

Conhecendo o RStudio

A IDE mais popular para trabalhar com R

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2021-05-04

Definição

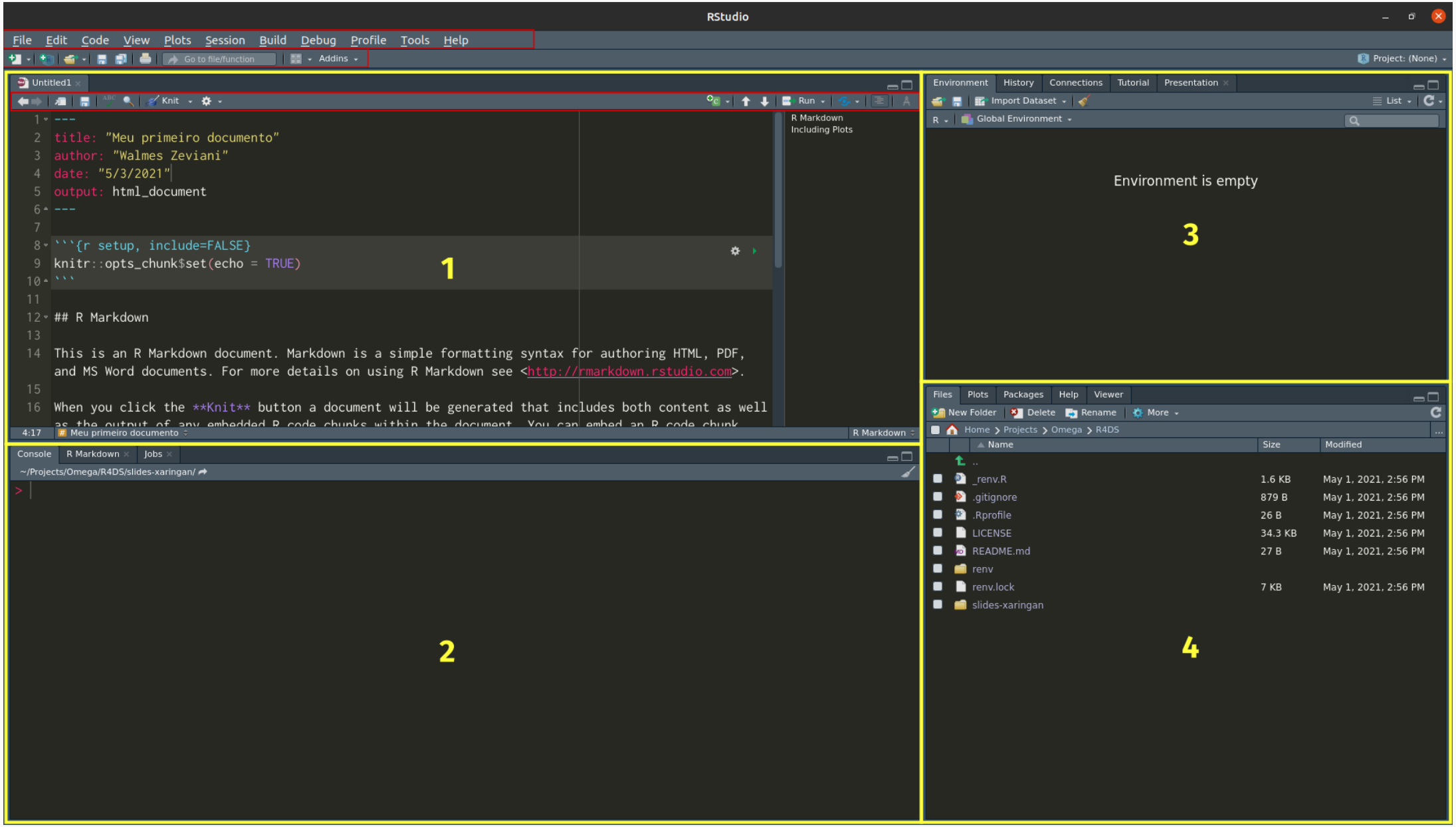
Detalhes

- A RStudio Desktop IDE é a IDE mais popular para a linguagem R.
- Mantida pela **RStudio**: https://www.rstudio.com/.
- Tem vesões para servidor com acesso web: RStudio Server.



https://www.rstudio.com/

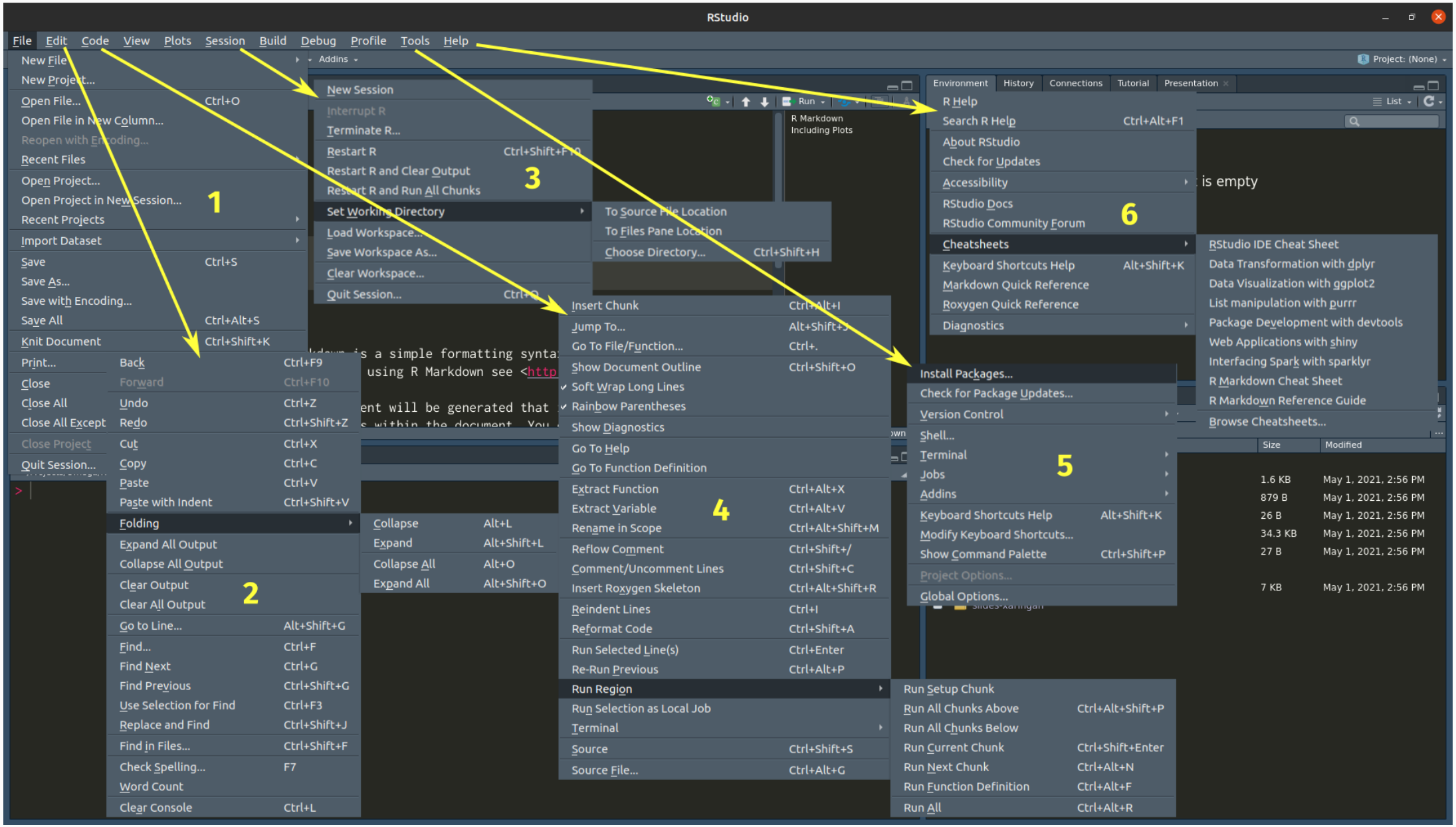
Os painéis


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
Project: (None)
Untitled1
Knit
Run
R Markdown
Including Plots
---
title: "Meu primeiro documento"
author: "Walmes Zeviani"
date: "5/3/2021"
output: html_document

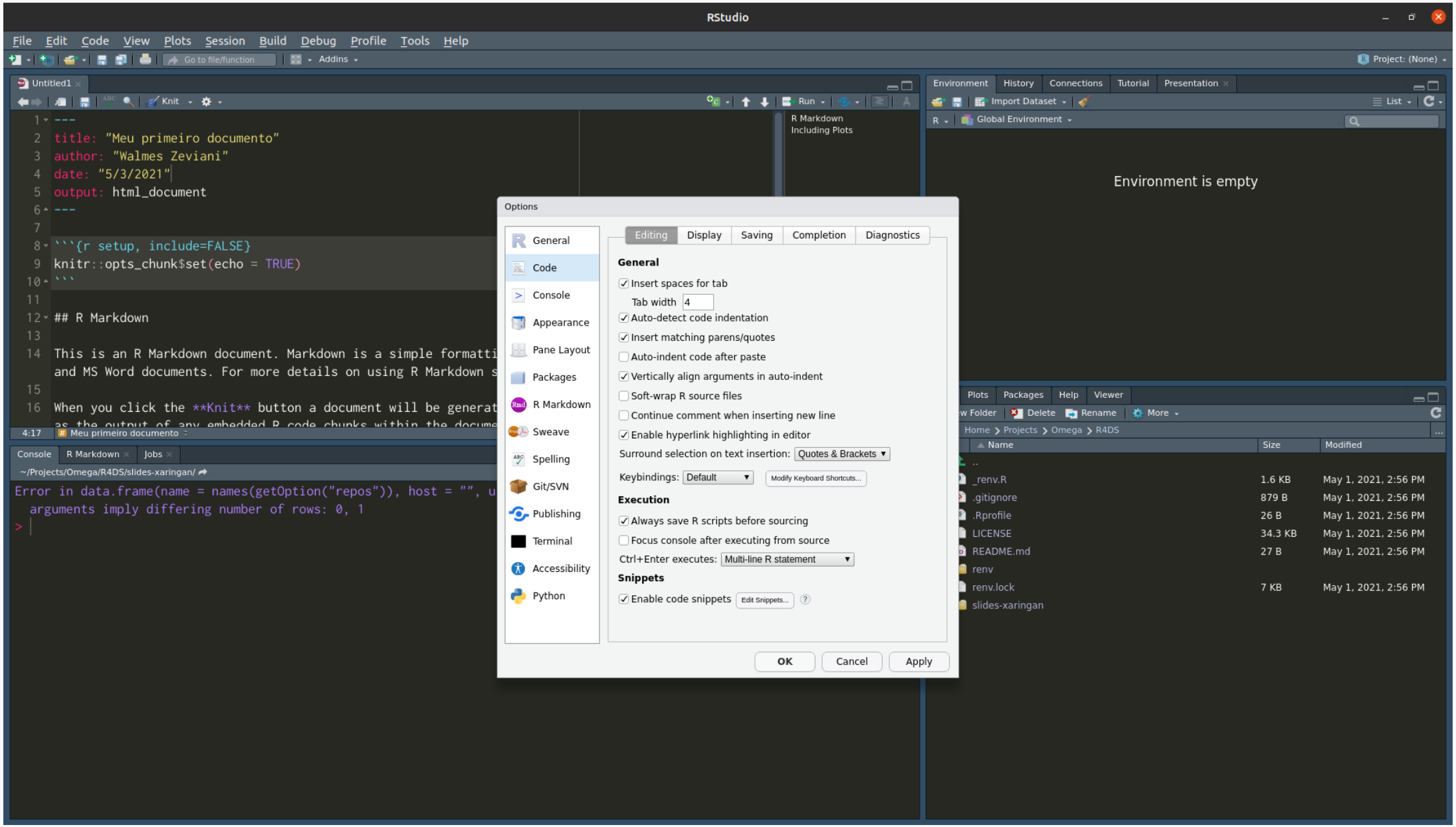
```{r setup, include=FALSE}
knitr::opts_chunk$set(echo = TRUE)
```
R Markdown
This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF,
and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.
When you click the **Knit** button a document will be generated that includes both content as well
1
4:17
Meu primeiro documento
R Markdown
Console
R Markdown
Jobs
~/Projects/Omega/R4DS/slides-xaringan/
>
2
Environment
History
Connections
Tutorial
Presentation
Import Dataset
List
R
Global Environment
Environment is empty
3
Files
Plots
Packages
Help
Viewer
New Folder
Delete
Rename
More
Home > Projects > Omega > R4DS
Name
Size
Modified
..
_renv.R 1.6 KB May 1, 2021, 2:56 PM
.gitignore 879 B May 1, 2021, 2:56 PM
.Rprofile 26 B May 1, 2021, 2:56 PM
LICENSE 34.3 KB May 1, 2021, 2:56 PM
README.md 27 B May 1, 2021, 2:56 PM
renv
renv.lock 7 KB May 1, 2021, 2:56 PM
slides-xaringan
4



Os menus


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
New File
New Project...
Open File... Ctrl+O
Open File in New Column...
Reopen with Encoding...
Recent Files
Open Project...
Open Project in New Session...
Recent Projects
Import Dataset
Save Ctrl+S
Save As...
Save with Encoding...
Save All Ctrl+Alt+S
Knit Document Ctrl+Shift+K
Print...
Close
Close All
Close All Except
Close Project
Quit Session...
1
Back Ctrl+F9
Forward Ctrl+F10
Undo Ctrl+Z
Redo Ctrl+Shift+Z
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Paste with Indent Ctrl+Shift+V
Folding
Expand All Output
Collapse All Output
Clear Output
Clear All Output
Go to Line... Alt+Shift+G
Find... Ctrl+F
Find Next Ctrl+G
Find Previous Ctrl+Shift+G
Use Selection for Find Ctrl+F3
Replace and Find Ctrl+Shift+J
Find in Files... Ctrl+Shift+F
Check Spelling... F7
Word Count
Clear Console Ctrl+L
2
Collapse Alt+L
Expand Alt+Shift+L
Collapse All Alt+O
Expand All Alt+Shift+O
New Session
Interrupt R
Terminate R...
Restart R Ctrl+Shift+F10
Restart R and Clear Output
Restart R and Run All Chunks
Set Working Directory
Load Workspace...
Save Workspace As...
Clear Workspace...
Quit Session... Ctrl+Q
3
To Source File Location
To Files Pane Location
Choose Directory... Ctrl+Shift+H
Insert Chunk Ctrl+Alt+I
Jump To... Alt+Shift+J
Go To File/Function... Ctrl+.
Show Document Outline Ctrl+Shift+O
Soft Wrap Long Lines
Rainbow Parentheses
Show Diagnostics
Go To Help
Go To Function Definition
Extract Function Ctrl+Alt+X
Extract Variable Ctrl+Alt+V
Rename in Scope Ctrl+Alt+Shift+M
Reflow Comment Ctrl+Shift+/
Comment/Uncomment Lines Ctrl+Shift+C
Insert Roxygen Skeleton Ctrl+Alt+Shift+R
Reindent Lines Ctrl+I
Reformat Code Ctrl+Shift+A
Run Selected Line(s) Ctrl+Enter
Re-Run Previous Ctrl+Alt+P
Run Region
Run Selection as Local Job
Terminal
Source Ctrl+Shift+S
Source File... Ctrl+Alt+G
4
Run Setup Chunk
Run All Chunks Above Ctrl+Alt+Shift+P
Run All Chunks Below
Run Current Chunk Ctrl+Shift+Enter
Run Next Chunk Ctrl+Alt+N
Run Function Definition Ctrl+Alt+F
Run All Ctrl+Alt+R
Install Packages...
Check for Package Updates...
Version Control
Shell...
Terminal
Jobs
Addins
Keyboard Shortcuts Help Alt+Shift+K
Modify Keyboard Shortcuts...
Show Command Palette Ctrl+Shift+P
Project Options...
Global Options...
5
Environment History Connections Tutorial Presentation
R Help
Search R Help Ctrl+Alt+F1
About RStudio
Check for Updates
Accessibility
RStudio Docs
RStudio Community Forum
Cheatsheets
Keyboard Shortcuts Help Alt+Shift+K
Markdown Quick Reference
Roxygen Quick Reference
Diagnostics
6
RStudio IDE Cheat Sheet
Data Transformation with dplyr
Data Visualization with ggplot2
List manipulation with purrr
Package Development with devtools
Web Applications with shiny
Interfacing Spark with sparklyr
R Markdown Cheat Sheet
R Markdown Reference Guide
Browse Cheatsheets...
Size Modified
1.6 KB May 1, 2021, 2:56 PM
879 B May 1, 2021, 2:56 PM
26 B May 1, 2021, 2:56 PM
34.3 KB May 1, 2021, 2:56 PM
27 B May 1, 2021, 2:56 PM
7 KB May 1, 2021, 2:56 PM

As configurações do usuário


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R Markdown
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Console
R Markdown
Jobs
~/Projects/Omega/R4DS/slides-xaringan/
Error in data.frame(name = names(getOption("repos")), host = "", u
arguments imply differing number of rows: 0, 1
>
Environment
History
Connections
Tutorial
Presentation
Import Dataset
List
R
Global Environment
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slides-xaringan
Options
General
Code
Console
Appearance
Pane Layout
Packages
R Markdown
Sweave
Spelling
Git/SVN
Publishing
Terminal
Accessibility
Python
Editing
Display
Saving
Completion
Diagnostics
General
Insert spaces for tab
Tab width 4
Auto-detect code indentation
Insert matching parens/quotes
Auto-indent code after paste
Vertically align arguments in auto-indent
Soft-wrap R source files
Continue comment when inserting new line
Enable hyperlink highlighting in editor
Surround selection on text insertion: Quotes & Brackets
Keybindings: Default
Modify Keyboard Shortcuts...
Execution
Always save R scripts before sourcing
Focus console after executing from source
Ctrl+Enter executes: Multi-line R statement
Snippets
Enable code snippets
Edit Snippets...
OK
Cancel
Apply

Recomendações

- RStudio Desktop IDE é muito fácil de aprender.
- Já vem toda preparada para trabalhar com todas tarefas envolvendo R:
  - Análise de dados com scripts.
  - Conexão com bancos de dados.
  - Elaboração de documentos dinâmicos.
  - Desenvolvimento de aplicações web.
  - Atuação em projetos com versionamento.
  - Desenvolvimento de pacotes R.
  - Integração R e Python.
- Domine os atalhos de teclado para maior produtividade.
- Trabalhe sempre com sessões novas.
- Para projetos grandes, use o recurso de projetos.

Agora que conhece o RStudio, o que vamos fazer?

Vamos começar a escrever código!