jinha

8/8/23

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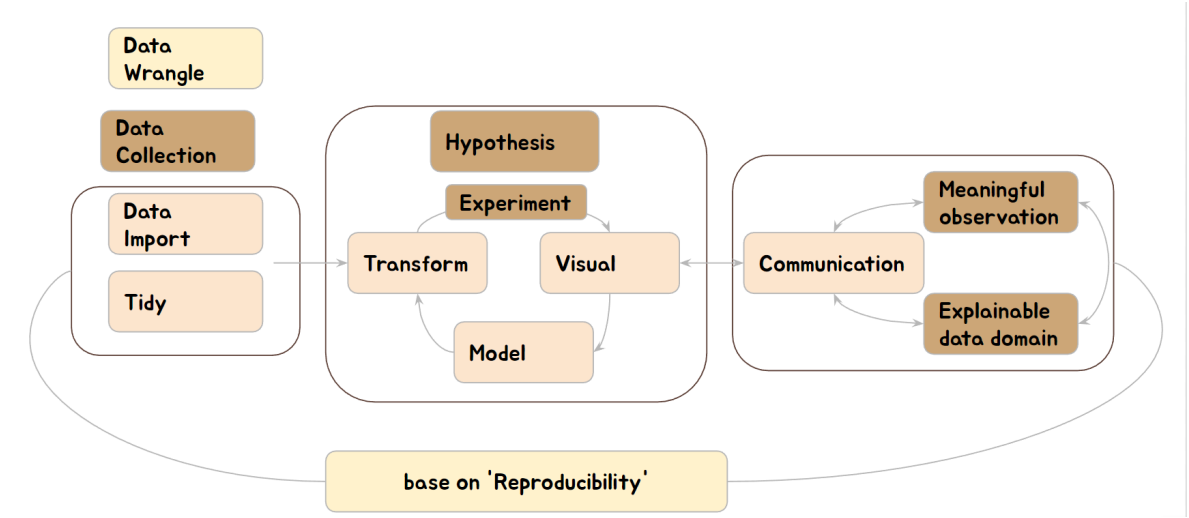
Data Wrangle
Data Collection
Data Import
Tidy
Hypothesis
Experiment
Transform
Visual
Model
Communication
Meaningful observation
Explainable data domain
base on 'Reproducibility'

R, Rstudio, markdown, Shiny server, PostgreSQL github . R ,
. Rafael A. Irizarry Hadley Wickham . .

books

title	authos	url
Introduction to Data Science with R	Rafael A. Irizarry	https://rafalab.github.io/dsbook/
R for Data Science	Garrett Grolemund, Hadley Wickham	https://r4ds.had.co.nz/index.html

- I hope you will get valuable experience with me.

  .!!! **jinha**

Part I

I. R

1 R & R studio

R R studio . rstudio cloud .

1.1 Rstudio Cloud

R studio cloud R R studio . , .

- Rstudio cloud
  - RStudio Cloud .
  - .
  - New Project .
  - .

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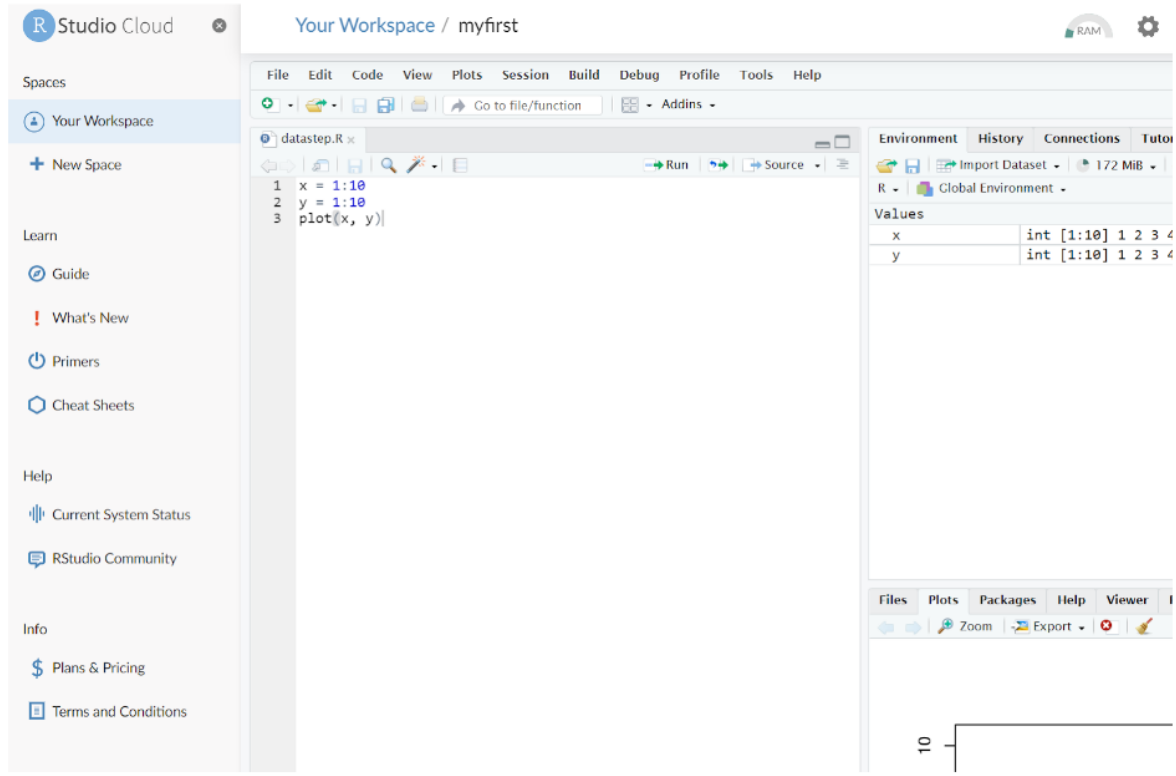
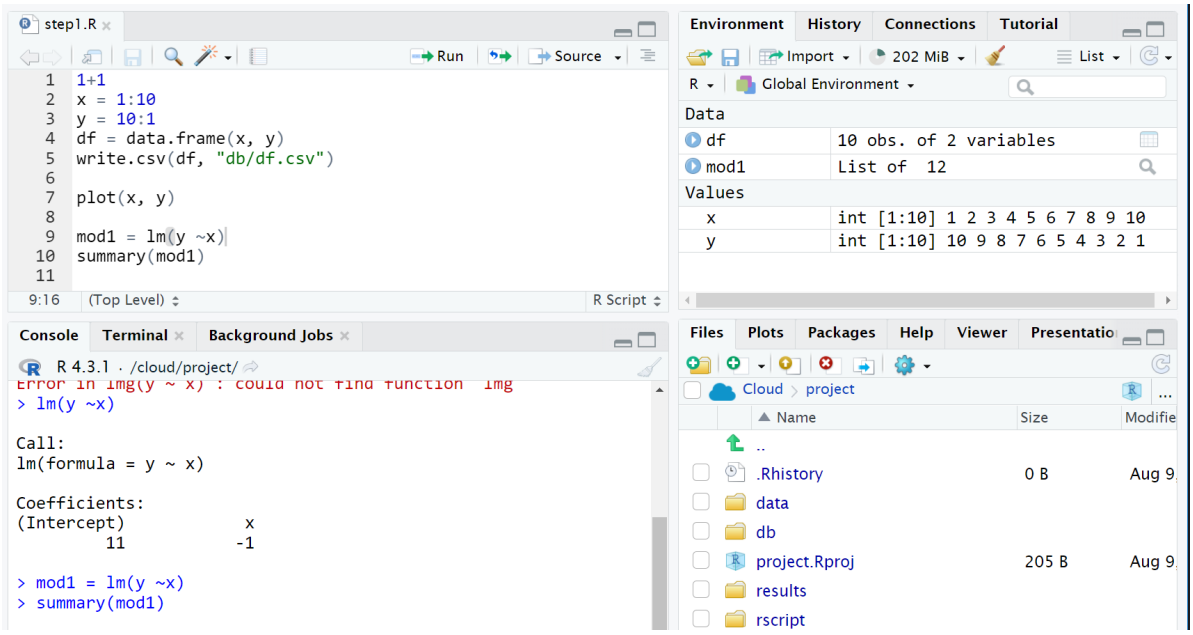

Studio Cloud
Your Workspace / myfirst
Spaces
Your Workspace
New Space
Learn
Guide
What's New
Primers
Cheat Sheets
Help
Current System Status
RStudio Community
Info
Plans & Pricing
Terms and Conditions
File Edit Code View Plots Session Build Debug Profile Tools Help
datastep.R
1 x = 1:10
2 y = 1:10
3 plot(x, y)
Environment History Connections
Values
x int [1:10] 1 2 3 4
y int [1:10] 1 2 3 4
Files Plots Packages Help Viewer
Zoom Export
10


step1.R
1 1+1
2 x = 1:10
3 y = 10:1
4 df = data.frame(x, y)
5 write.csv(df, "db/df.csv")
6
7 plot(x, y)
8
9 mod1 = lm(y ~x)
10 summary(mod1)
11
9:16 (Top Level) R Script
Environment History Connections Tutorial
Import 202 MiB List
R Global Environment
Data
df 10 obs. of 2 variables
mod1 List of 12
Values
x int [1:10] 1 2 3 4 5 6 7 8 9 10
y int [1:10] 10 9 8 7 6 5 4 3 2 1
Console Terminal Background Jobs
R 4.3.1 · /cloud/project/
> lm(y ~x)
Call:
lm(formula = y ~ x)
Coefficients:
(Intercept) x
11 -1
> mod1 = lm(y ~x)
> summary(mod1)
Files Plots Packages Help Viewer Presentation
Cloud project
Name Size Modifie
..
.Rhistory 0 B Aug 9
data
db
project.Rproj 205 B Aug 9
results
rscript

1.2 R and R studio on Window system

Windows R R .

1. R cran .

- .

2. R .
3. Windows R
4. Base → Install R for the first Time
5. **Download R * for Windows**

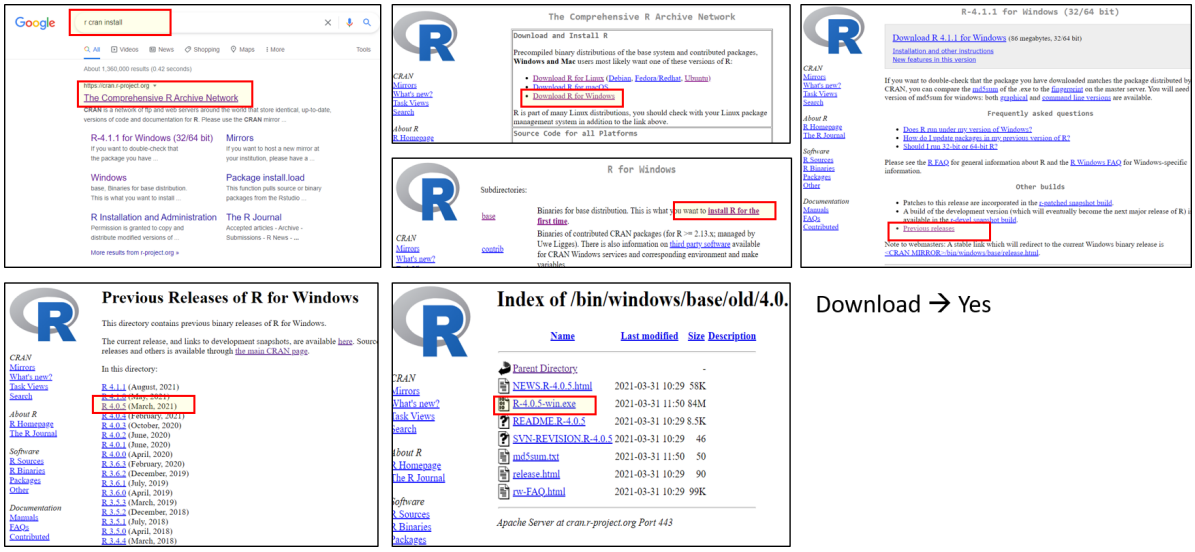


Figure 1.1: R

1.2.1 R studio install

R . Rstudio . https://posit.co/download/rstudio-desktop/

R studio .

1.2.2 R studio project

R . . .

. .

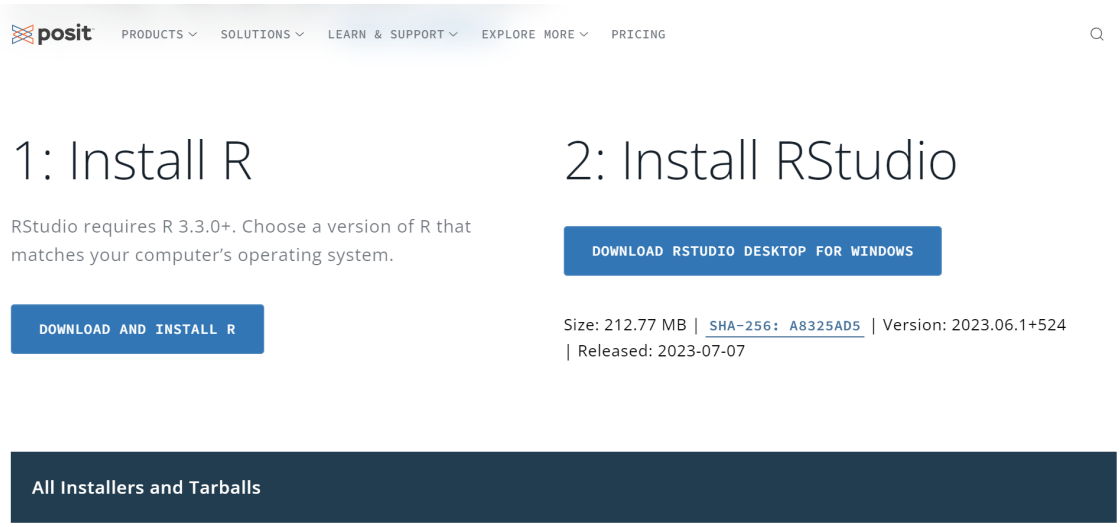


Figure 1.2: R

Windows .

, R .

1.3 R and R studio on Ubuntus

R . , . . , docs .

Google Doc Google Doc Download

2 Summary

In summary, this book has no content whatsoever.

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1 + 1
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[1] 2
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