## Computer lab: R & RStudio

- In this course we will perform structural network analysis with packages implemented in the R statistical software
- R is the software but we will use Rstudio as an interface
- R is an open-source project lifted by a virtual community of thousands of developers and million of users worldwide

## Why R?

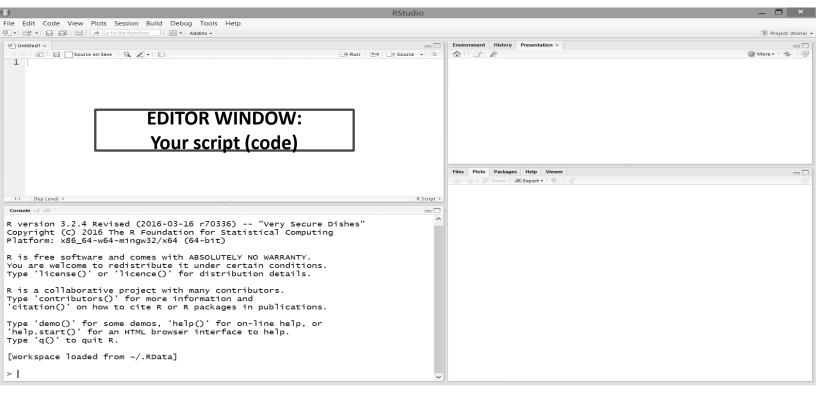
- Reproducibility R scripts
- Today R offers the most elegant and comprehensive language for the structural and dynamic analysis of networks
- It's free and contains state-of-the-art statistical and graphical routines not yet available in other software
- You can do all your analysis in R, but also data scrapping, create a webpage, or write your research paper

## Getting started with R

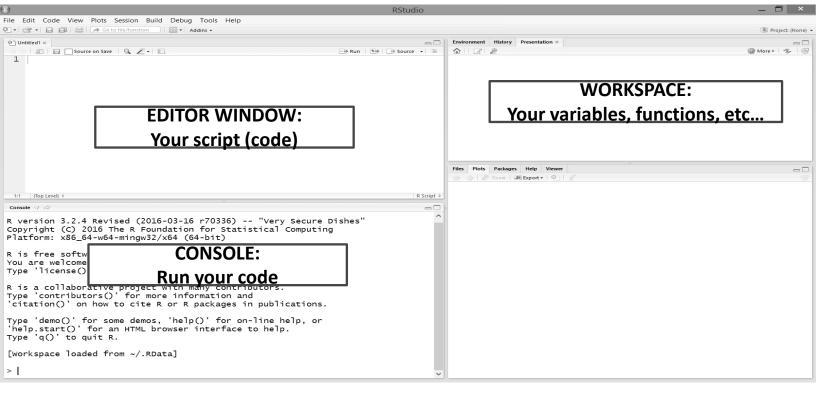
 Using R is easier than it looks like. And once you master it, you save a ridiculous amount of time



- Afraid of R? It is just a big calculator (a very smart one)
- R is case sensitive
- The # character at the beginning of a line signifies a comment, it is ignored by R

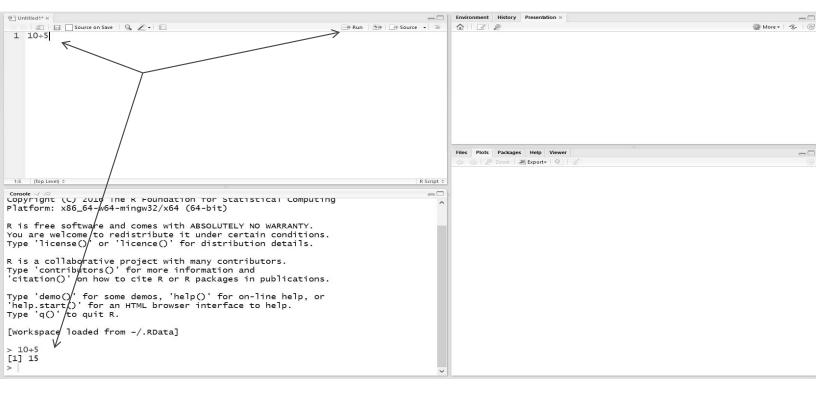




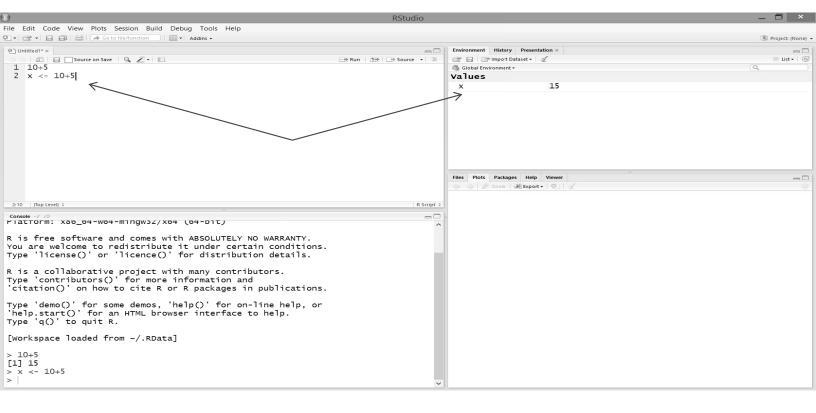




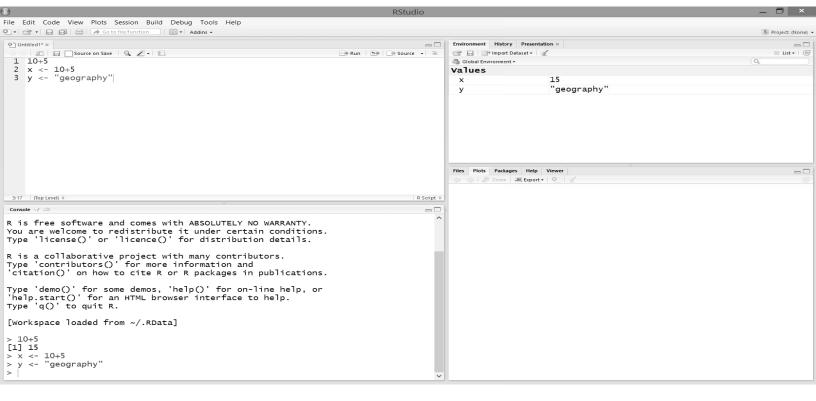
# Let's get started



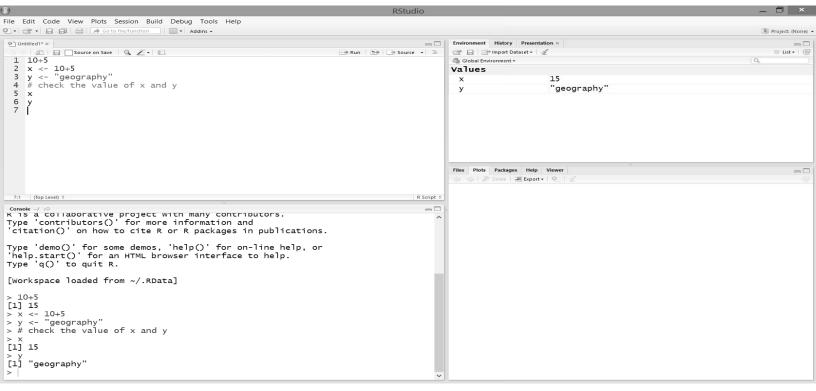
## Create a variable "x"



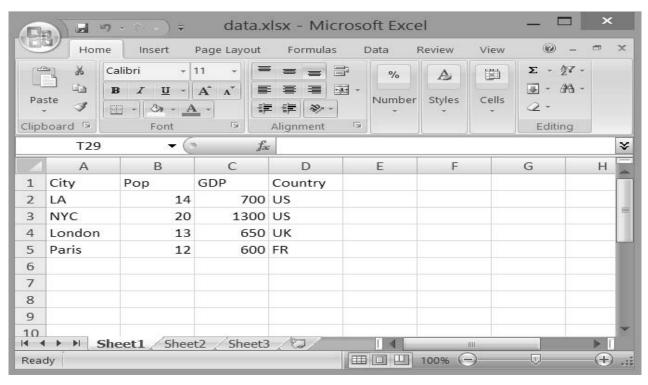
# Create a variable y



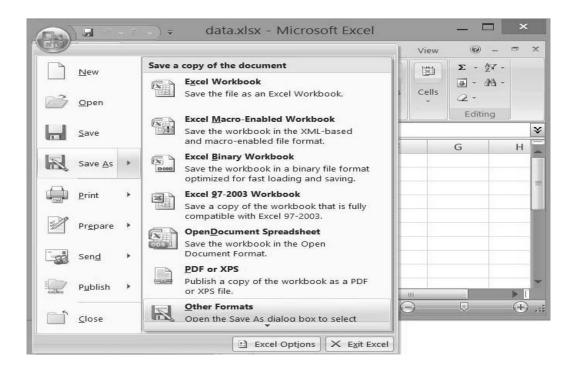
# Check the value of x and y



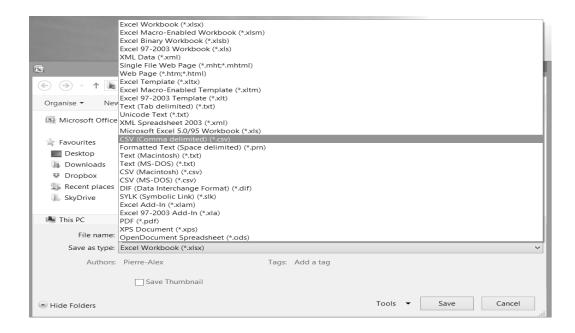
## Let's create a toy dataset



### Save as a .csv file



#### Save as a .csv file

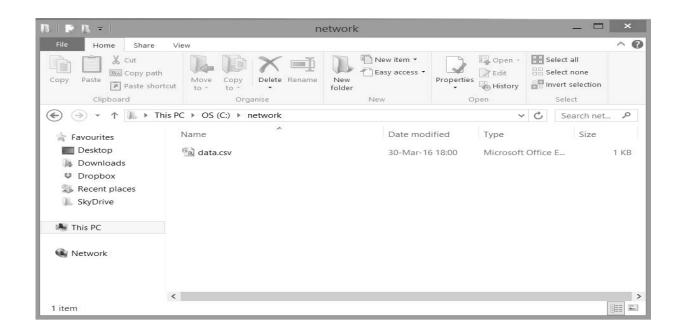


## Two warnings: ok





### Create a new folder and move the .csv



# This is your file path

