

Introduction to RStudio

(v 3.6)

Oscar Torres-Reyna

otorres@princeton.edu

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Installing RStudio

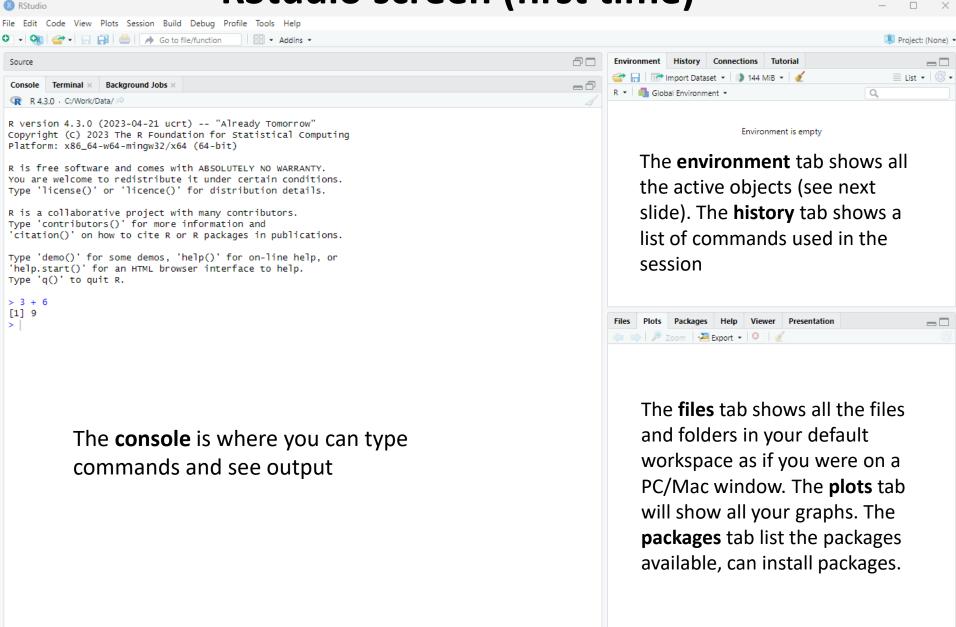
1. Download and install R, see here: https://cran.r-project.org/

 Download and install RStudio Desktop (free version), see here: https://posit.co/download/rstudio-desktop/

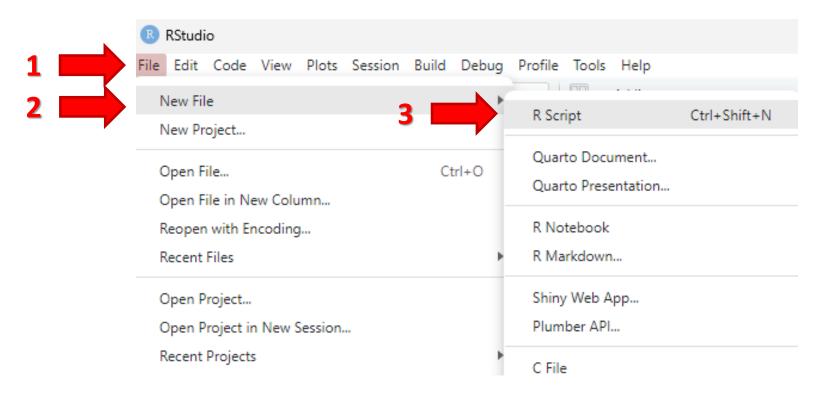
If RStudio does not recognized the latest installed version of R, see here: https://support.posit.co/hc/en-us/articles/200486138-Using-Different-Versions-of-R

OTR :

RStudio screen (first time)



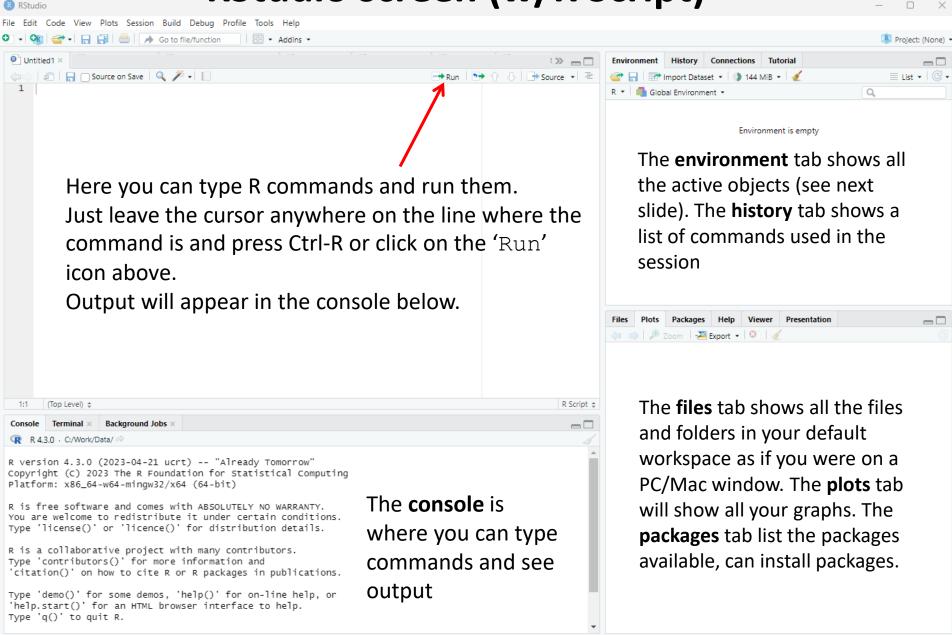
Open an R Script window



[See next slide]

OTR

RStudio screen (w/R Script)



OTR

Set working directory

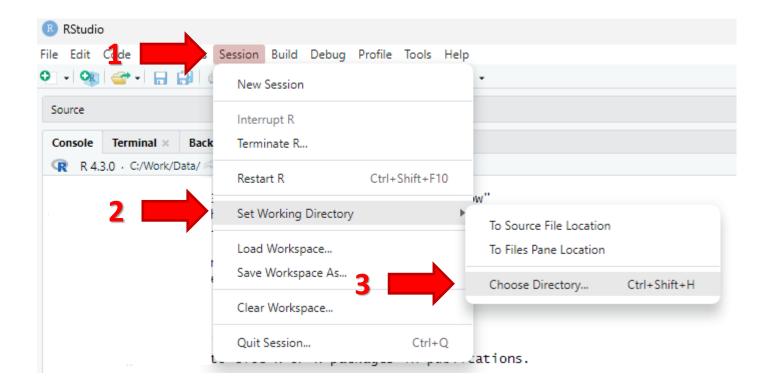
The working directory is the folder where your files are saved and where RStudio will export files. You can check the current working directory by typing the following:

getwd()

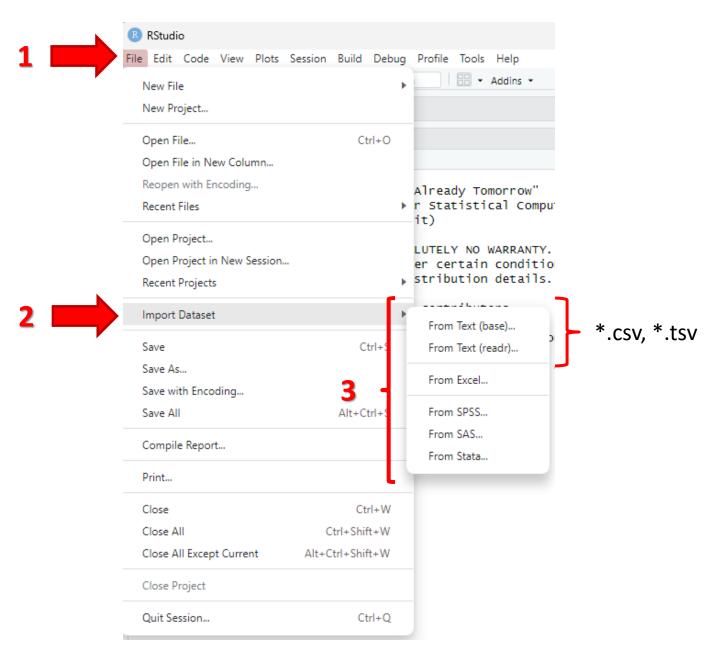
You can change the working directory by typing (if using Windows):

setwd("C:/myfolder/data")

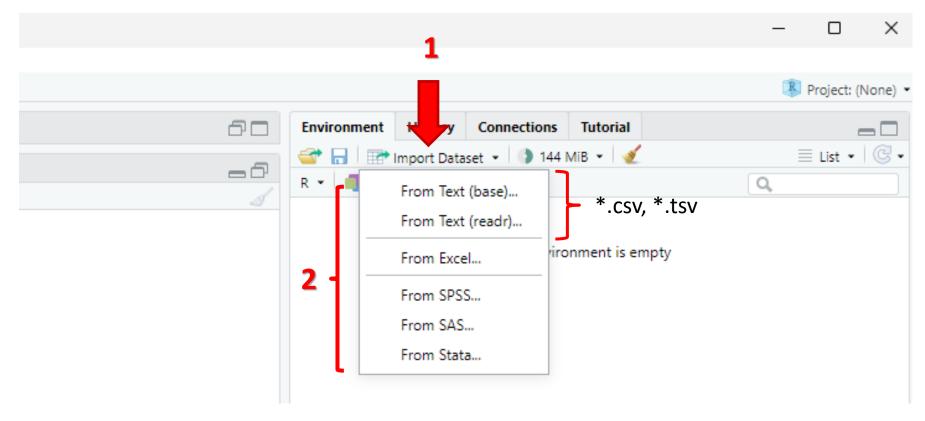
Or you can use the menu:



Import files into RStudio (1)

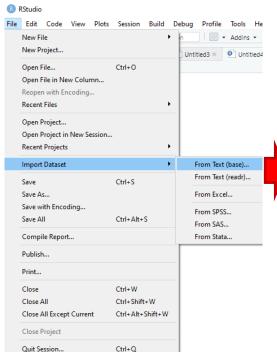


Import files into RStudio (2)

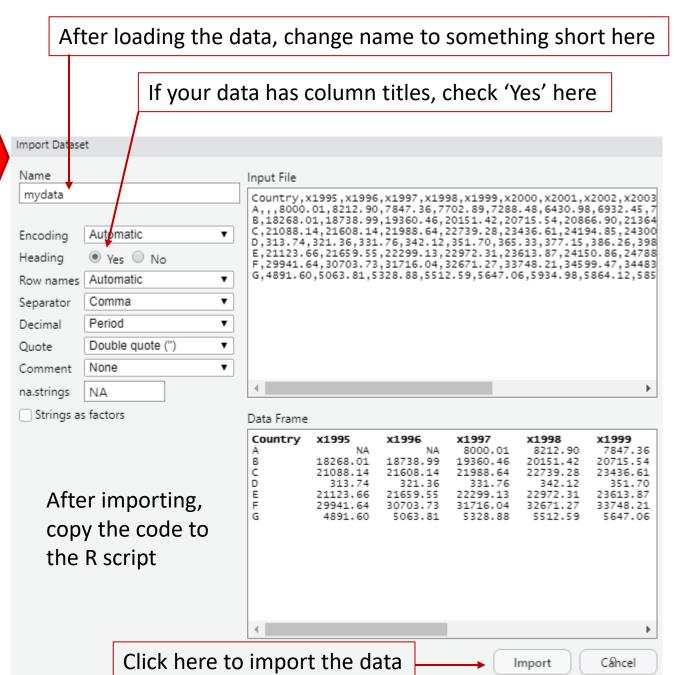


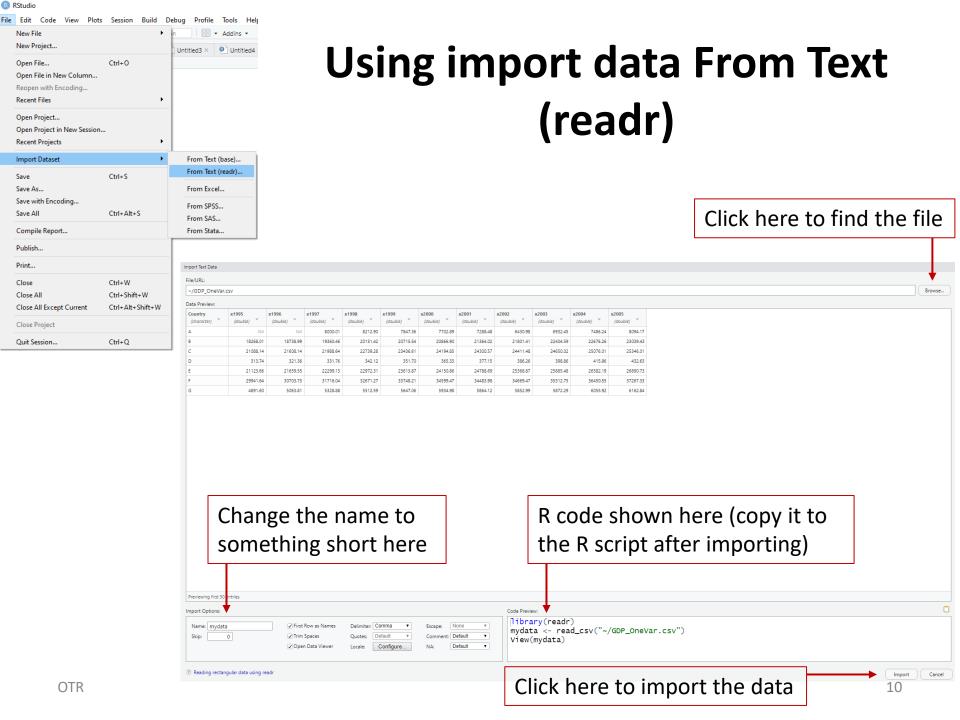
NOTE: When importing files from Excel or ASCII format (*.csv, *.tsv) make sure the data is in the format shown in slides 2 and/or 3 in this document:

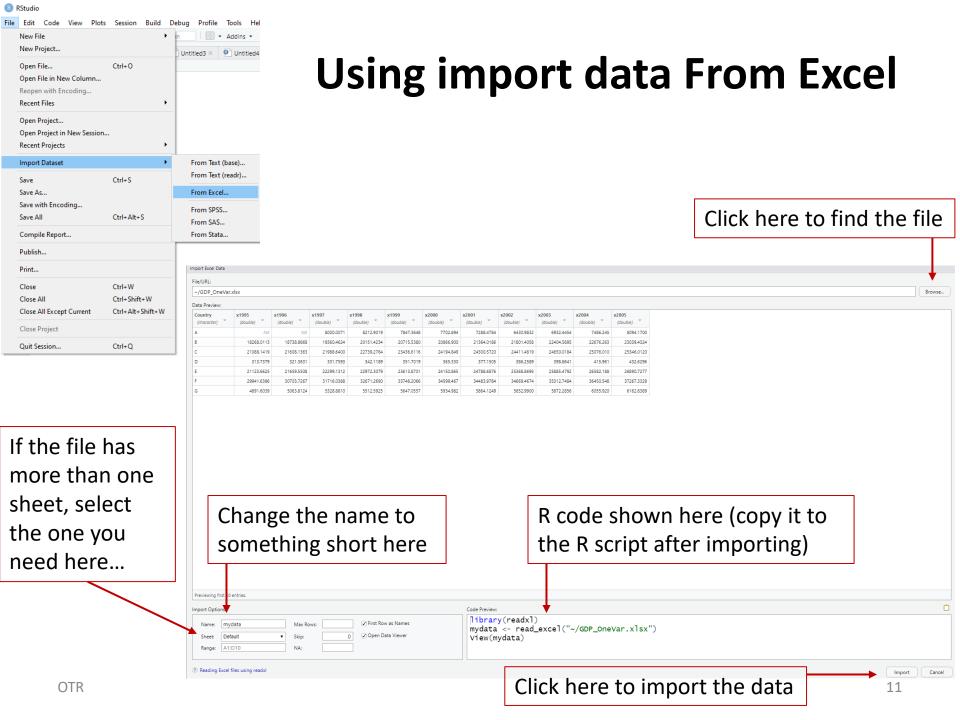
https://www.princeton.edu/~otorres/DataPrep101.pdf



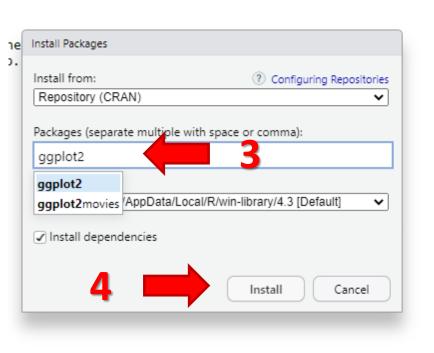


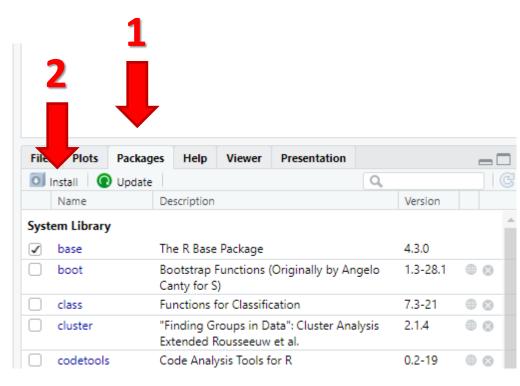






Installing a package



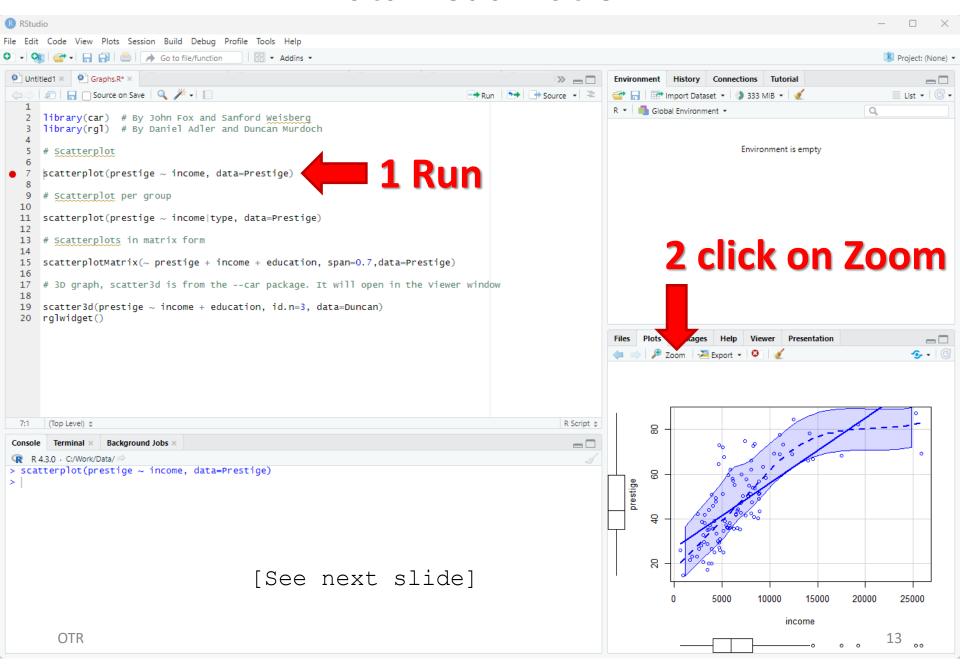


Once a package is installed, no need to install it again until a new version of R is installed.

To activate a package type

library(name of package)

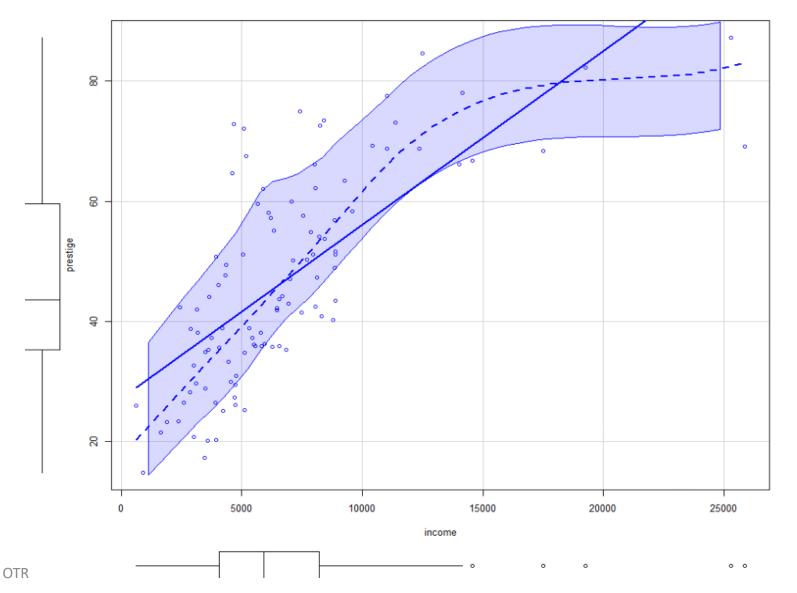
Data visualization



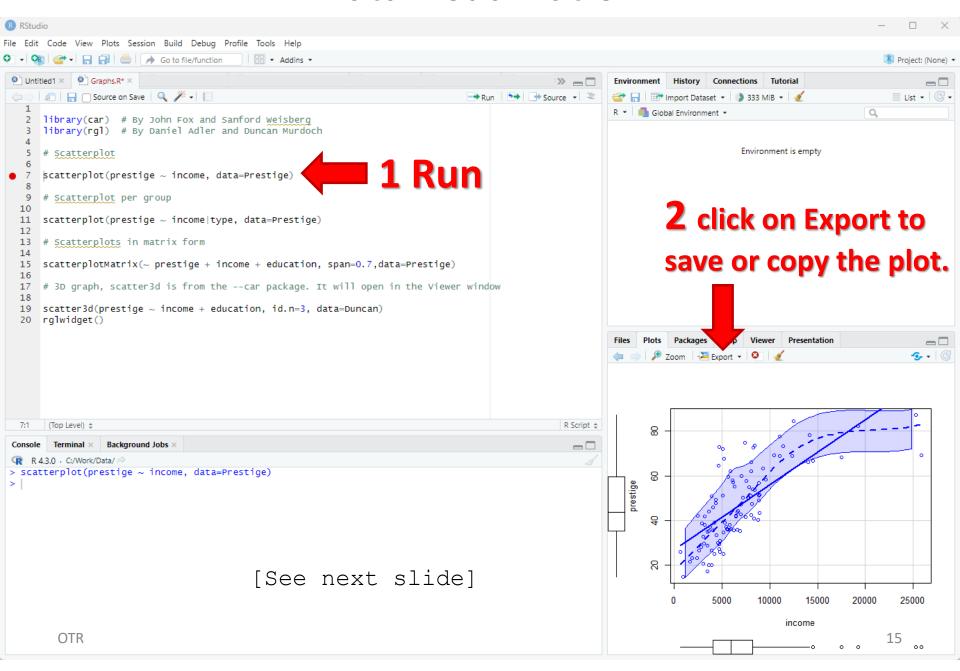
Data visualization



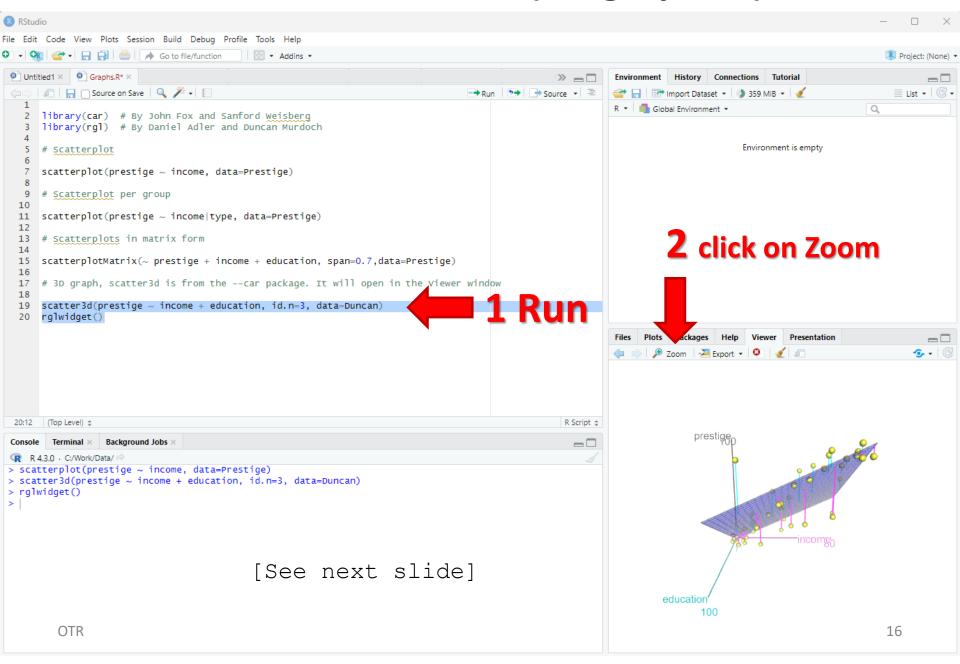
Right-click to save or copy the plot



Data visualization

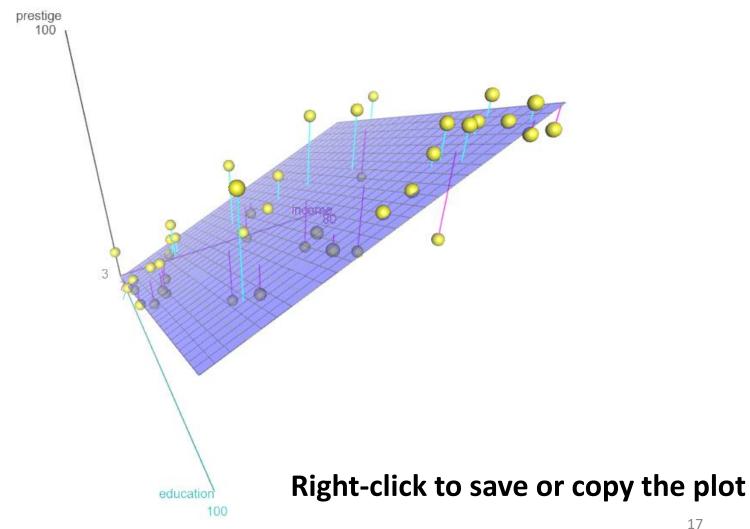


Data visualization (3D graphics)



Data visualization (3D graphics)

Use the cursor to move the graph around



OTR