

Laboratório de Biologia Computacional e Molecular

Centro de Biotecnologia da UFRGS Universidade Federal do Rio Grande do Sul



R para Ciências da Vida (BCM13065) Aula 2

PPGBCM - UFRGS

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Interfaces para o R

Terminal

- Desvantagens:
 - Sem interface gráfica
 - Aprendizado mais lento
- Vantagens:
 - Rapidez
 - Menos consumo de memória
 - Uso em hardwares antigos

- IDEs = integrated development environment
- GUI = graphical user interface
 - Desvantagens:
 - Uso de memória pode ser intensivo
 - Conflito com outros programas
 - Não funciona bem com hardwares mais antigos
 - Vantagens:
 - Aprendizado rápido
 - Acelera o desenvolvimento dos scripts e das análises

Last login: Mon Nov 4 09:31:22 on ttys004 diegobonatto@Diegos-MacBook-Air ~ % R

R version 4.2.1 (2022-06-23) -- "Funny-Looking Kid" Copyright (C) 2022 The R Foundation for Statistical Computing Platform: x86_64-apple-darwin17.0 (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.

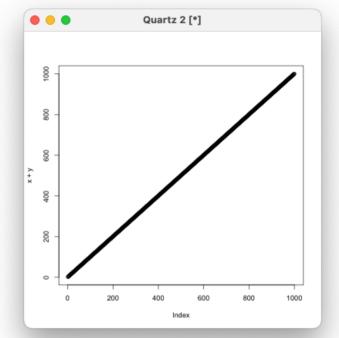
Natural language support but running in an English locale

R is a collaborative project with many contributors.

Type 'contributors()' for more information and 'citation()' on how to cite R or R packages in publications.

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.

[Área de trabalho anterior carregada]



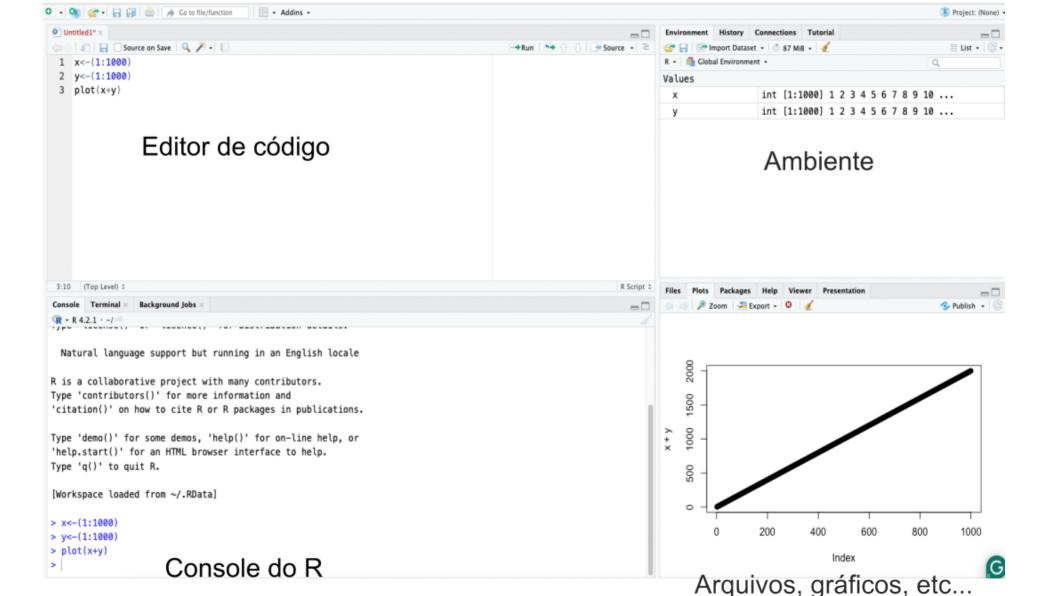
```
> x<-(1:1000)
```

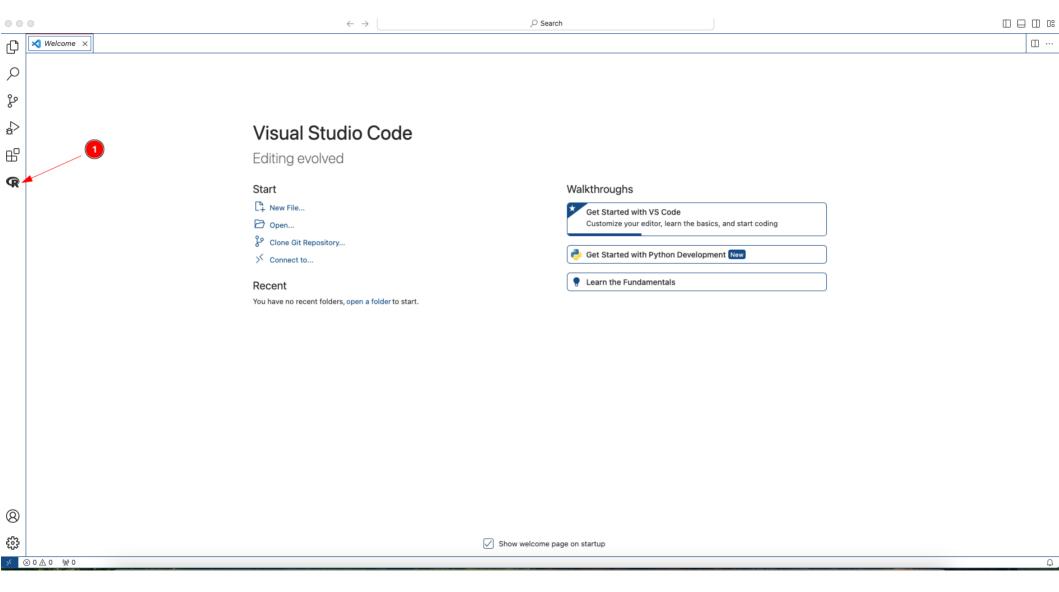
> 2024-11-05 10:07:46.058 R[7129:866722] +[IMKClient subclass]: chose IMKClient_Modern

2024-11-05 10:07:46.058 R[7129:866722] +[IMKInputSession subclass]: chose IMKInputSession_Modern

> y<-(1:000)

> plot(x+y)







radian: A 21 century R console





radian is an alternative console for the R program with multiline editing and rich syntax highlight. One would consider radian as a ipython clone for R, though its design is more aligned to julia.

```
R version 3.4.1 (2017-06-30) -- Single Candle
Platform: x86_64-apple-darwin16.7.0

r$> x <- c(1.3, 3.6, 7.8)

r$> f <- function(x) {
    "multiline support"
    }

#!> echo "this is shell model"
    this is shell model

r$> library(tidy
    tidyr
    tidyselect
    tidyverse
```

Features

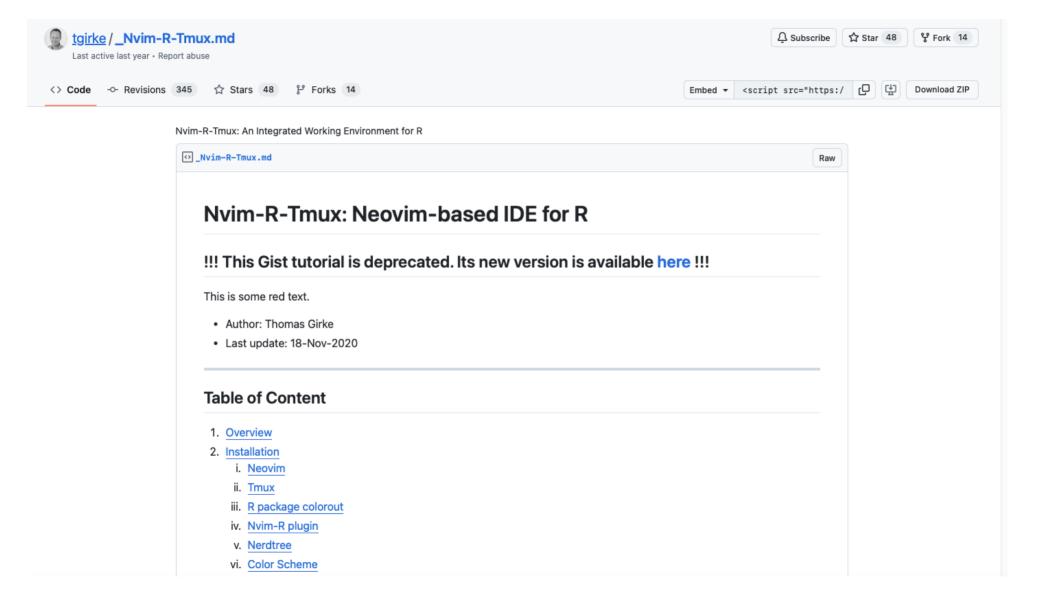
- · cross platform, runs on Windows, macOS and Linux
- shell mode: hit; to enter and <backspace> to leave

Languages

• Python 95.8%

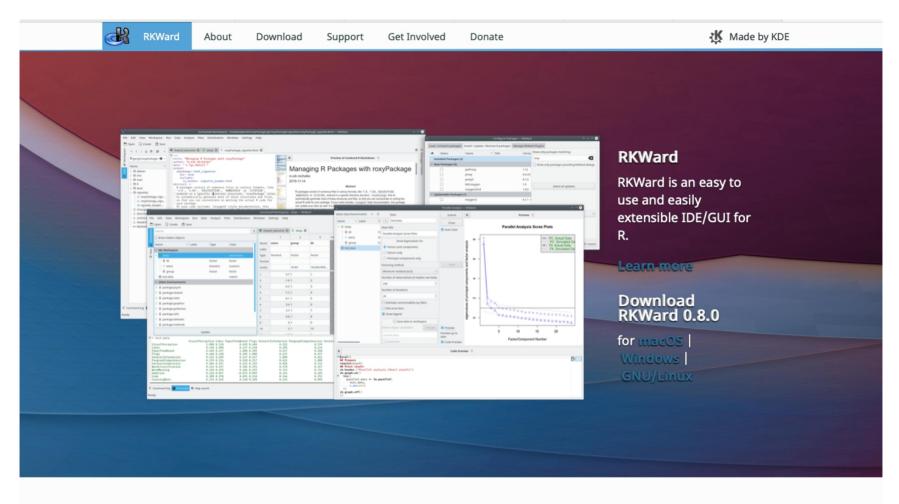
R 3.8%

Other 0.4%



```
library("foreign")
                                                          .GlobalEnv | Libraries
m <- read.spss("moz r5 data.sav", to.data.frame = TRUE)</pre>
                                                                   [2400, 362]
varlabels <- attr(m, "variable.labels")</pre>
                                                                RESPN0
                                                                          Responden
for(n in names(varlabels))
                                                                URBRUR Urban or
    attr(m[[n]], "label") <- varlabels[n]
                                                                REGION
                                                                          Province
summary(m$URBRUR)
                                                                DISTRICT
                                                                EA SVC A
                                                                EA SVC B
                                                                EA SVC C
Afrobarometer.R [+]
                                       7,18
                                                      All <ect Browser 1,1
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
nvimcom 0.9.89 loaded
> library("foreign")
 m <- read.spss("moz r5 data.sav", to.data.frame = TRUE)</pre>
There were 17 warnings (use warnings() to see them)
> varlabels <- attr(m, "variable.labels")</pre>
> for(n in names(varlabels))
      attr(m[[n]], "label") <- varlabels[n]
term:///tmp//101738:R
                                                                                 Bot
```

-- INSERT --



Current News RKWard 0.8.0

