2 – Clique no ícone em formato de papel e crie um novo script ou pressione CTRL+SHIFT+N.

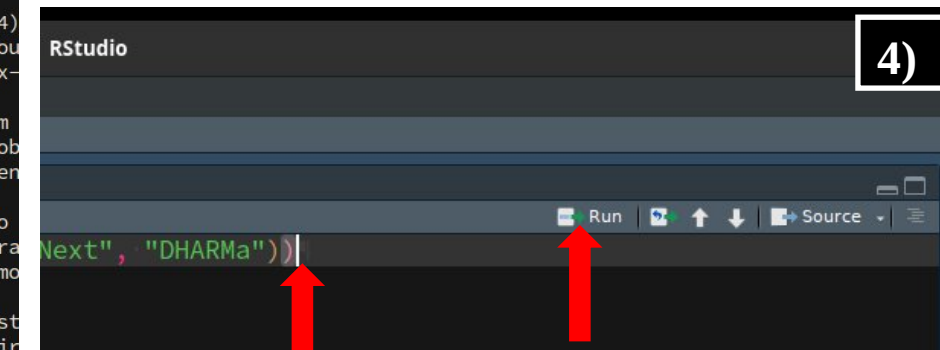
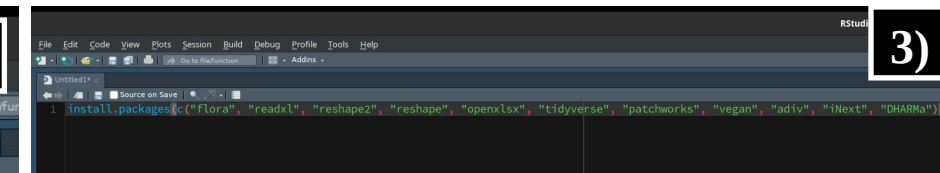
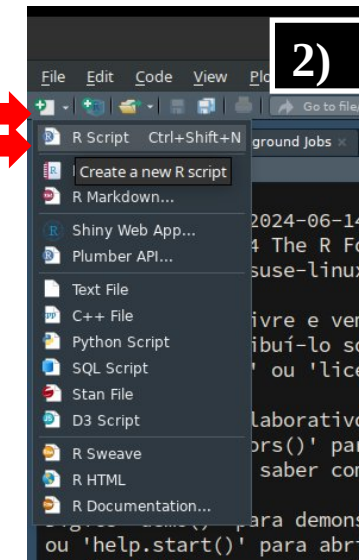
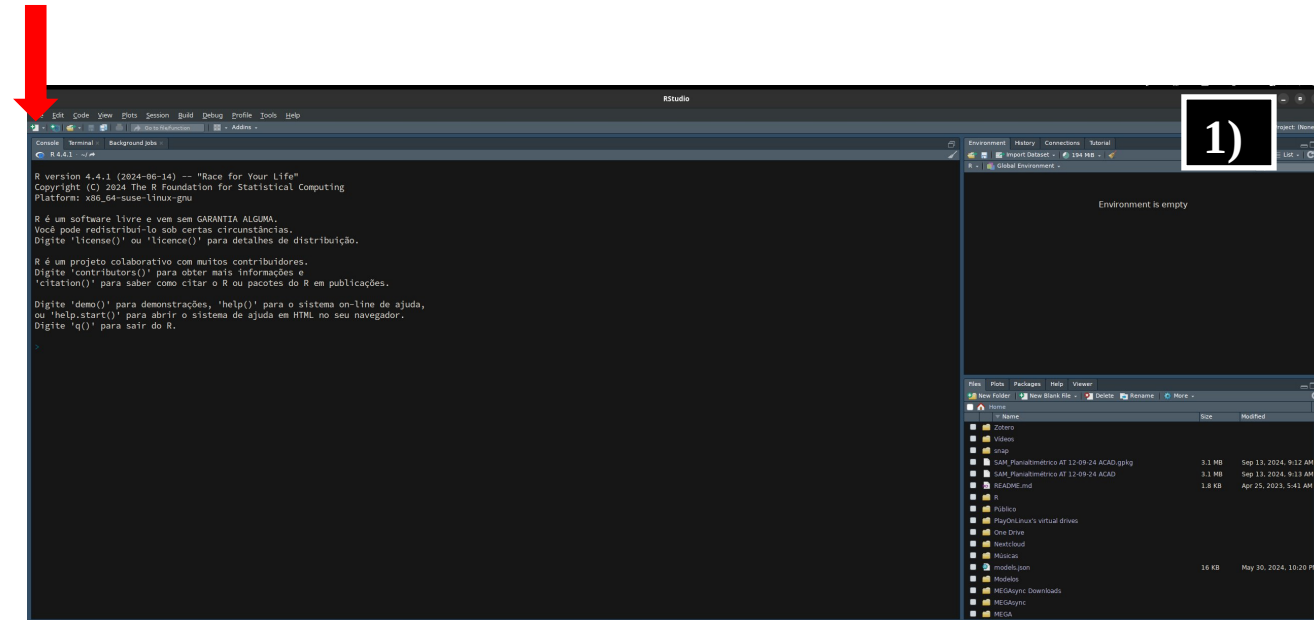
3 - Copie e cole o seguinte comando no script aberto:

```
install.packages(c("flora", "readxl", "reshape2", "reshape", "openxlsx",  
"tidyverse", "patchworks", "vegan", "adiv", "iNext", "DHARMA"))
```

4 – Posicione o cursor do mouse no fim do comando, clique e pressione CTRL+ENTER para executar o comando. Ou pressione o ícone (RUN) apresentado na imagem.

5 – Aguarde a finalização do processo

Esse comando instala os pacotes necessários para execução das análises que realizaremos durante o minicurso.

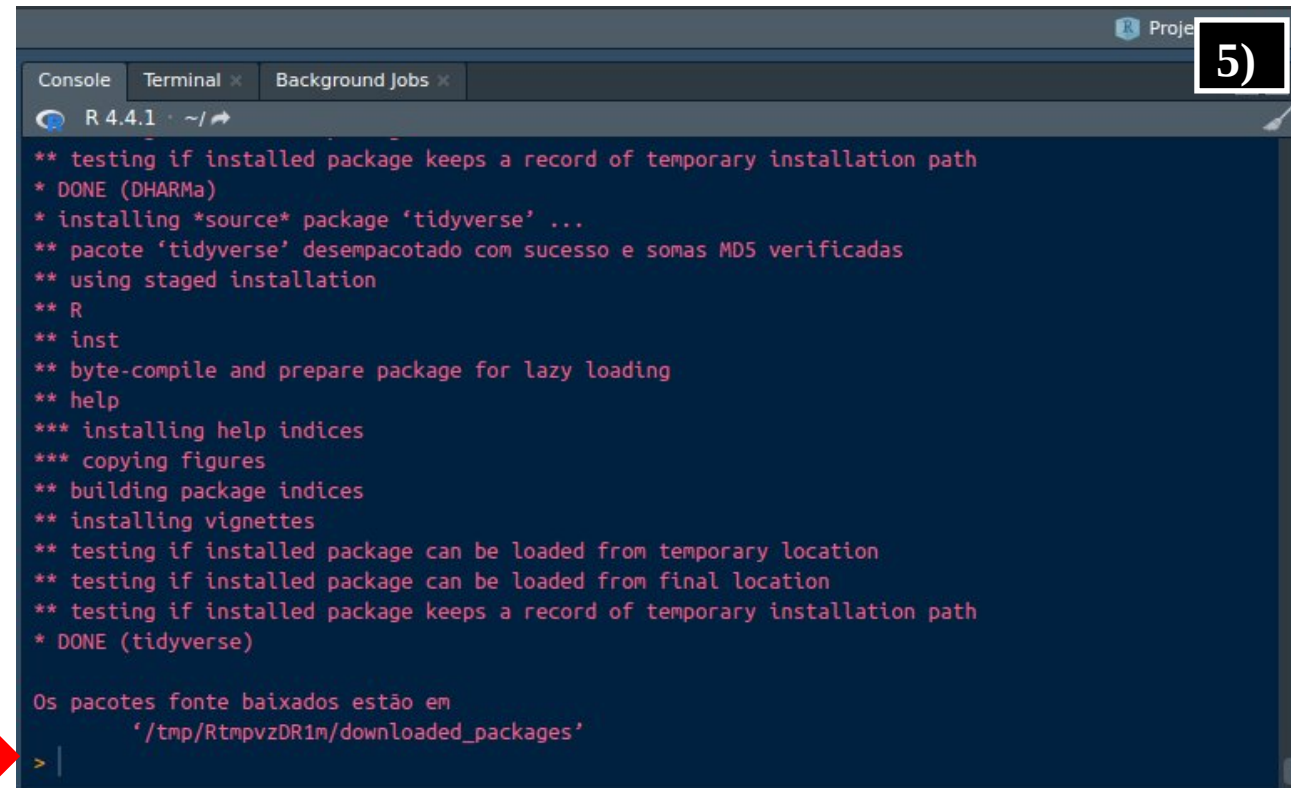


INSTALANDO PACOTES

5 – Aguarde a finalização do processo de instalação.

Você saberá que o processo finalizou olhando quando a aba console (parte inferior esquerda) retornar ">" e permanecer estática.

Esse comando instala os pacotes necessários para execução das análises que realizaremos durante o minicurso.



```
R 4.4.1 ~/  
** testing if installed package keeps a record of temporary installation path  
* DONE (DHARMA)  
* installing *source* package 'tidyverse' ...  
** pacote 'tidyverse' desempacotado com sucesso e somas MD5 verificadas  
** using staged installation  
** R  
** inst  
** byte-compile and prepare package for lazy loading  
** help  
*** installing help indices  
*** copying figures  
** building package indices  
** installing vignettes  
** testing if installed package can be loaded from temporary location  
** testing if installed package can be loaded from final location  
** testing if installed package keeps a record of temporary installation path  
* DONE (tidyverse)  
  
Os pacotes fonte baixados estão em  
  '/tmp/RtmpvzDR1n/downloaded_packages'  
> |
```

FICOU COM DÚVIDAS SOBRE O PROCESSO DE INSTALAÇÃO?

Utilize esse tutorial para realizar o mesmo procedimento:
<https://www.youtube.com/watch?v=PgTGLHAGdIE>

