## RStudio

For Beginners

## Outline

- How do dowload Rstudio
- How to create a shortcut at your desktop
- Getting used to the environment
- Create a Script and Save a Script
- How to Personalize
- Pane Layout
- Basics
- Installing a Package
- Simple Example Plot
- Working Directory

Singapore

Advertising

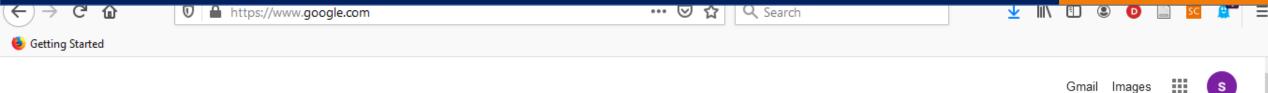
About



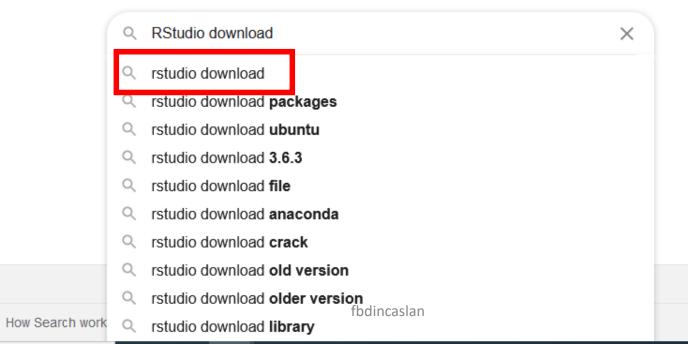
Settings

Privacy

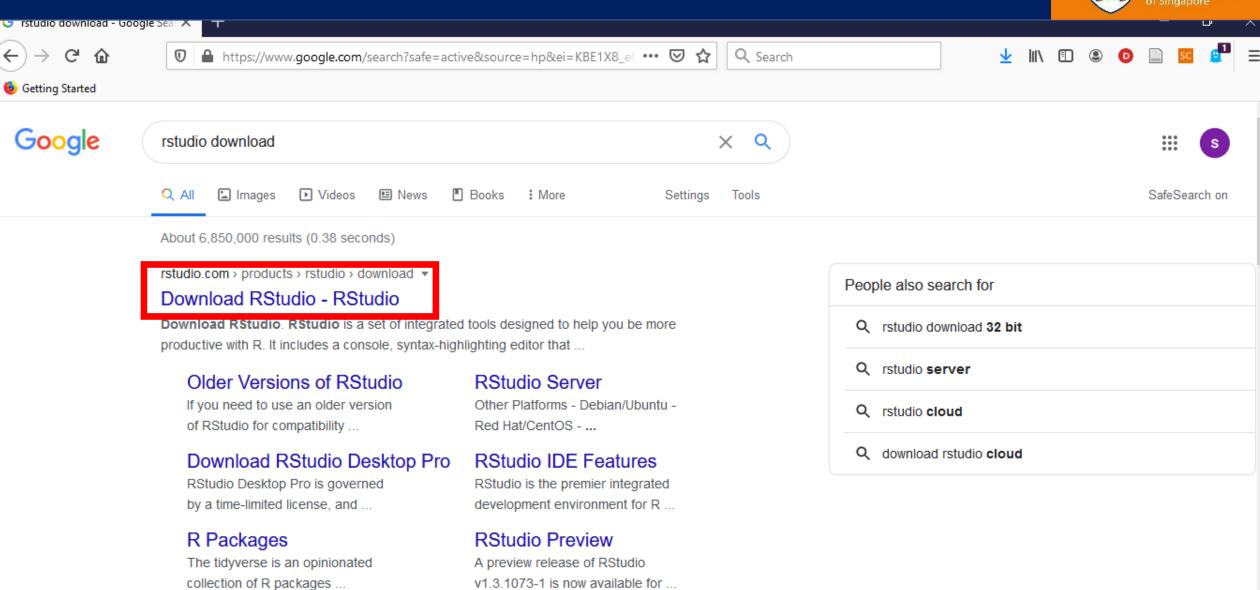
Terms



# Google



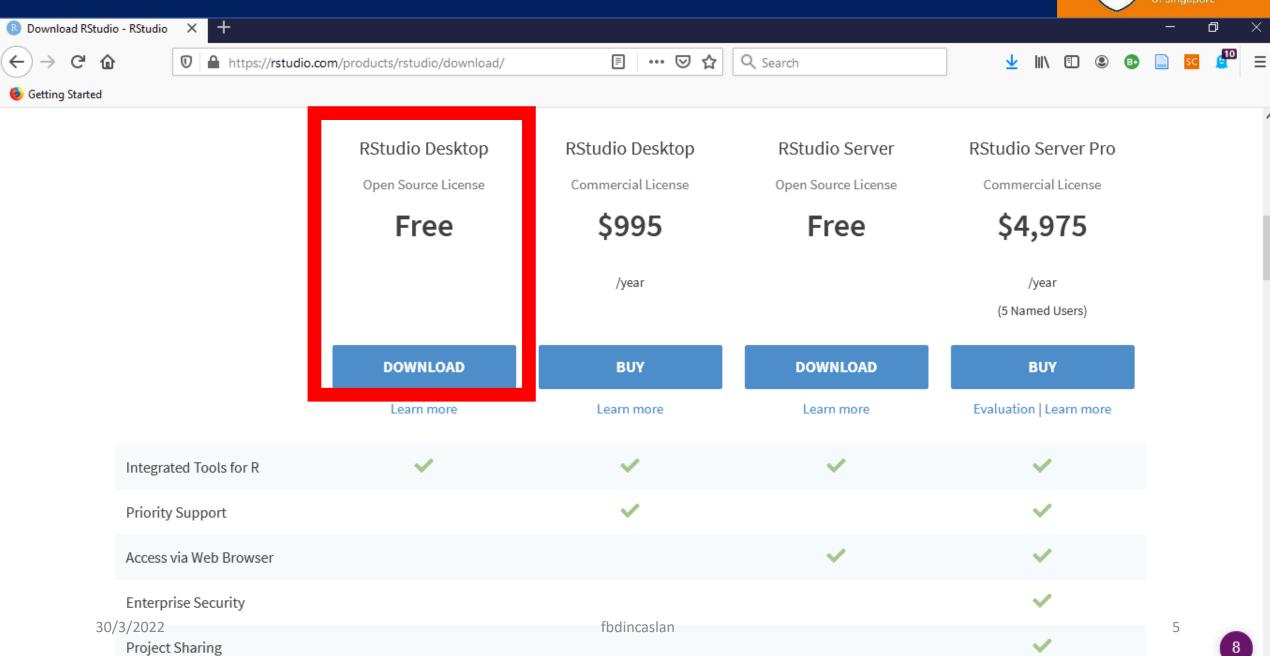




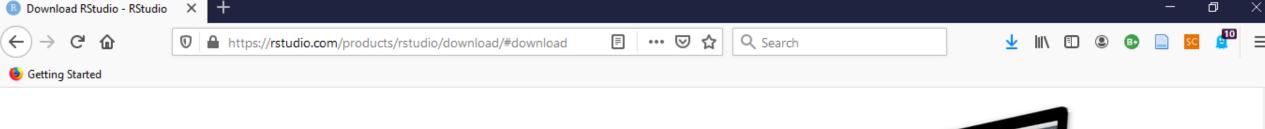
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More results from rstudio.com »









## RStudio Desktop 1.3.1073 - Release Notes

- 1. Install R. RStudio requires R 3.0.1+.
- 2. Download RStudio Desktop. Recomme

DOWNLOAD RSTUDIO FOR WINDOWS
1.3.1073 | 171.62MB

Requires Windows 10/8/7 (64-bit)

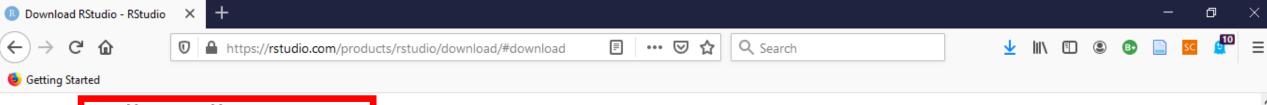
If you havent downlaoded R before, please downlaod R first.

R is the main program. Rstudio is the IDE (Integrated Development Environment).





Scroll down and see other versions for different operating systems if you are not using Windows>7.



## All Installers

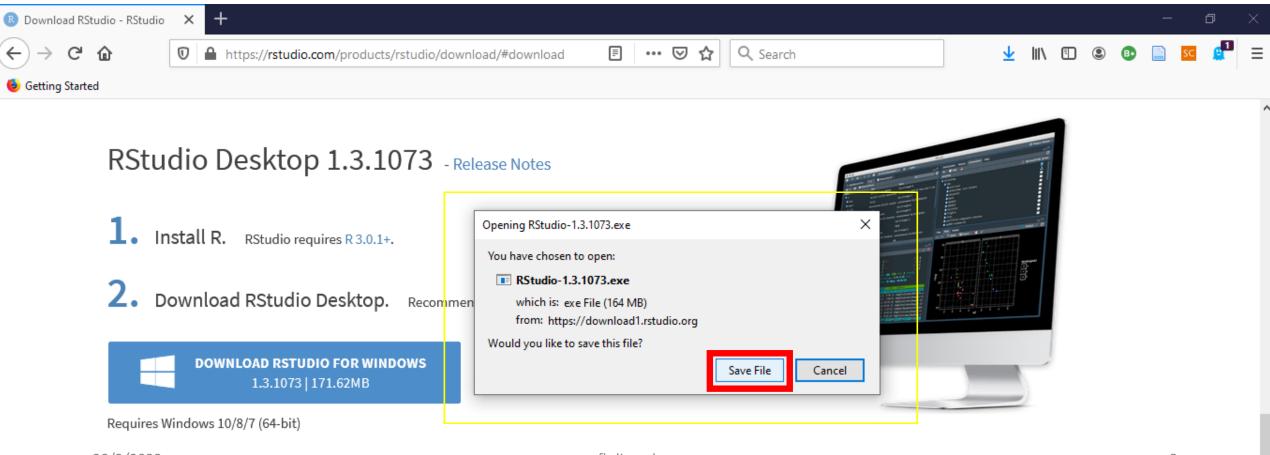
Linux users may need to import RStudio's public code-signing key prior to installation, depending on the operating system's security policy.

RStudio requires a 64-bit operating system. If you are on a 32 bit system, you can use an older version of RStudio.

os	Download	Size	SHA-256
Windows 10/8/7	♣ RStudio-1.3.1073.exe	171.62 MB	2fea472a
macOS 10.13+	♣ RStudio-1.3.1073.dmg	148.66 MB	0878b305
Ubuntu 16	♣ rstudio-1.3.1073-amd64.deb	124.07 MB	6d71c5ff
Ubuntu 18/Debian 10		126.78 MB	86be9352
30/3/2022 30/3/2022	★ rstudio-1.3.1073-x86_64.rpm fbdincaslan	146.95 MB	01abb3d8

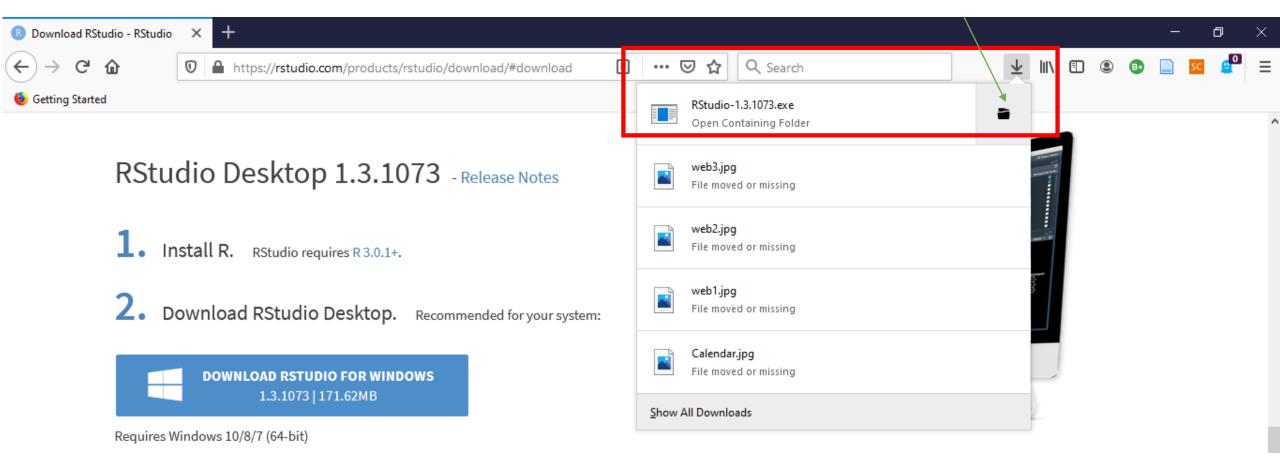


Click for download. Then save the downlaoded file to run.

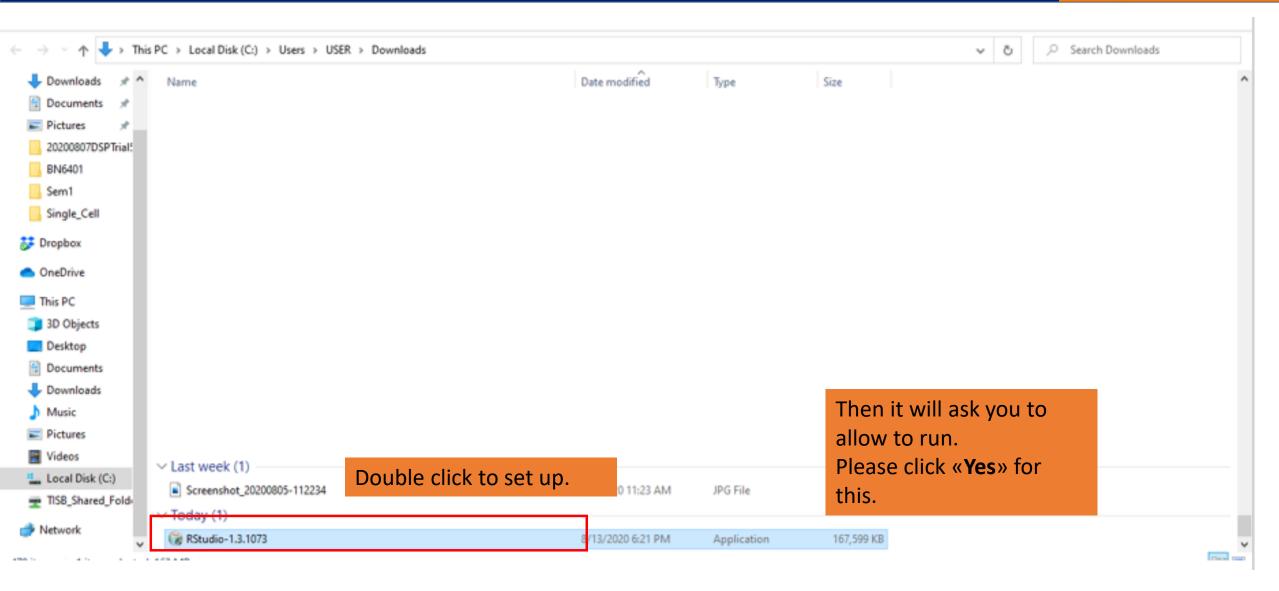




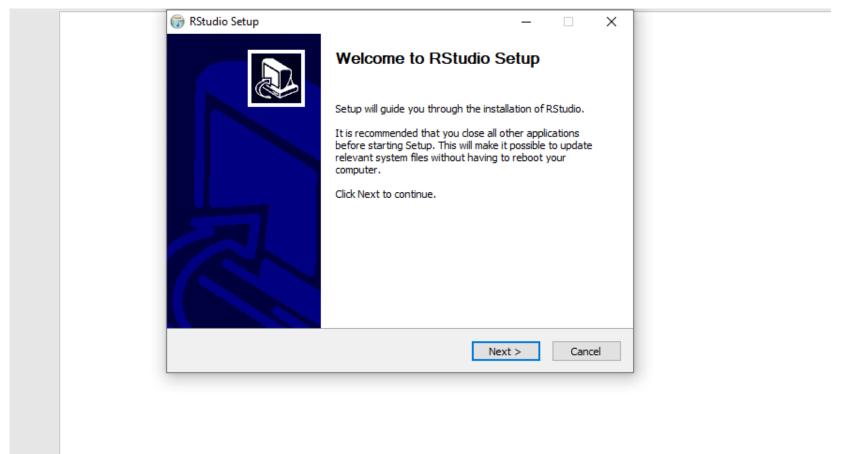
It is downloaded. Click the file icon to open the file location to run Rstudio.







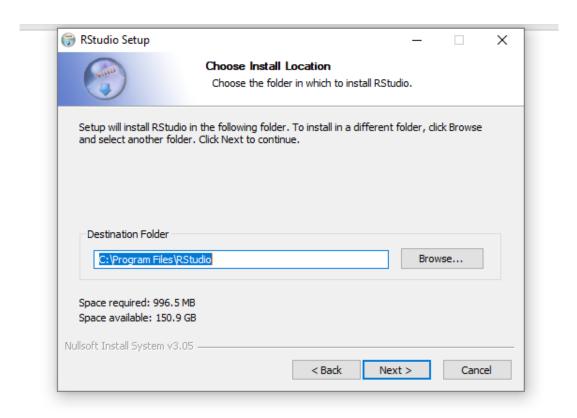






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t folder, click Browse	
Browse	
	Browse

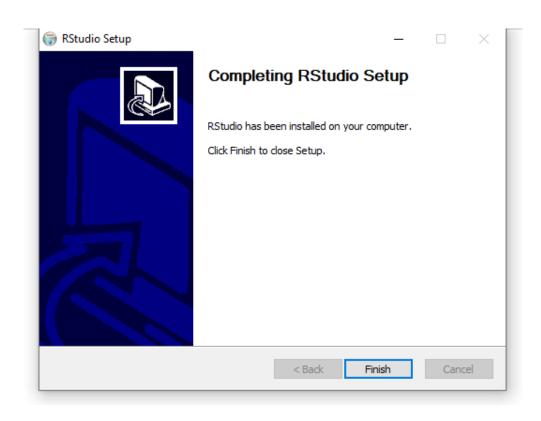






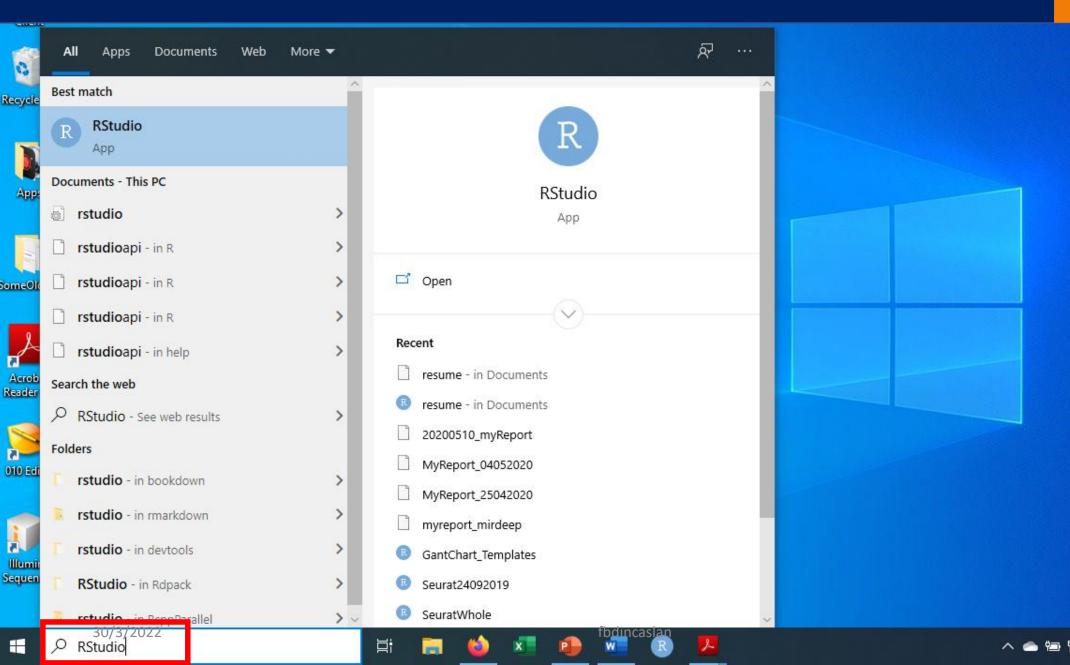
RStudio Setup		_		$\times$
	Installing Please wait while RStudio is being installed.			
Extract: libGLESV2.dll				
Show details				
Nullsoft Install System v3.05				
	< Back Next	>	Cano	el





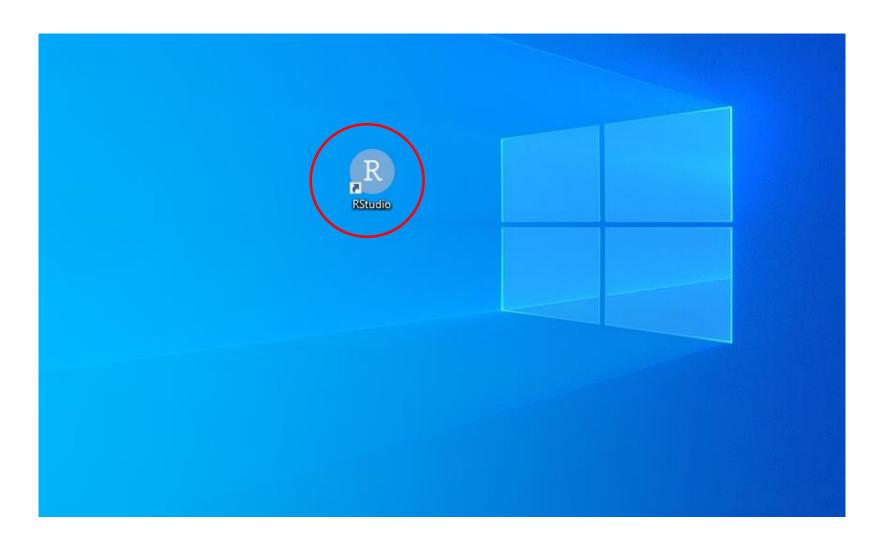
## CREATE A SHORTCUT IN YOUR DESKTOP (If you havent created, for easy access)





## **CREATE A SHORTCUT IN YOUR DESKTOP**

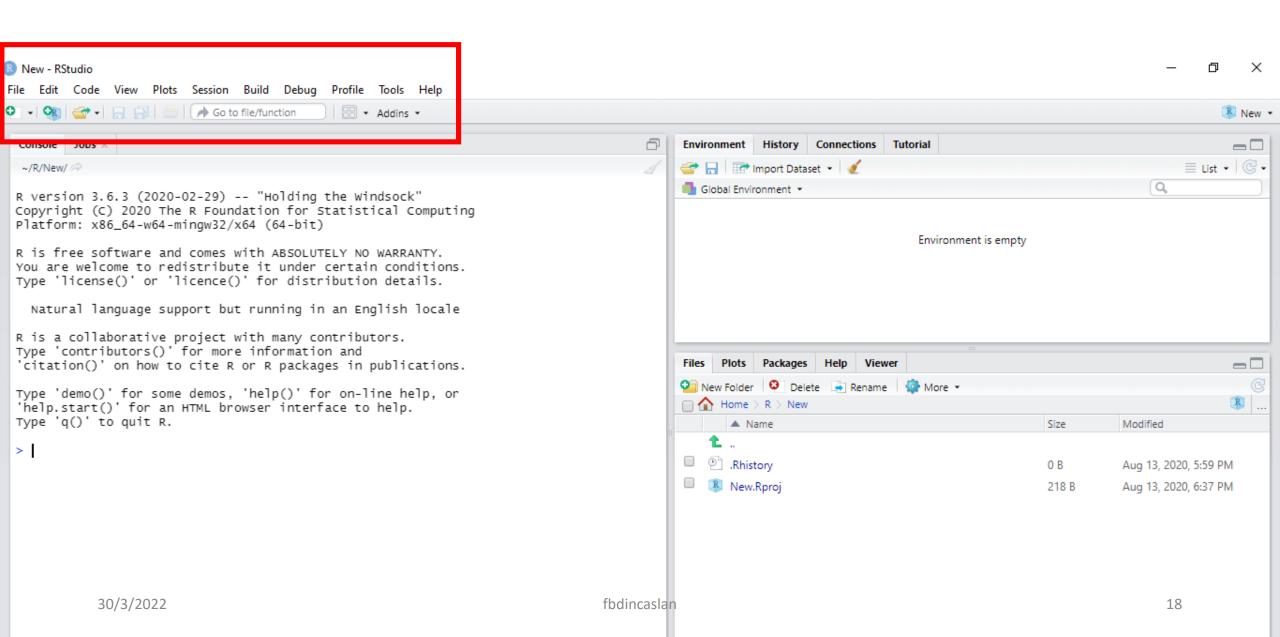




Then, left click twice to open.

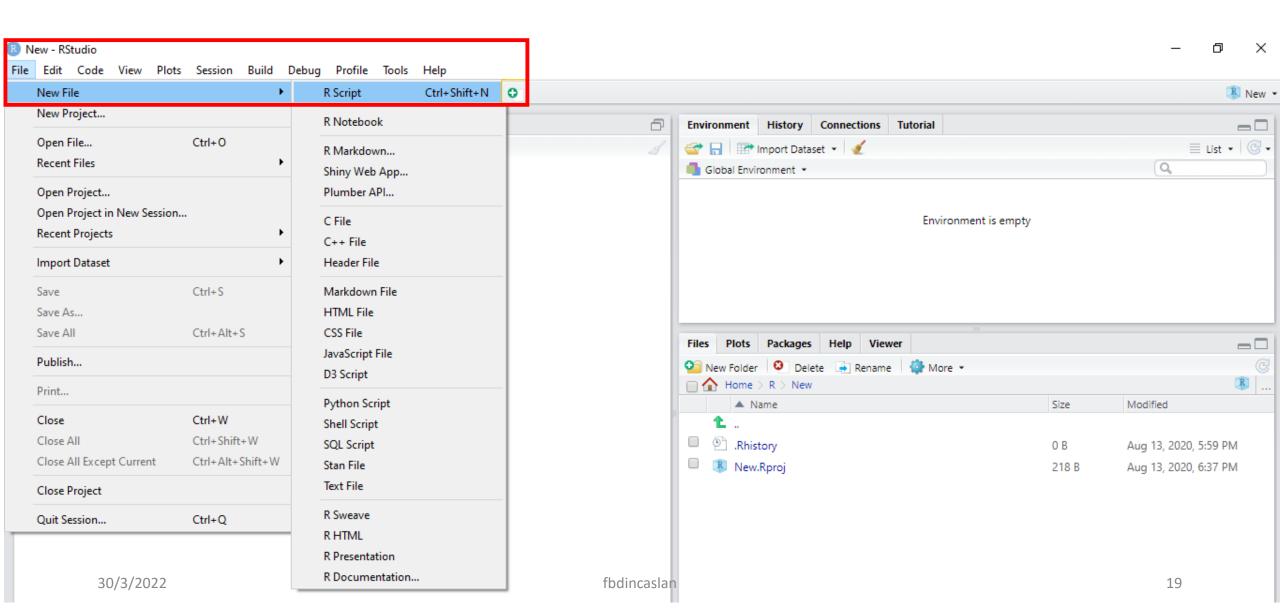
#### **GETTING USED to RSTUDIO**





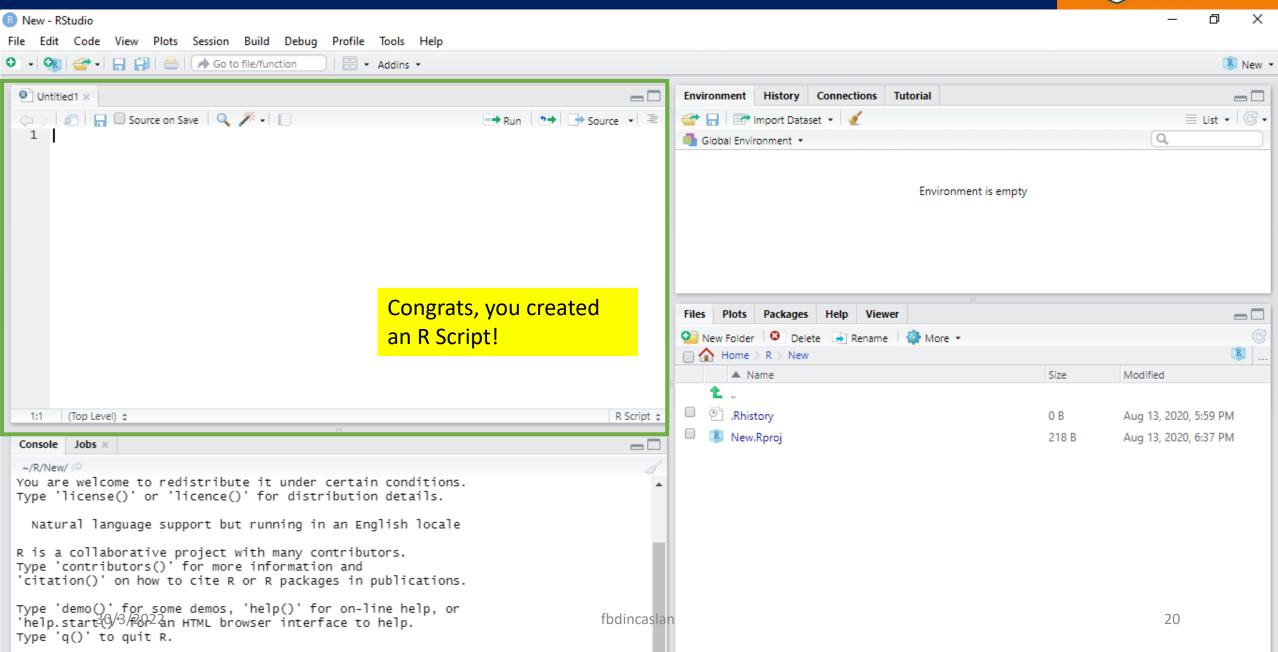
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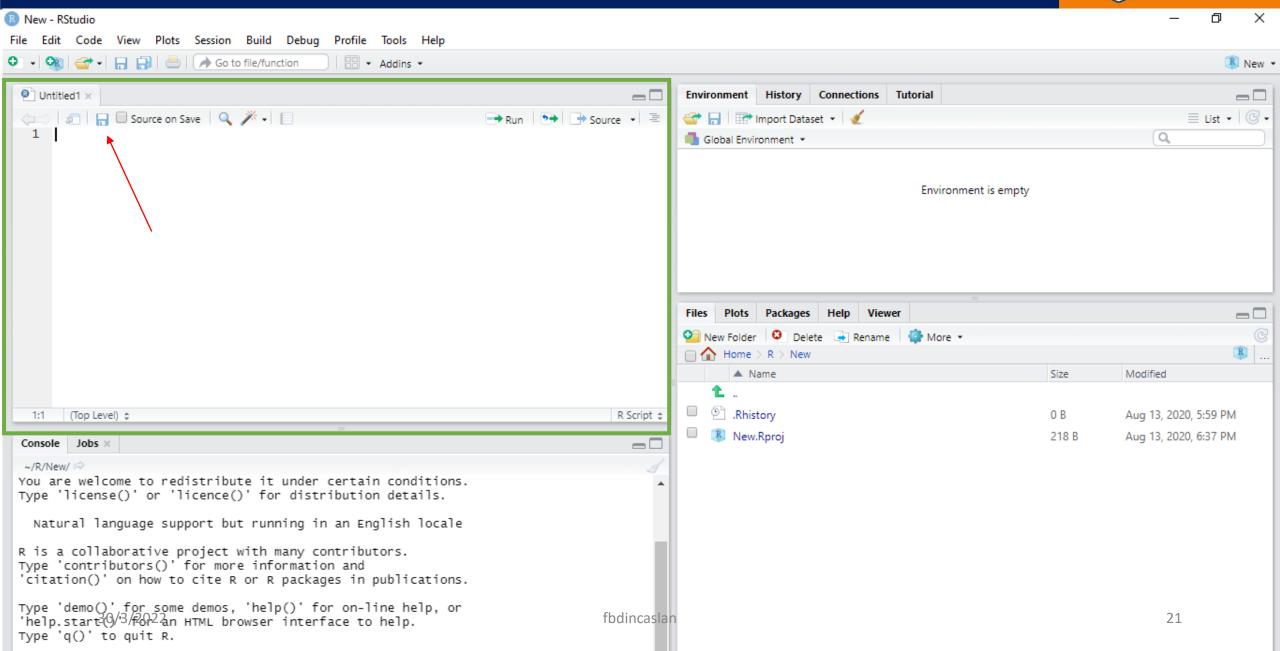
#### **GETTING USED to RSTUDIO**

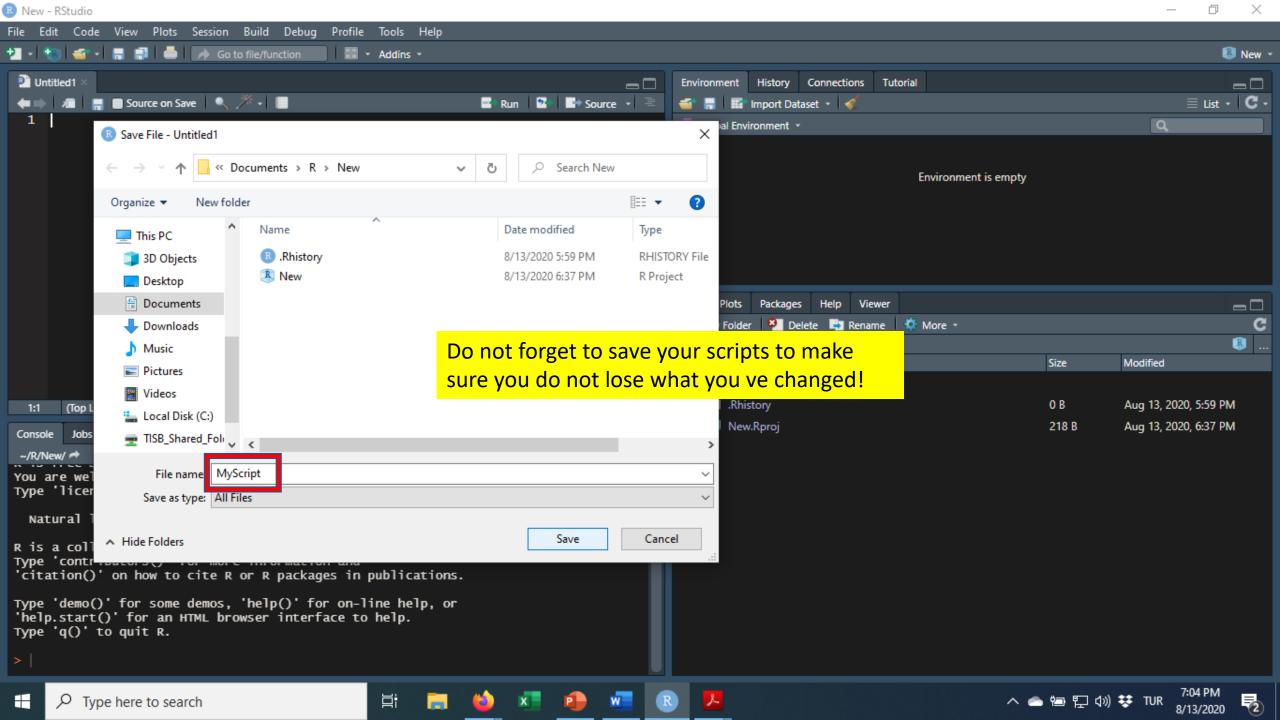




#### **SAVE THE SCRIPT**

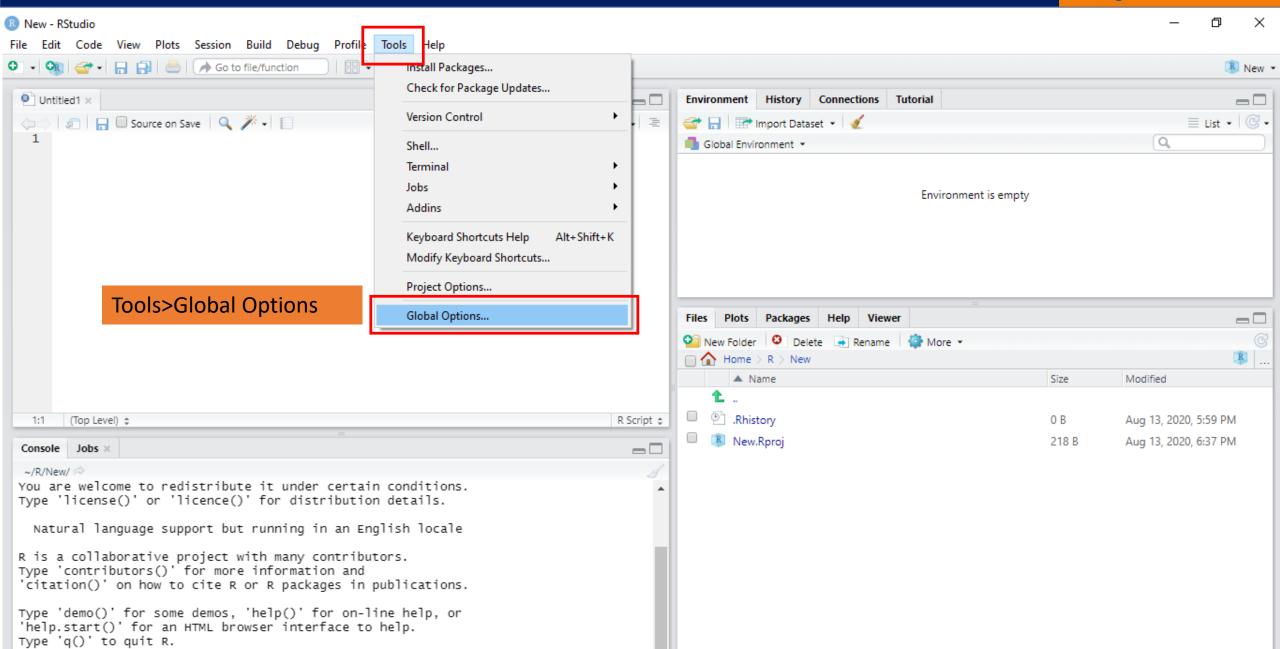






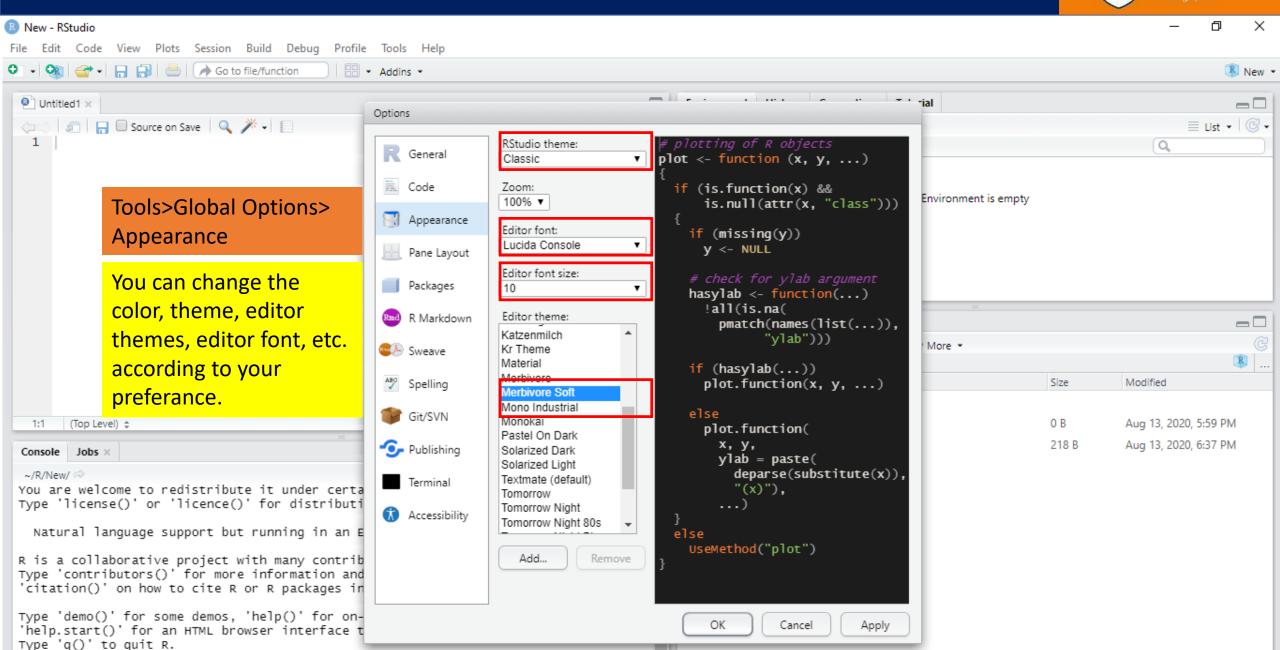
#### **HOW TO PERSONALIZE**





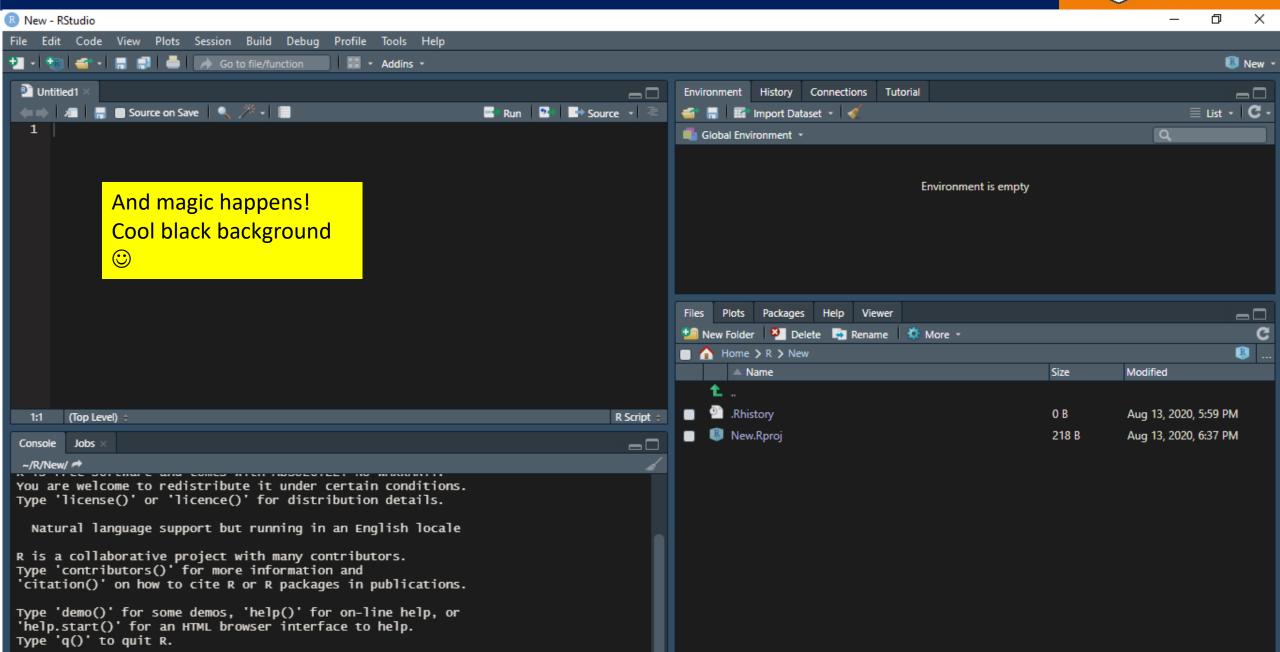
#### **HOW TO PERSONALIZE**



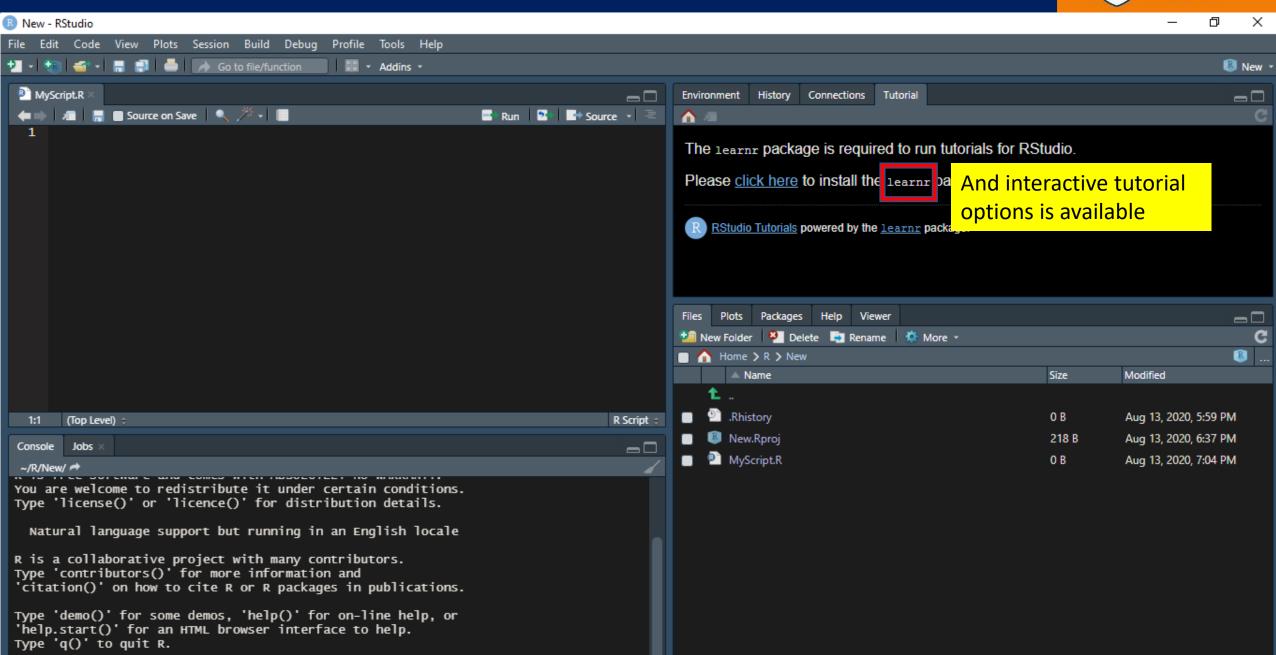


#### **HOW TO PERSONALIZE**

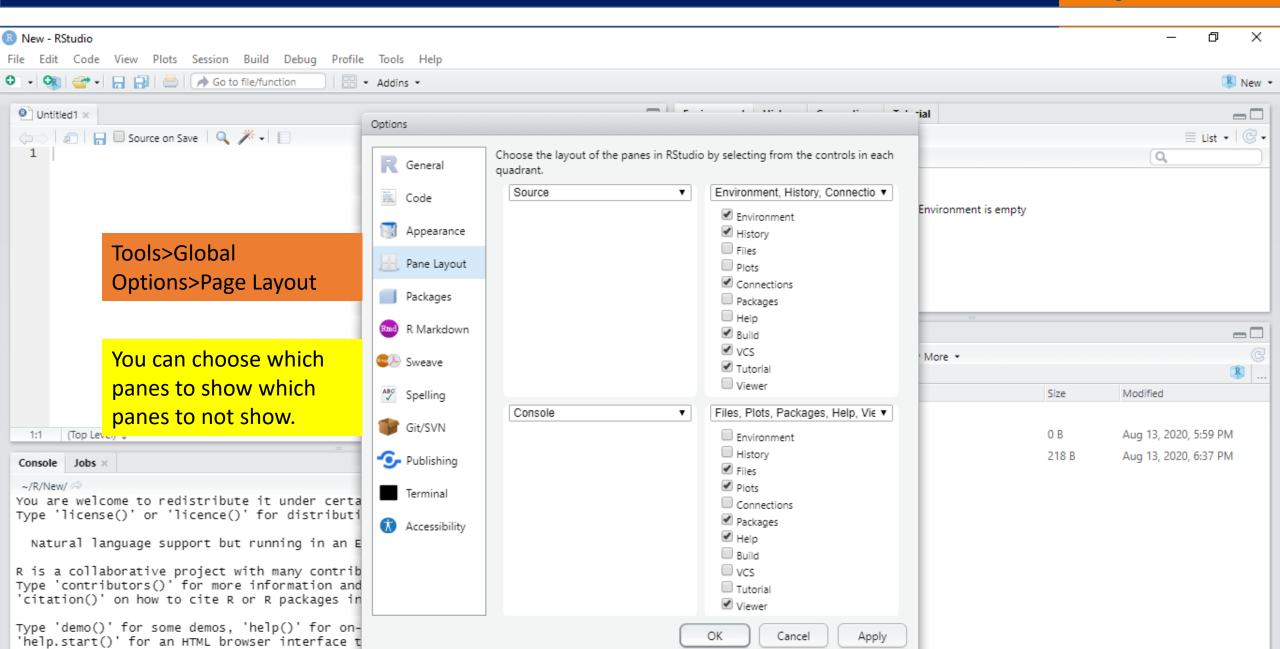




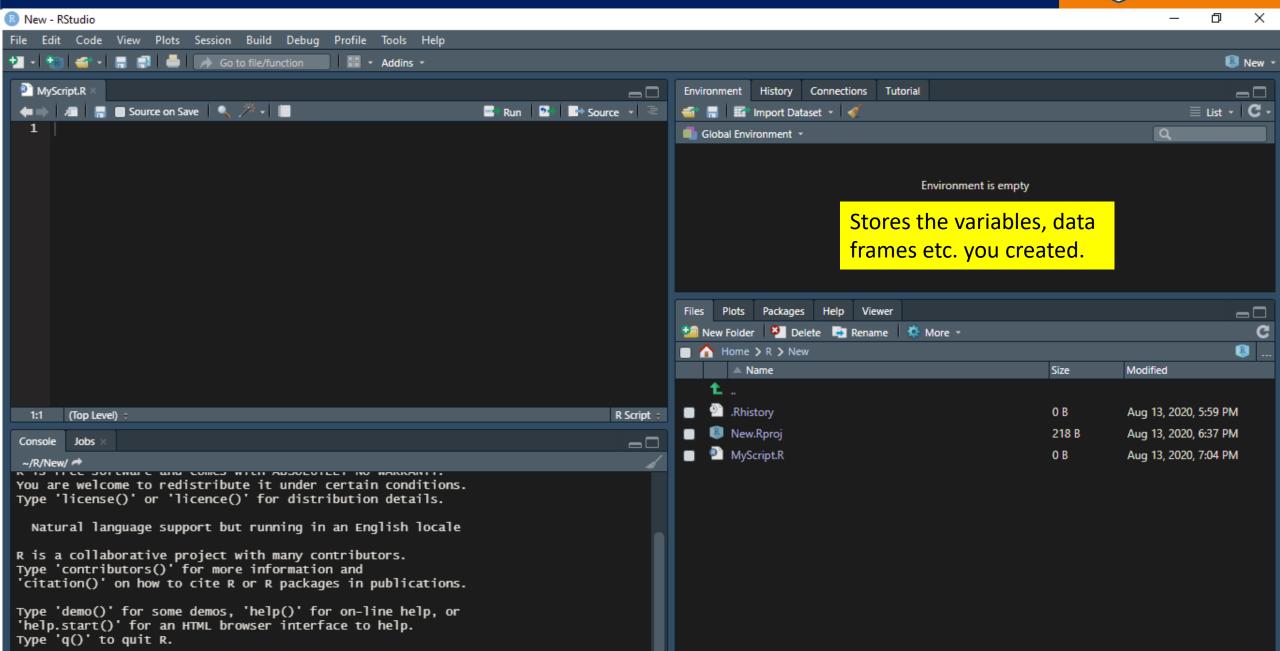




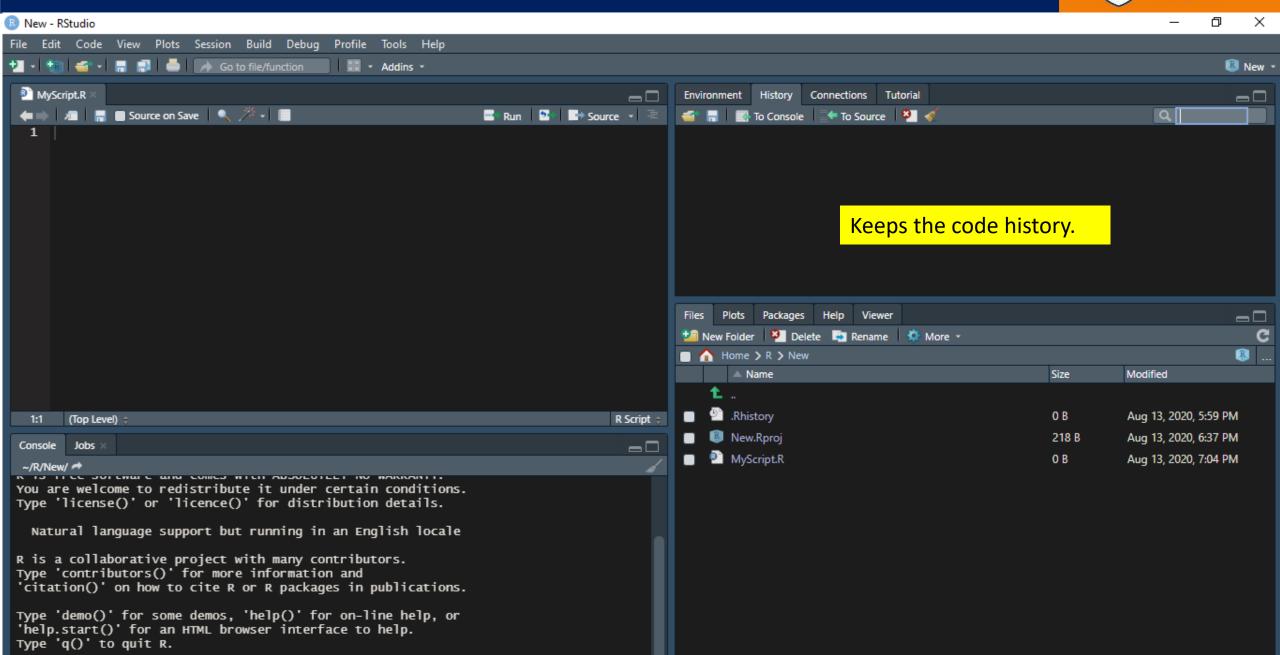




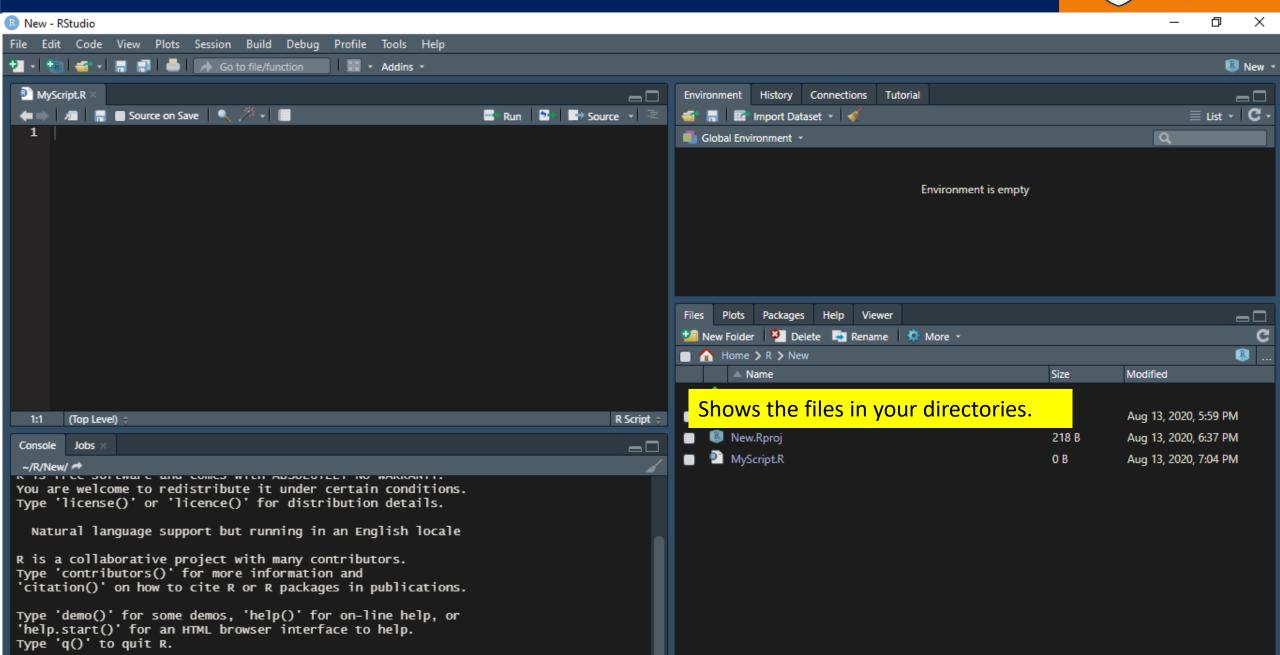




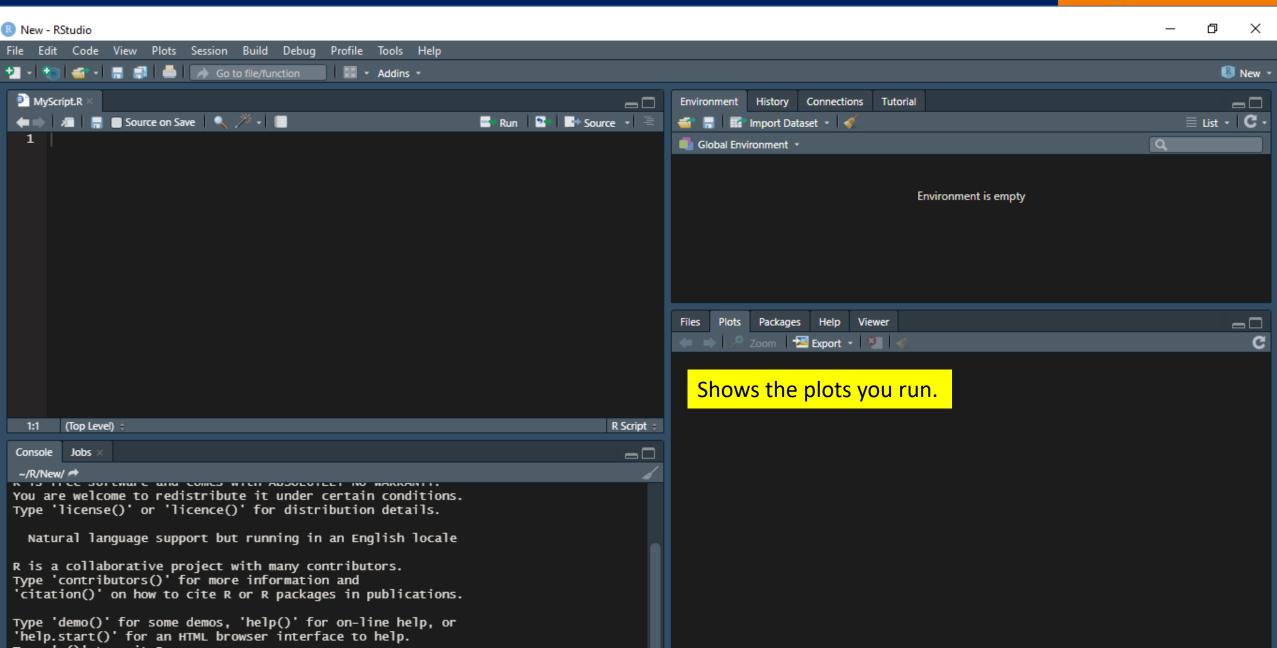




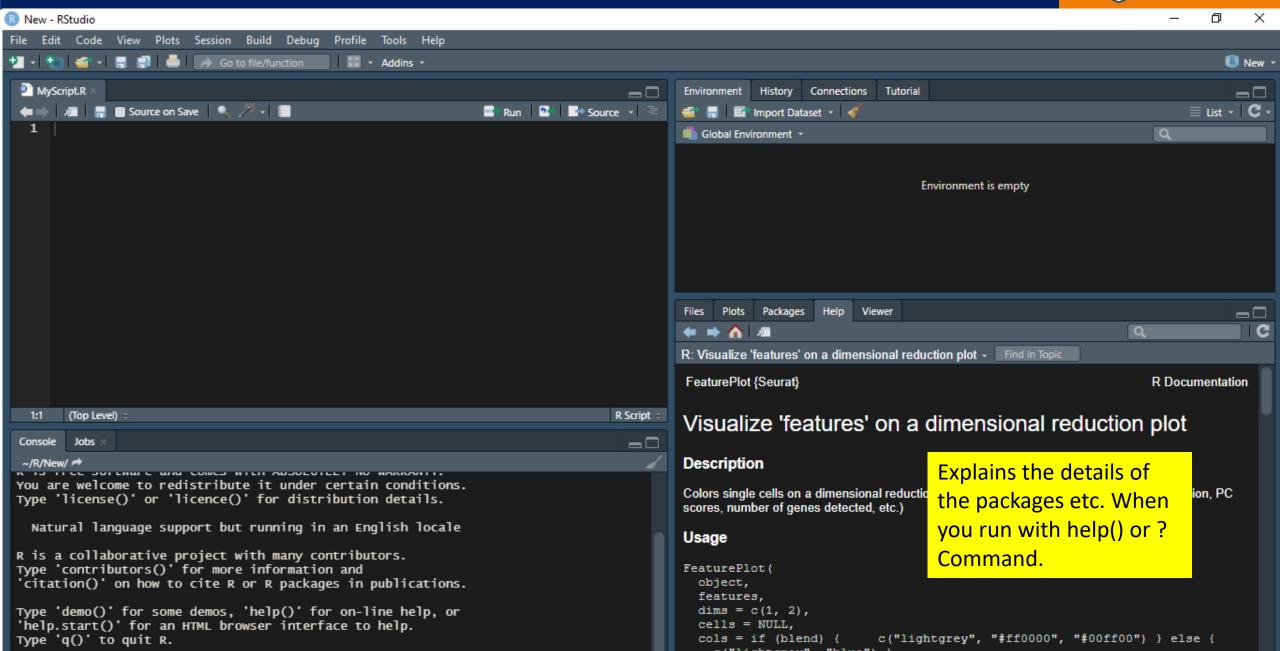




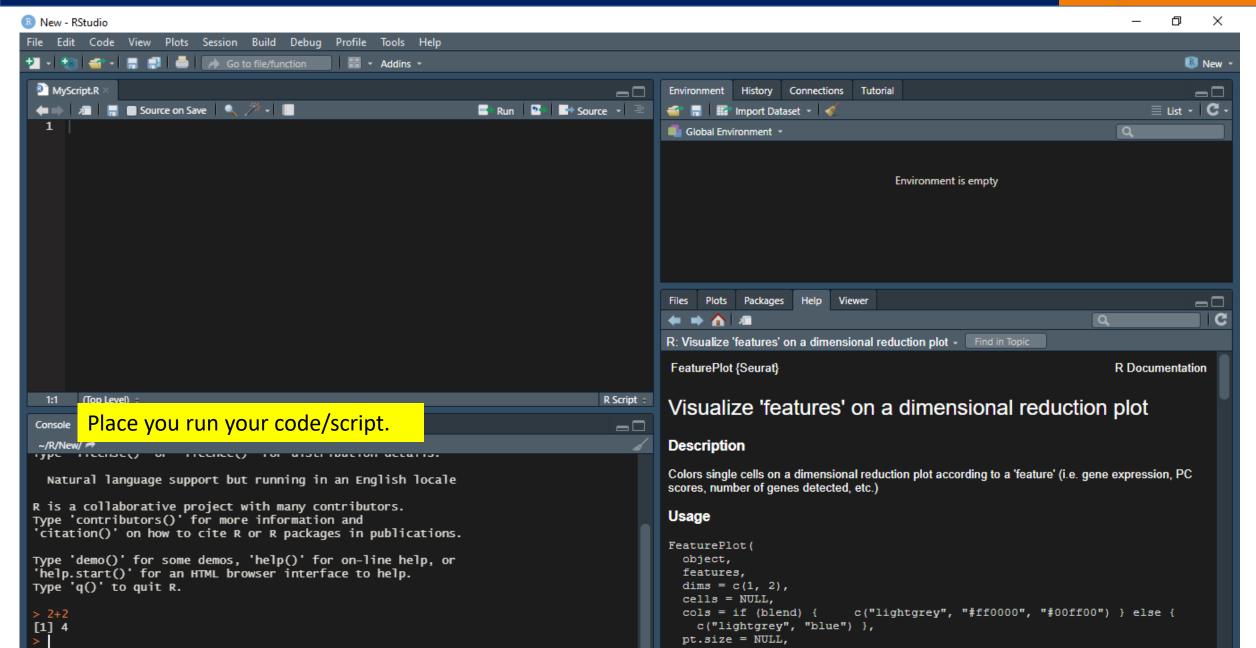






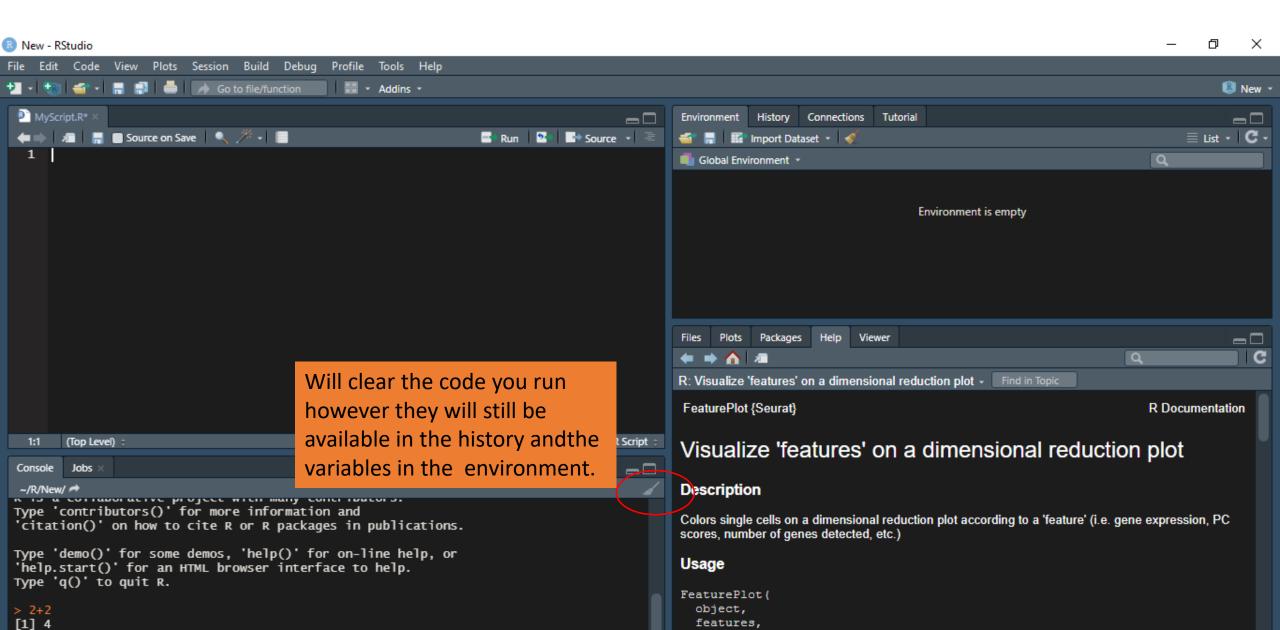






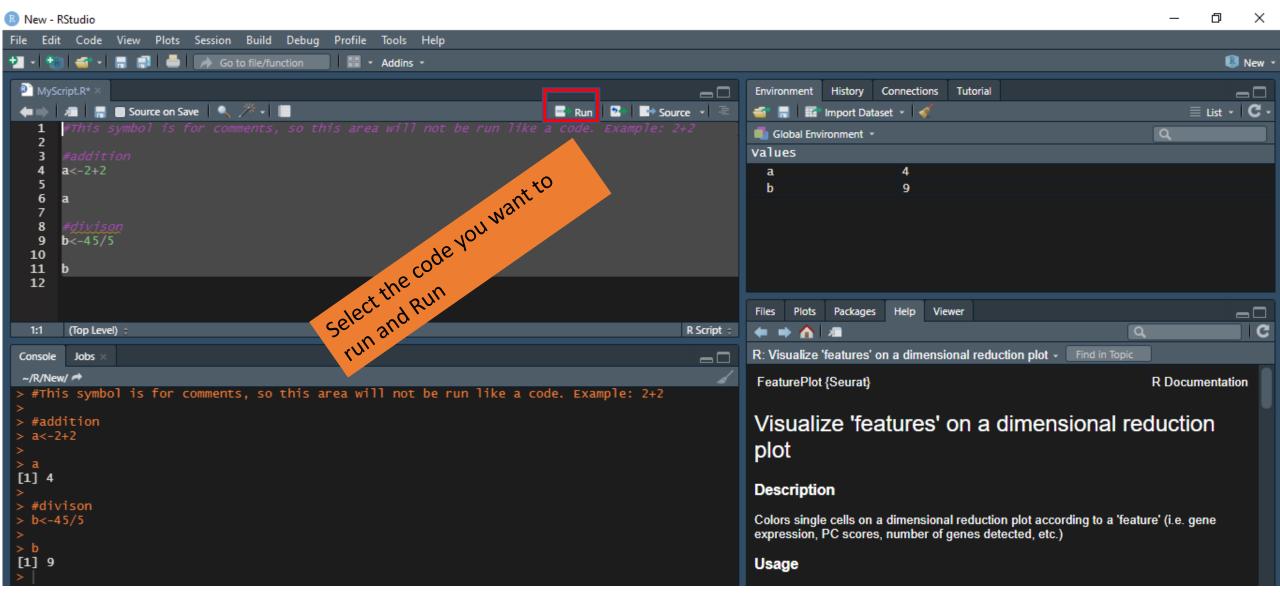
## **CLEAR CONSOLE (Ctrl-L)**





## **RUNNING A SCRIPT (Ctrl+Enter)**

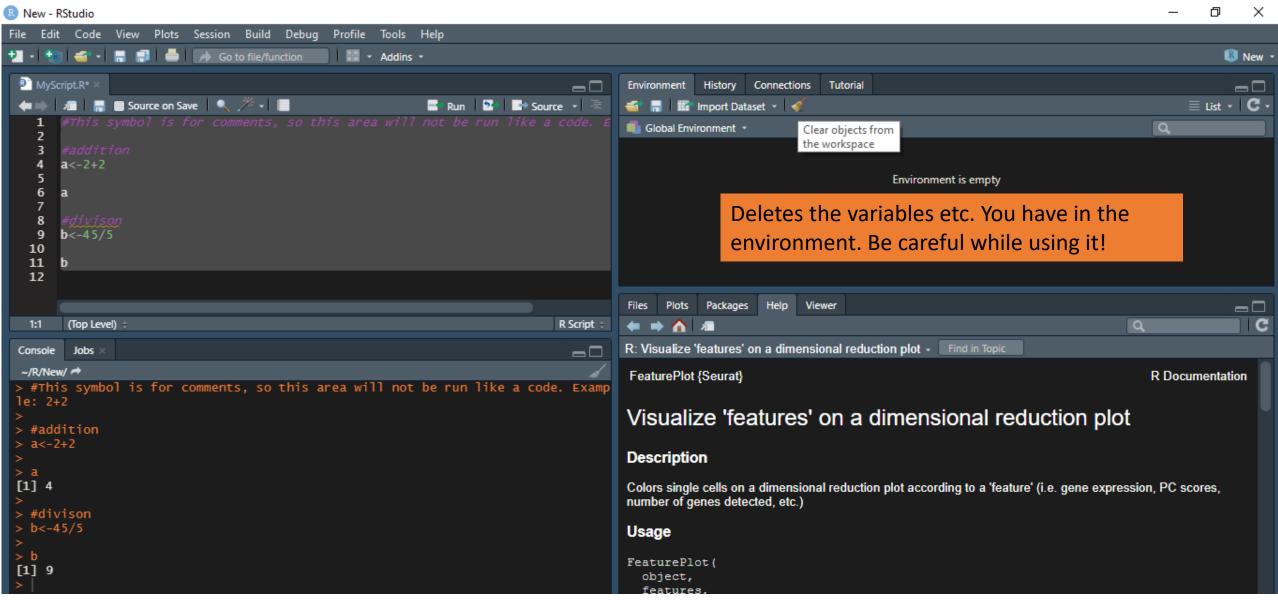




#### **CLEAR ENVIRONMENT**



36

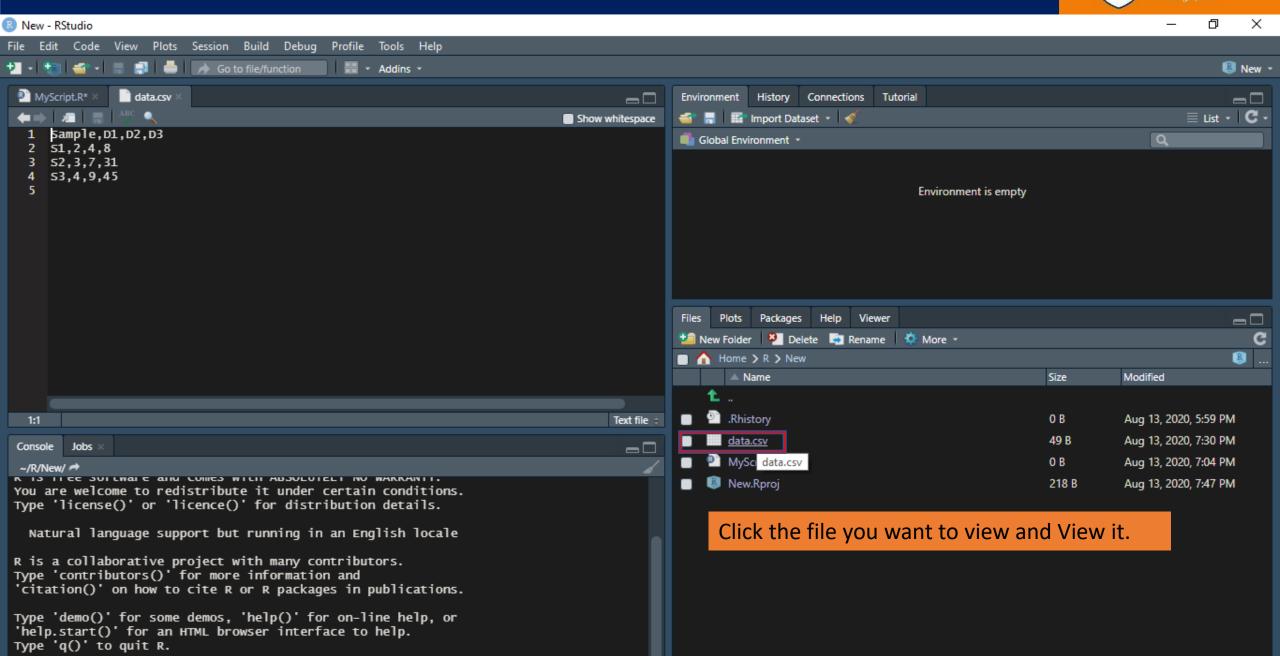


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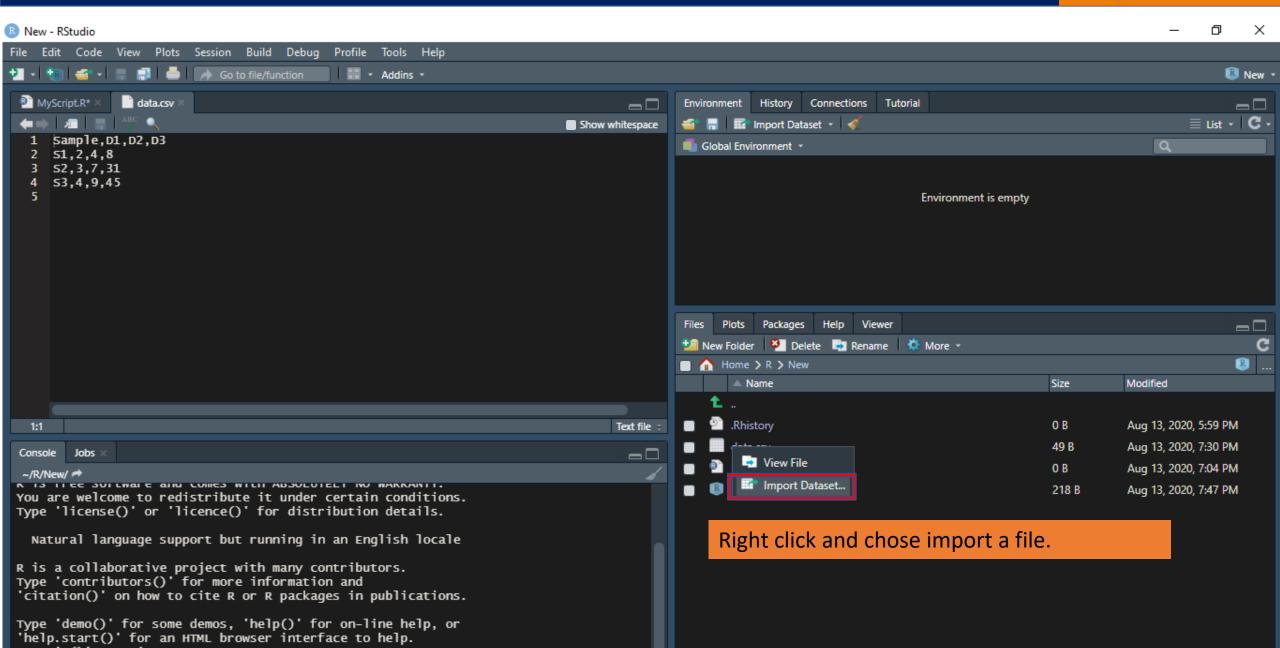
### **VIEWING A FILE**





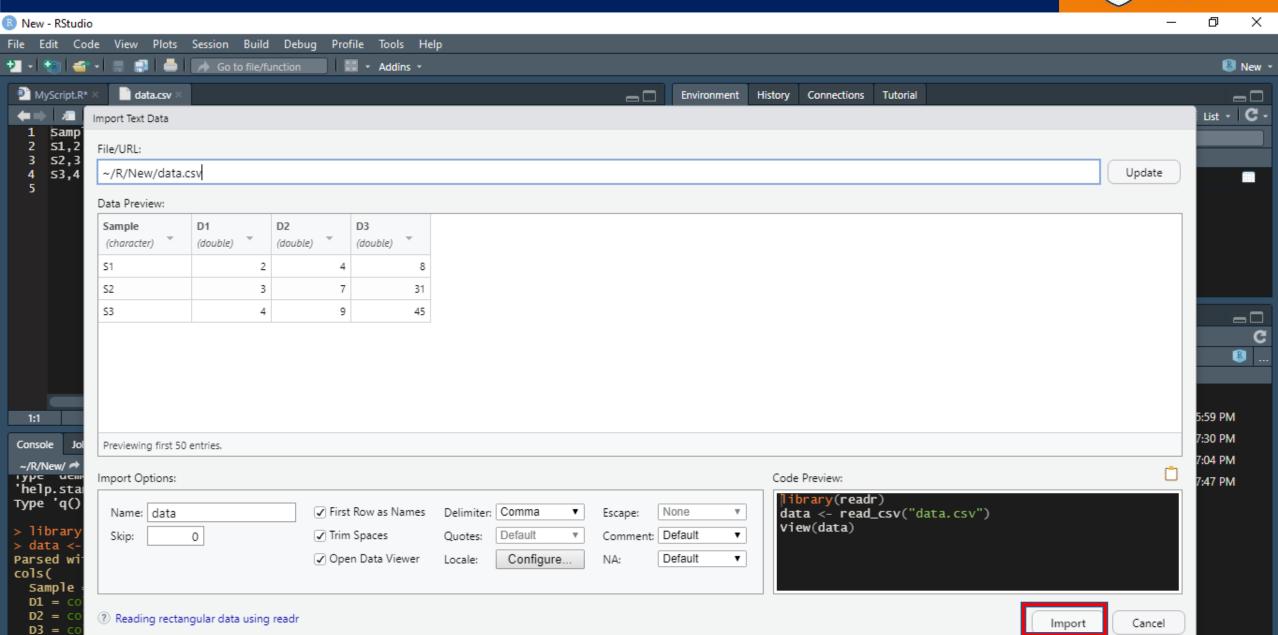
### **IMPORT A FILE**





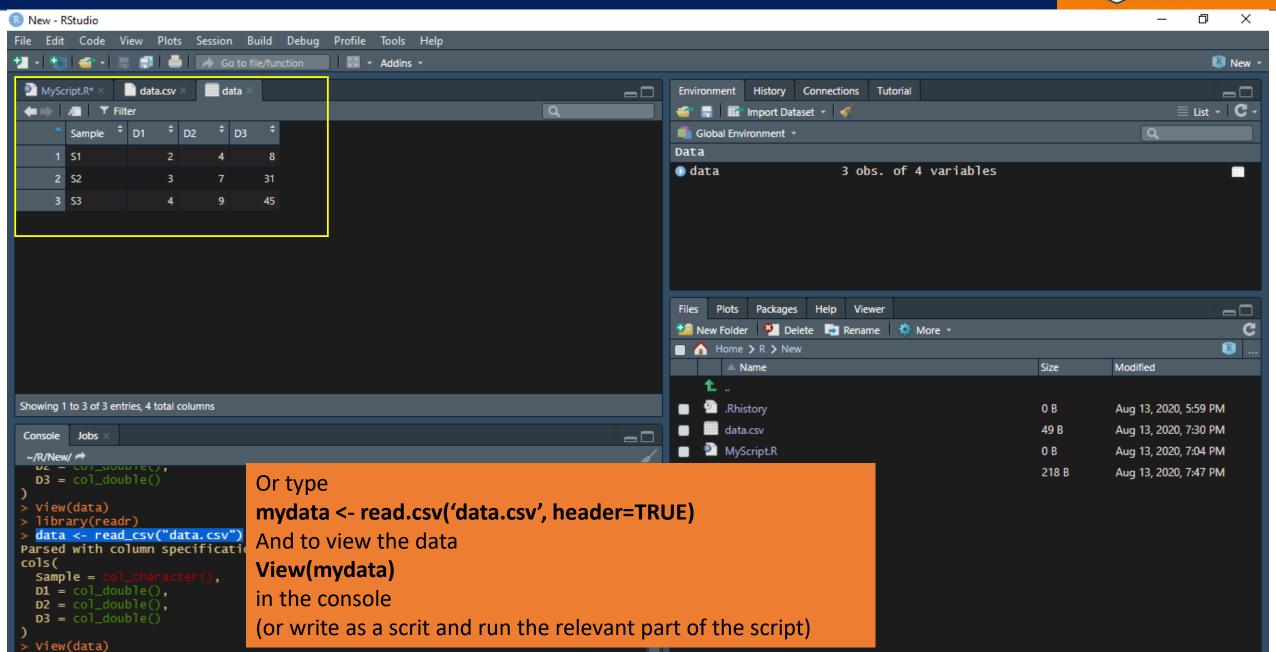
### **IMPORT A FILE**





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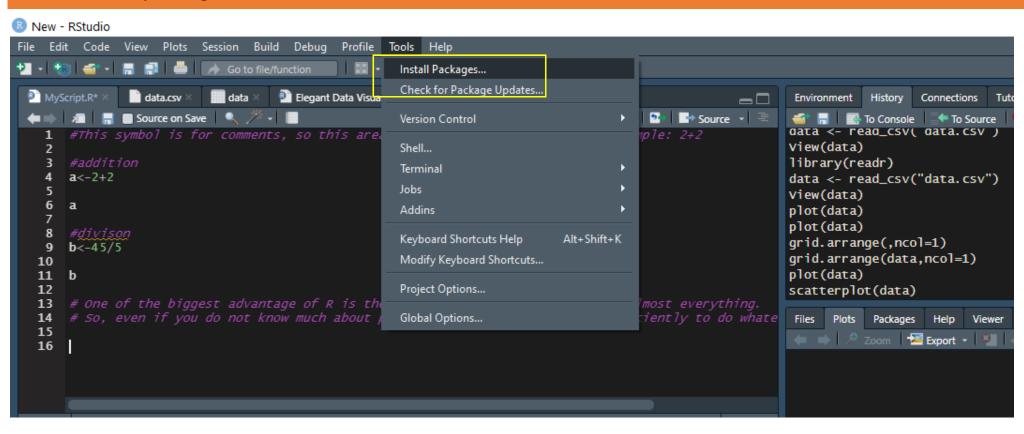
#### **PACKAGES**



One of the biggest advantages of R is there is a package or function for almost everything.

So, even if you do not know much about programming, you can use them efficiently to do whatever you want to do.

#### Tools>Install.packages>car



There are two main platforms to download packages:

- CRAN (which is already available when you download R/Rstudio)
- Bioconductor (google the name of the packge and find how to dowload)

### **PACKAGES**

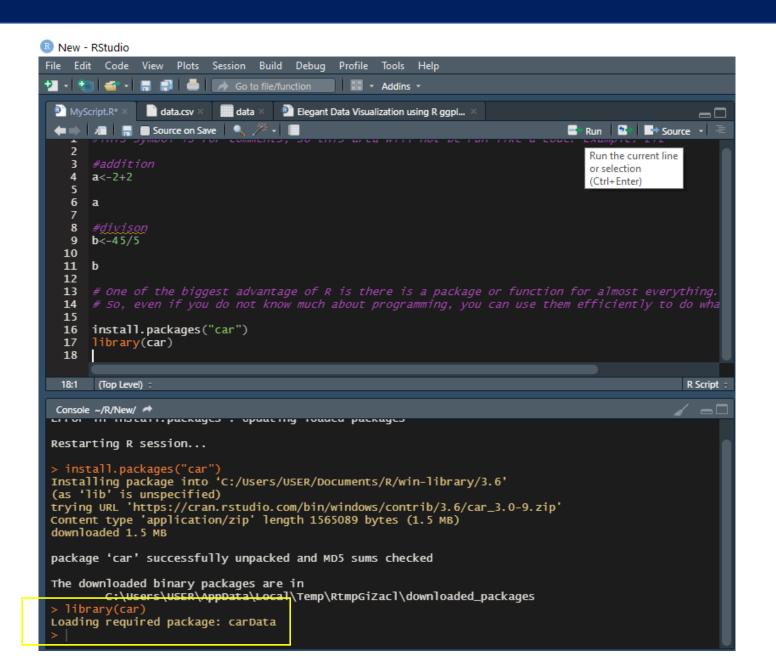


### **PACKAGES**



#### LOADING THE PACKAGE





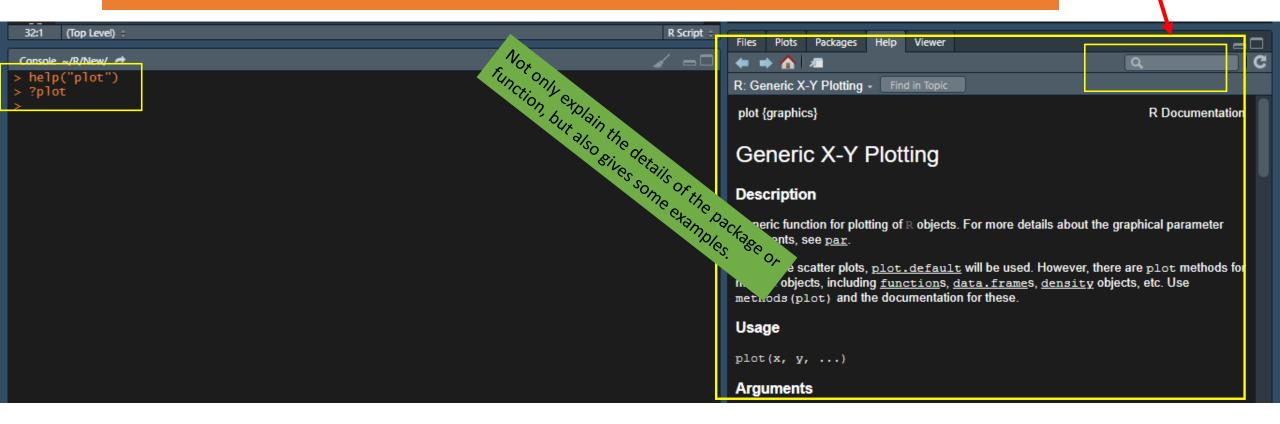
### **HELP FUNCTION**



If you are not sure how to use the package (i.e. the parameters you can change, etc.), you can call for a help:

help(«name of the function»)
?nameofthefunction

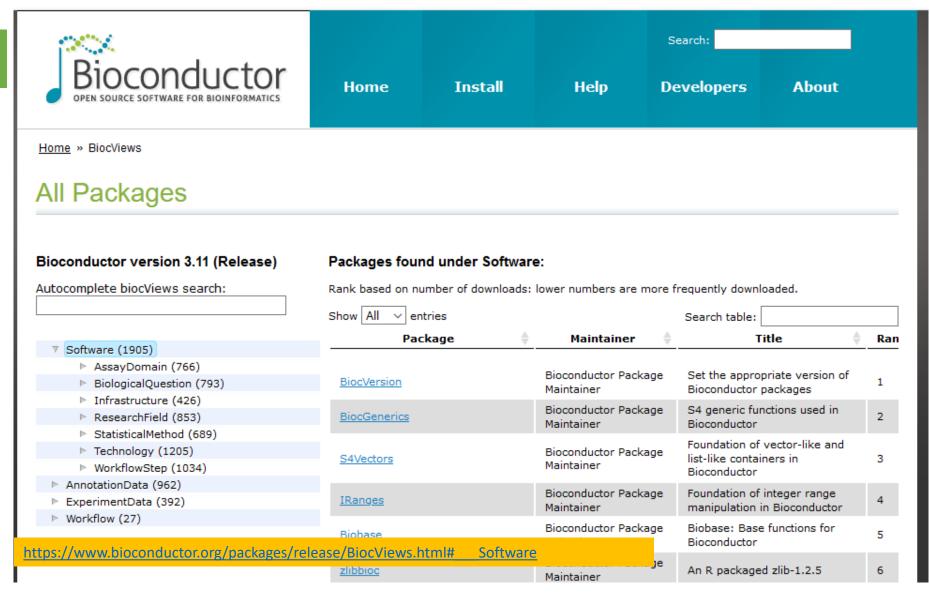
Or you can simply type of the function under the Help tab seacrh button to see the relevant R documentation of that function!!!



#### **BIOCONDUCTOR**

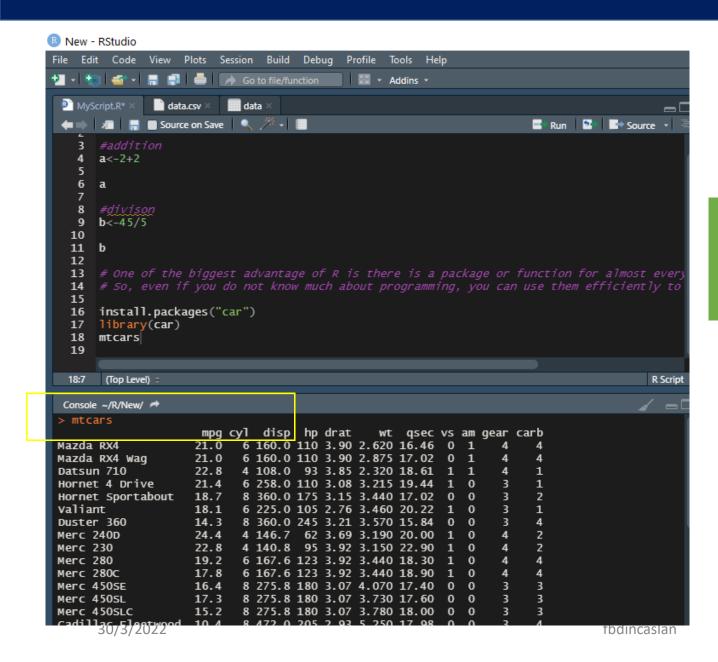


~ 2000 packages ready to download for various analysis



#### **EXAMPLE DATA**



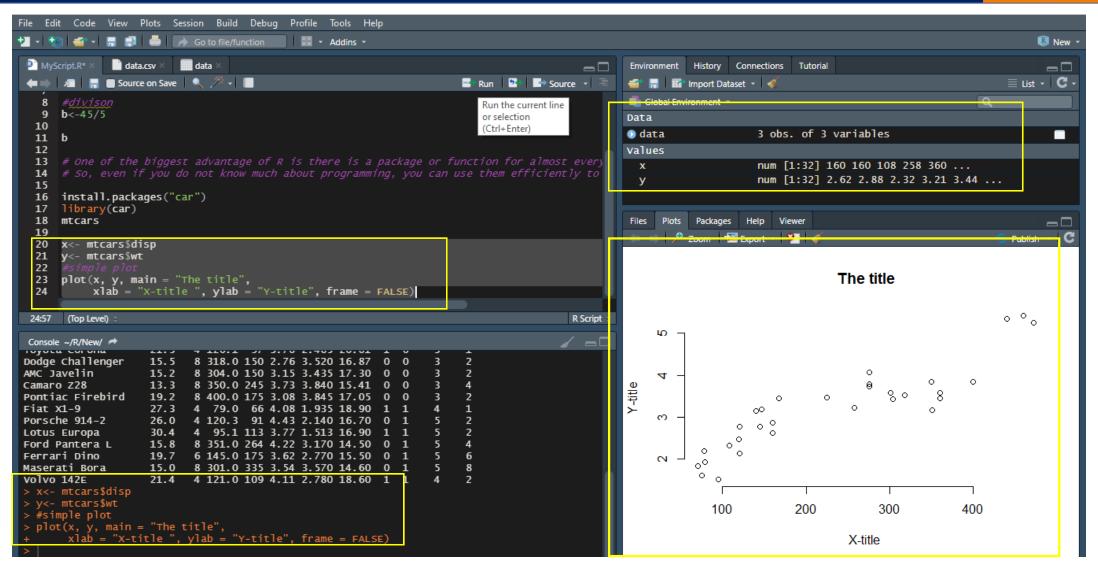


Lets load the mtcars data in the car library.

Always check the data by calling it (simply put the name of the data and run it in the console such as mtcars or the data you imported before).

#### **EXAMPLE DATA**





## WORKING DIRECTORY – getwd()



If your working directory is different that the files you are keeping, you either need to call these files by calling the directories specifically or you simply change your working directory to the folder that you want to keep your analysis.

To know which working directory you are working right now, type: **getwd()** 

```
#working directory

betwd()

28:1 (Top Level) ÷

Console ~/R/New/ →

> getwd()

[1] "C:/Users/USER/Documents/R/New"

> |
```

# WORKING DIRECTORY – setwd()



To change your working directory, please use:

setwd()

```
27 #working directory
28 getwd()
29 setwd("C:/Users/USER/Documents")
30 31 getwd()
32 | (Top Level) † R Script †

Console -/ *
> setwd("C:/Users/USER/Documents")
> getwd()
[1] "C:/Users/USER/Documents"
> |
```

Can you spot the difference between the previous wd and this wd?

# WORKING DIRECTORY – setwd()



You can do it manually as well. (Go to the location you want to set via <u>Files</u>)

Files>More>Set as a working directory

