



Manual de instalação do



Minicurso: Noções básicas de linguagem R aplicados à biologia aquática

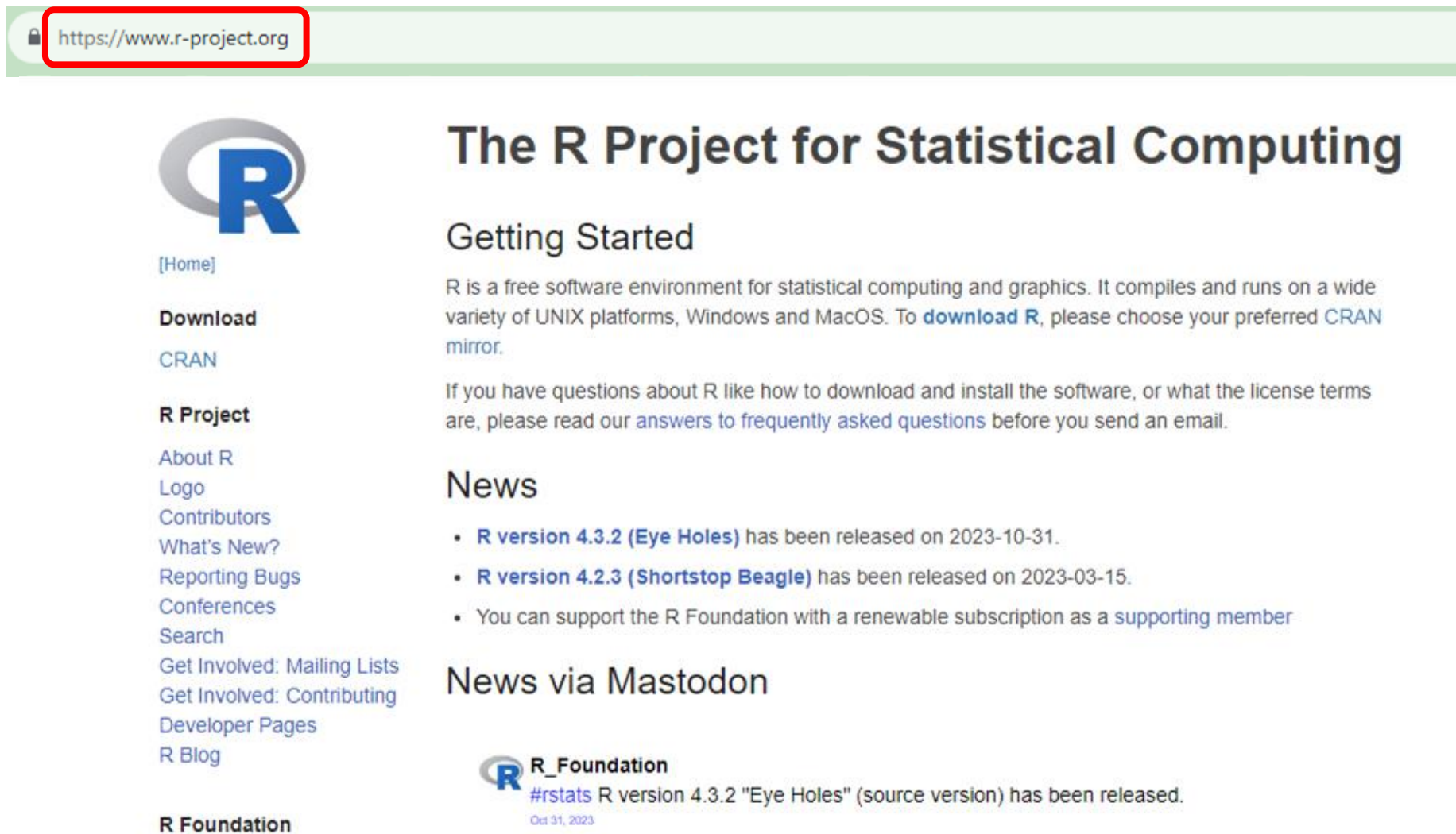
Ministrantes: Luan Campos Imbiriba e Ândrocles Oliveira Borges



MINISTÉRIO DA
CIÊNCIA, TECNOLOGIA
E INOVAÇÃO



- É necessário que se tenha o software R instalado no computador
- Para realizar download do R para Windows, MacOs ou Linus basta acessar o site do R www.r-project.org



The screenshot shows the homepage of the R Project for Statistical Computing. At the top, a green browser address bar displays the URL <https://www.r-project.org>, which is highlighted with a red rectangle. Below the address bar is the R logo, a blue 'R' inside a grey circle. To the left of the main content is a sidebar with a list of links: [Home], Download, CRAN, R Project, About R, Logo, Contributors, What's New?, Reporting Bugs, Conferences, Search, Get Involved: Mailing Lists, Get Involved: Contributing, Developer Pages, R Blog, and R Foundation. The main content area features the title 'The R Project for Statistical Computing' in a large, bold, dark font. Below the title is the section 'Getting Started', which contains a paragraph about R being a free software environment for statistical computing and graphics, and a link to 'download R'. It also includes a paragraph about frequently asked questions. The 'News' section follows, listing two recent releases: 'R version 4.3.2 (Eye Holes)' released on 2023-10-31, and 'R version 4.2.3 (Shortstop Beagle)' released on 2023-03-15. It also mentions a supporting member. The 'News via Mastodon' section at the bottom features the R Foundation logo and a tweet from #rstats announcing the release of R version 4.3.2 'Eye Holes' on October 31, 2023.

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

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.

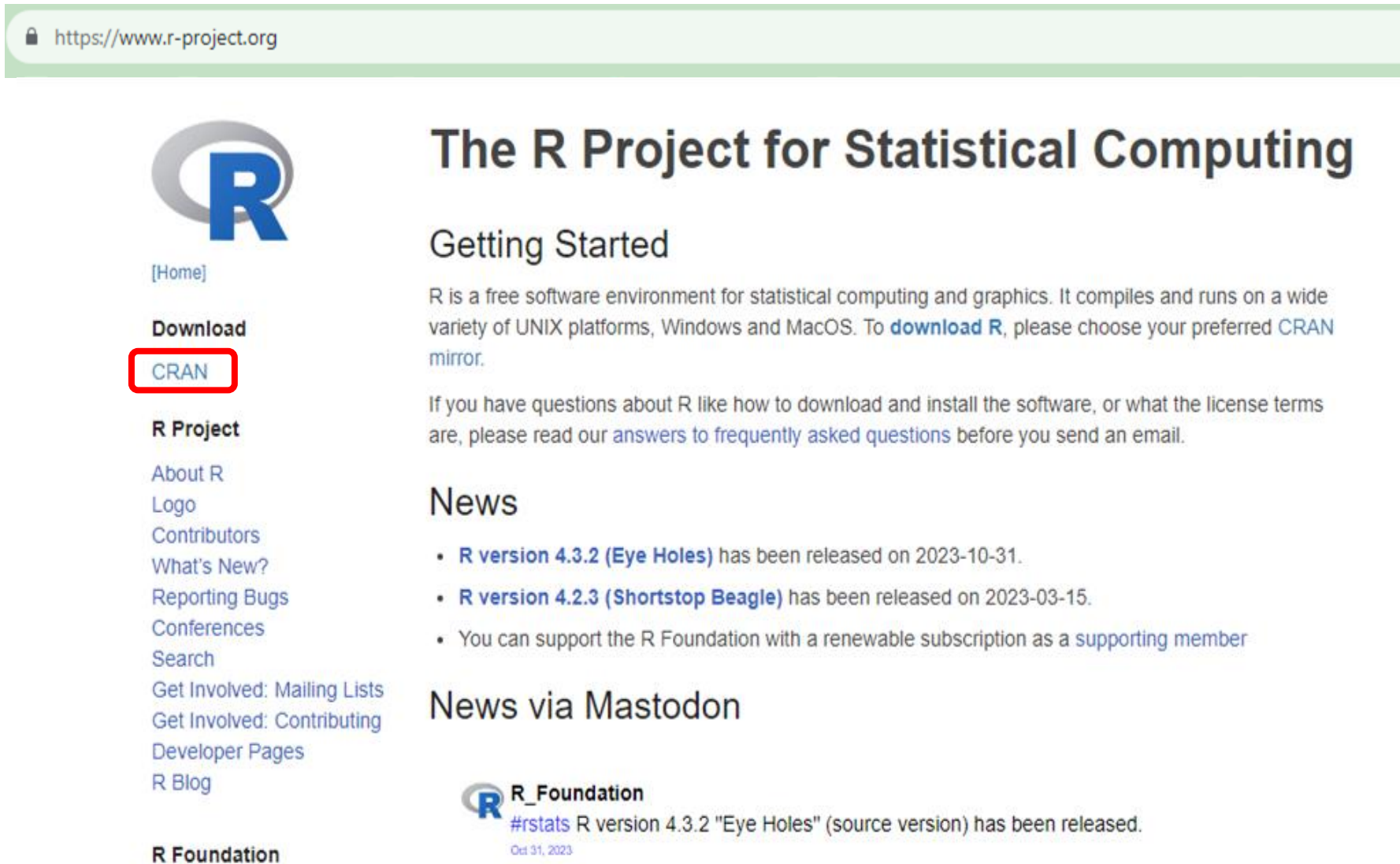
News

- [R version 4.3.2 \(Eye Holes\)](#) has been released on 2023-10-31.
- [R version 4.2.3 \(Shortstop Beagle\)](#) has been released on 2023-03-15.
- You can support the R Foundation with a renewable subscription as a [supporting member](#)

News via Mastodon


 **R_Foundation**
[#rstats](#) R version 4.3.2 "Eye Holes" (source version) has been released.
Oct 31, 2023

- Clique em CRAN (Comprehensive R Archive Network) na seção de Download



The screenshot shows the homepage of The R Project for Statistical Computing. The browser address bar at the top displays <https://www.r-project.org>. On the left sidebar, the 'Download' section is expanded, and the 'CRAN' link is highlighted with a red rectangle. The main content area features the R logo, the title 'The R Project for Statistical Computing', and sections for 'Getting Started', 'News', and 'News via Mastodon'. The 'Getting Started' section explains that R is a free software environment for statistical computing and graphics, available on various platforms, and directs users to download R from a preferred CRAN mirror. The 'News' section lists recent releases: R version 4.3.2 (Eye Holes) on 2023-10-31 and R version 4.2.3 (Shortstop Beagle) on 2023-03-15, along with a link to support the R Foundation. The 'News via Mastodon' section shows a tweet from the R Foundation about the release of R version 4.3.2 "Eye Holes" on October 31, 2023.

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



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R Project

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[Contributors](#)

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[Search](#)

[Get Involved: Mailing Lists](#)

[Get Involved: Contributing](#)

[Developer Pages](#)

[R Blog](#)

R Foundation

The R Project for Statistical Computing

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- Selecione o link de download em 0-Cloud

<https://cran.r-project.org/mirrors.html>

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 [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>

Automatic redirection to servers worldwide, currently sponsored by Rstudio

Argentina

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

Universidad Nacional de La Plata

Australia

<https://cran.csiro.au/>

CSIRO

<https://mirror.aarnet.edu.au/pub/CRAN/>

AARNET

<https://cran.ms.unimelb.edu.au/>

School of Mathematics and Statistics, University of Melbourne

<https://cran.curtin.edu.au/>

Curtin University

Austria

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

Wirtschaftsuniversität Wien

Belgium

<https://www.freeststatistics.org/cran/>

Patrick Wessa

<https://ftp.belnet.be/mirror/CRAN/>

Belnet, the Belgian research and education network

Brazil

<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

Bulgaria

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

Sofia University

- Selecione a opção de download do R adequada para seu sistema

https://cloud.r-project.org

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 (2023-10-31, Eye Holes) [R-4.3.2.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.

- Como exemplo para baixar a instalação do R para Windows
- Clique no link “install R for the first time”

https://cloud.r-project.org/bin/windows/

R for Windows

Subdirectories:

base	Binaries for base distribution. This is what you want to install R for the first time.
contrib	Binaries of contributed CRAN packages (for R \geq 3.4.x).
old contrib	Binaries of contributed CRAN packages for outdated versions of R (for R $<$ 3.4.x).
Rtools	Tools to build R and R packages. This is what you want to build your own packages on Windows, or to build R itself.

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](#).

Note: CRAN does some checks on these binaries for viruses, but cannot give guarantees. Use the normal precautions with downloaded executables.

- Então, só clicar na opção Download R-4.3.2 for Windows e realizar a instalação no diretório de sua máquina

https://cloud.r-project.org/bin/windows/base/

R-4.3.2 for Windows

[Download R-4.3.2 for Windows](#) (79 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

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](https://CRAN.MIRROR>/bin/windows/base/release.html).

Last change: 2023-10-31

- Após realizar a instalação do R, basta baixar a versão gratuita do RStudio no link <https://www.rstudio.com/products/rstudio/download/>
- Clicar em “Download Rstudio Desktop for Windows” e instalá-lo no diretório de sua máquina

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

1: Install R

RStudio requires R 3.3.0+. Choose a version of R that matches your computer's operating system.

DOWNLOAD AND INSTALL R

2: Install RStudio

DOWNLOAD RSTUDIO DESKTOP FOR WINDOWS

Size: 214.34 MB | [SHA-256: FE62B784](#) | Version: 2023.09.1+494 | Released: 2023-10-17

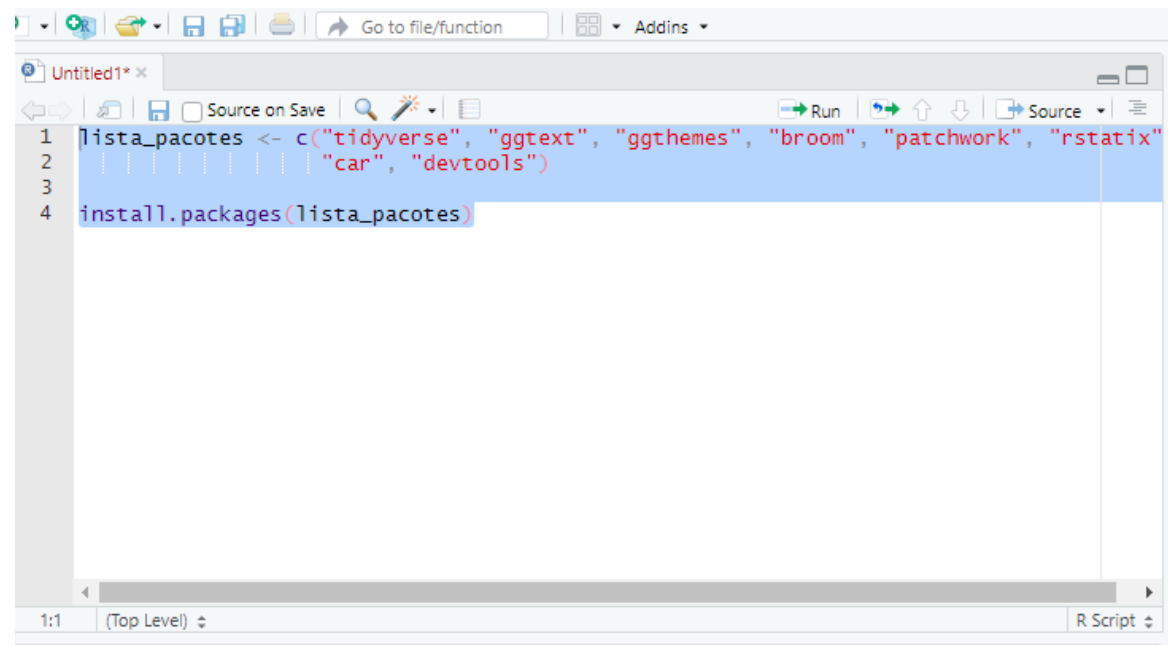
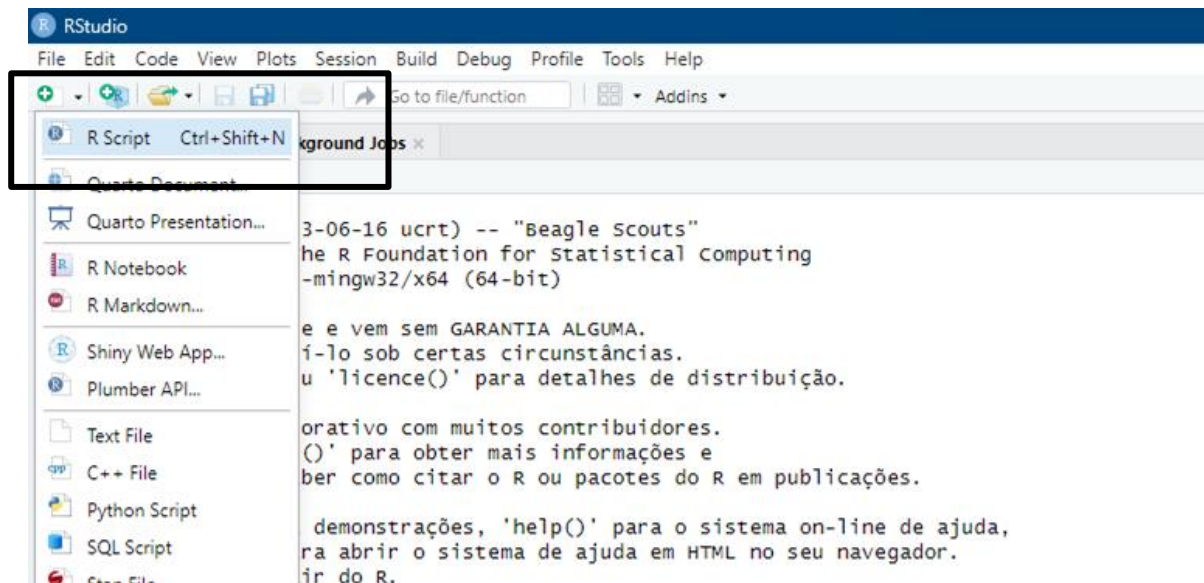
Instalação de pacotes

- Abra o Rstudio
- Clique no botão +
- Depois em R Script ou o comando Ctrl + Shift + N
- Copie o código abaixo e cole no RStudio

```
lista_pacotes <- c("tidyverse", "ggtext", "ggthemes",  
                  "broom", "patchwork", "rstatix",  
                  "car", "devtools")
```

```
install.packages(lista_pacotes)
```

- Selecione todo o código e clique em “Run” ou o comando Ctrl + Enter
- **Certifique-se de está com internet, a instalação dos pacotes demoram alguns minutos**



- Com isso, iremos trabalhar com essa plataforma no minicurso
- Qualquer dúvida entrar em contato através dos e-mails: luanimbiriba@gmail.com e androclesborges@gmail.com
- Forte abraço e nos vemos no dia 15/11/23

