Introduction to
R

Getting to Know the R Environment
JO 521
Choose the layout of the panes in RStudio by selecting from the controls in each quadrant.

- Source
- Environment, History, Connections, Packages, Help, Viewer
- Console
- Files, Plots, Packages, Help, VCS, Viewer
Getting to Know the R Environment

When we first launch R Studio, we see this:

```
R version 4.0.3 (2020-10-10) -- "sunny-wunfuf freak out"
Copyright (C) 2020 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

natural language support but running in an English locale
R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> 
```
The Left Side Is The CONSOLE

- There are three tabs – CONSOLE, TERMINAL and JOBS
- Let’s focus on CONSOLE
- You run code in the console
- You can see results in real time
- Clicking up the Up Arrow will show you the most recent command you typed
To Clear the Console Click CTRL or CMND L
Scripts v. Markdown
You can move the visibility of any of the panes so you can see more of your work.

You can increase the visibility when you need to.
The Global Environment

- On the upper right is the “Global Environment”

- Any variables we import or data frames we create will be stored here

- We can go under the Environment tab to see what we have
We Can Also Sweep Away Anything We Don’t Need
The Files Window

- Our FILES window is on the bottom right
- This is where we see:
  - all our files
  - packages we’ve imported
  - And get help
# Getting to Know the R Environment

- Look around RStudio
  - There are 4 panes. We are currently in the script editor area.
  - In the upper right, note the Environment tab. When we import data or create a new data frame, they will appear there.
  - In the lower right, the Files tab shows us what is stored in our working directory.
  - The packages tab shows us which packages are loaded on our machine; if checked, it's turned on for this project.
  - Any ggplots we make will display under the Plots tab.

- The help tab is useful for finding out information about a particular package or function.
- The Console (below) will display a trail of each of our steps and show output from what we do in the script but it will not be saved.
- Terminal is something you would use if you connect your project to Github.

- Types of R files - scripts, notebooks, RMarkdown, etc.
- About R Notebooks: https://rviews.rstudio.com/2017/03/15/why-i-love-r-notebooks/