

Before we start... < TROUBLESHOOTING > R/ RStudio install & setup



<https://datacarpentry.org/r-socialsci/>

Before we start...

< TROUBLESHOOTING >

It's a learning process for each of us..



You could interpret a **Data Carpentry workshop** as a ‘**guided learning experience**’, therefore, if you feel lost or got stuck, do not worry, this is absolutely normal.

Usually that is absolutely fine if you just pay attention what is happening on the screen, we are demonstrating the same lessons as they are fully available online.

The sessions are interactive and informal, we are here to help one another. And have to admit, we are not able to provide the right answers all the time.

Before we start... <TROUBLESHOOTING> R (un/)install & setup

- Go to <https://www.r-project.org/>
- Go to the [download](#) link
- Choose your CRAN mirror nearer to your location (either [Bristol](#) or [Imperial College](#) London)
- Download the correspondent version depending if you are using Windows Mac or Linux
 - For **Windows** click on **install R for the first time**. Then **download R 4.0.1 for Windows** and follow the installation widget. If you get stuck follow this video tutorial <https://www.youtube.com/watch?v=GAGUDL-4aVw>
 - Form **Mac** Download **R-4.0.1.pkg** and follow the installation widget. If you get stuck follow this video tutorial <https://www.youtube.com/watch?v=EmZqlcKkJMM>
 - For **Linux** go on the correspondent subfolder and follow the normal path you do for installing new software. If you are using Ubuntu you can follow this guide <https://www.youtube.com/watch?v=kF0-FH-xBiE>



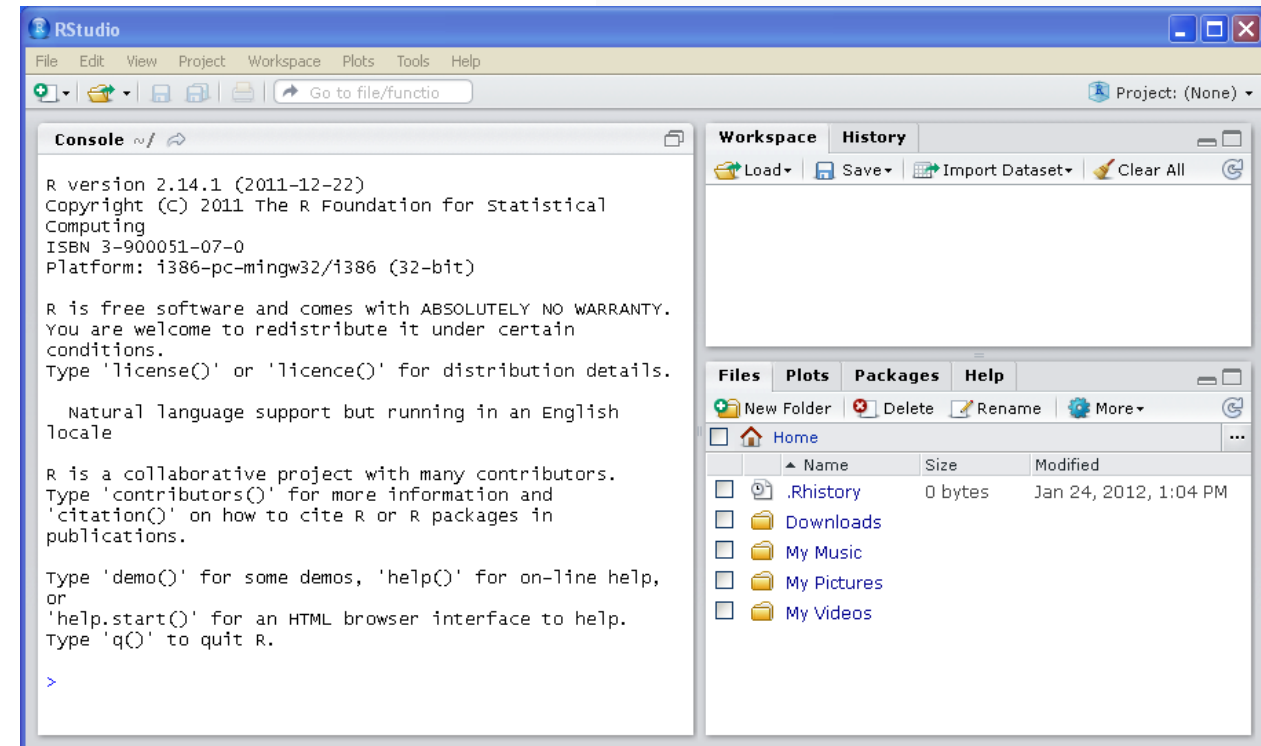
[Credit to Lucia Michielin]

+1 Uninstalling earlier R version, visit: https://cran.r-project.org/bin/windows/base/rw-FAQ.html#How-do-I-UNinstall-R_003f

- Once R is installed you can install R studio (R interface)
- Go to www.rstudio.com
- Go in [download](#)
- Download the correspondent version depending on your Operating system and install it.
- Open the R studio interface and if it is looking like this
- **If you already using R/ RStudio: be sure they are up-to-date!**



```
Console Terminal x Jobs x
~/Desktop/Desktop_files/Data_Carpentry/SFC_Upskilling_
> sessionInfo()
R version 4.0.1 (2020-06-06)
Platform: x86_64-apple-darwin17.0 (64-bit)
Running under: macOS Catalina 10.15.5
```



[Credit to Lucia Michielin]

Download and unzip the data to a preferred working directory

<https://ndownloader.figshare.com/articles/1314459/versions/9> [compressed files]

https://figshare.com/articles/Portal_Project_Teaching_Database/1314459

Brief

“The Portal Project Teaching Database is a simplified version of the Portal Project Database designed for teaching. It provides a real world example of life-history, population, and ecological data, with sufficient complexity to teach many aspects of data analysis and management, but with many complexities removed to allow students to focus on the core ideas and skills being taught.”

Before we start... < TROUBLESHOOTING >

Get the data ready...



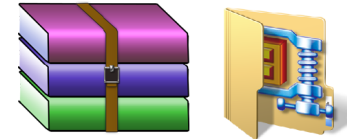
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Search on figshare...





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Sign up






DATASET
plots.csv (0.53 kB)



TEXT
plots.json (1.07 kB)



DATASET
species.csv (1.57 kB)


TEXT
species.json (4.07 kB)


DATASET
survey_data_spre... .xls (46 kB)


DATASET
Portal_rodents_1... .csv (5.4 MB)


TEXT
surveys.json (4.35 MB)


DATASET
surveys.csv (997.64 kB)

Cite

Download all (38.4 MB)

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+ Collect (you need to log in first)

11 files 1 / 2 < > ☐ ☰

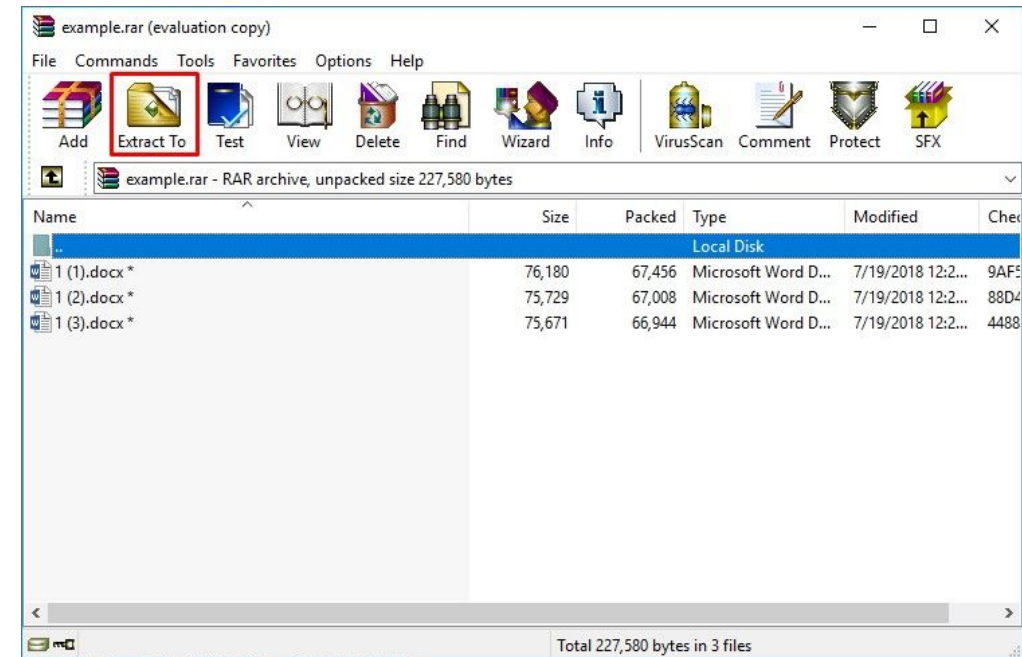


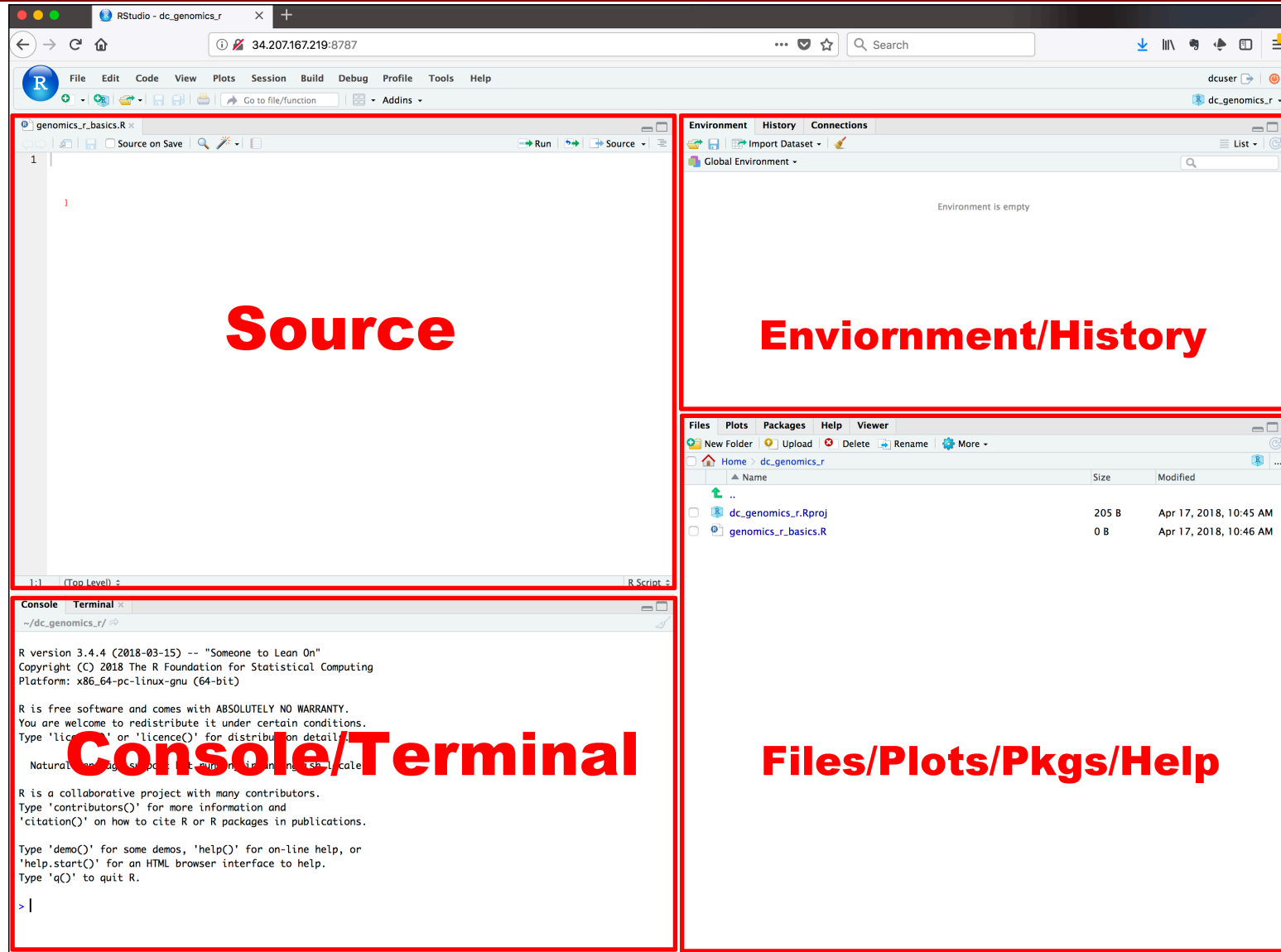
Image is for illustration only.

1. Download compressed files from online repository
2. Decompress (e.g. unzip) file(s) into preferred working directory

R script handout download URL:

<https://datacarpentry.org/R-ecology-lesson/code-handout.R>

Before we start... Our working environment Graphical User Interface (GUI)



RStudio IDE Cheatsheet

<https://github.com/rstudio/cheatsheets/raw/master/rstudio-ide.pdf>



RStudio keyboard shortcuts



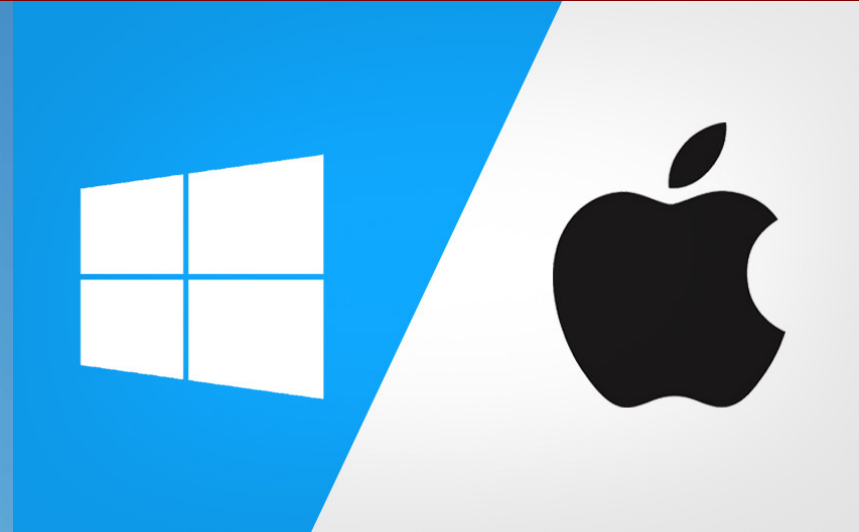
[Menu bar/] *Tools* → *Keyboard Shortcuts Help*, e.g.:

- **Save:** Ctrl (Cmd) + S
- **Execute/ run script or command/ instruction:** Ctrl (Cmd) + Enter
- **Autofill:** press 'Tab'
- **Comment single line/ multiple lines:** Shift + Ctrl (Cmd) + C **OR** everything after the *hash* '#' symbol will be interpreted as a comment

Cheatsheets

<https://rstudio.com/resources/cheatsheets/>

Before we start... Please be aware..



R/ RStudio can behave slightly differently when running on different OS (e.g. Windows vs UNIX [e.g. Mac or Linux] machines) and even on the same OS different software versions can 'surprise' us.