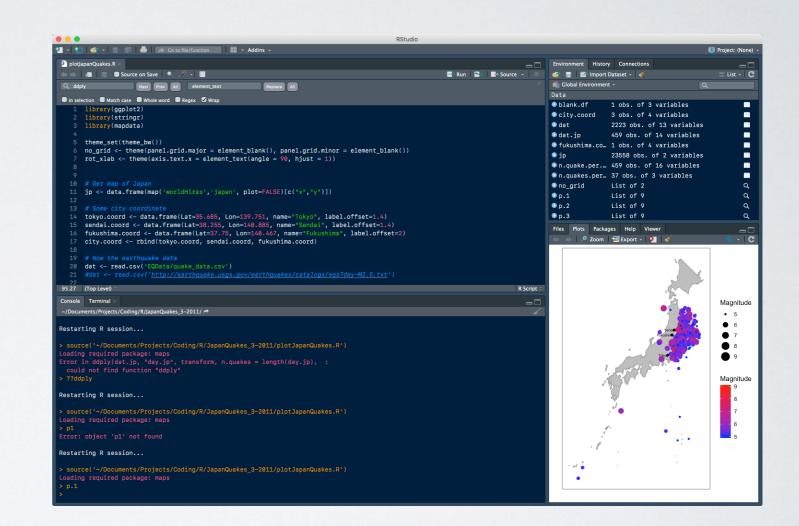


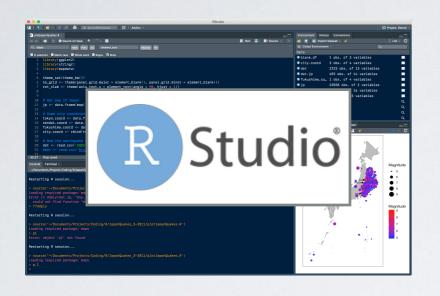
GETTING STARTED WITH RSTUDIO

Ryan Benz • R Ladies IRVINE • Oct 3, 2018

YOU'LL SPEND A LOT OF TIME IN RSTUDIO — MAKE IT PLEASANT TO USE!

- RStudio is like an artist's paint brush or musician's instrument
- Tune it to fit your needs and preferences
- Learn the basics, then dig into the details
- RStudio has a TON of features to make your life easier





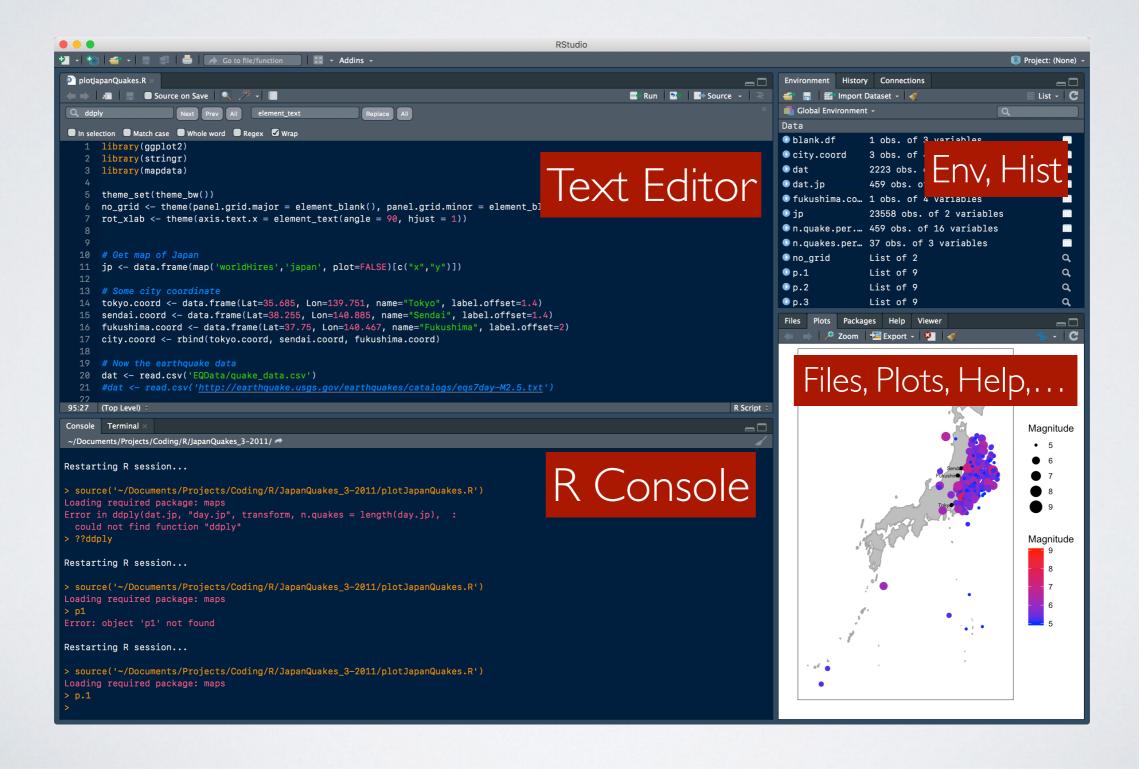


RStudio is an awesome tool for working with R

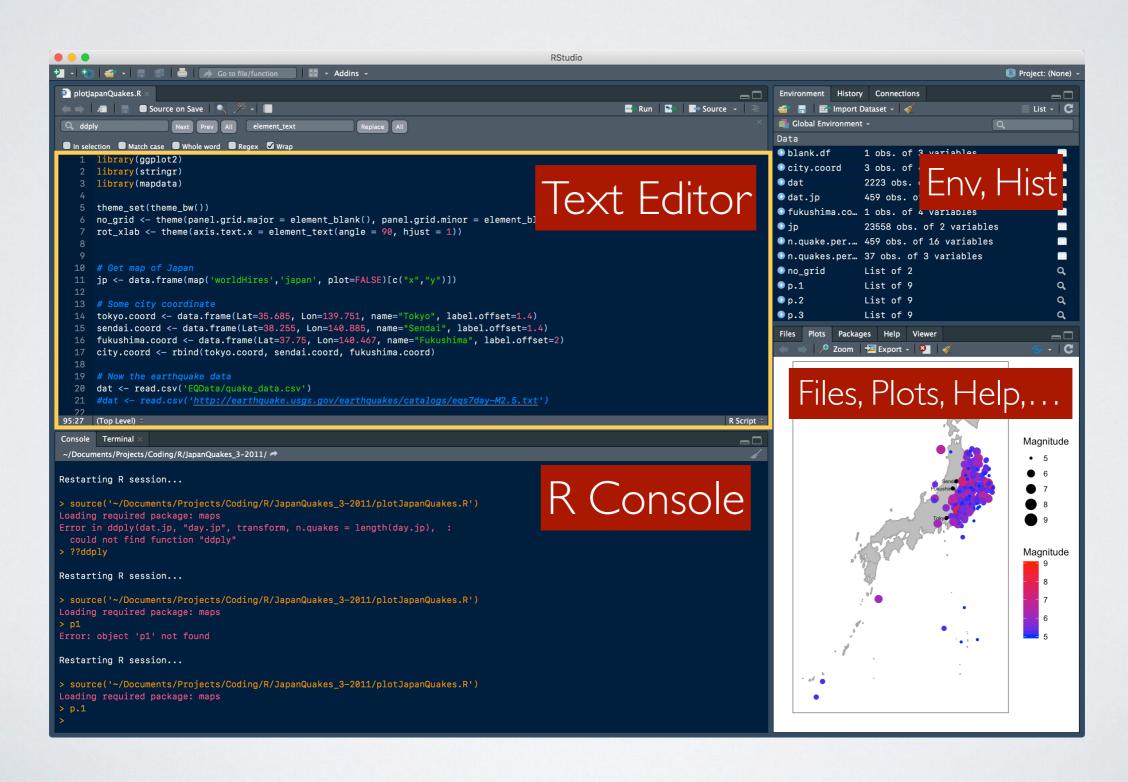
...but it's not R

You need to install R first, then install RStudio

AQUICKTOUR

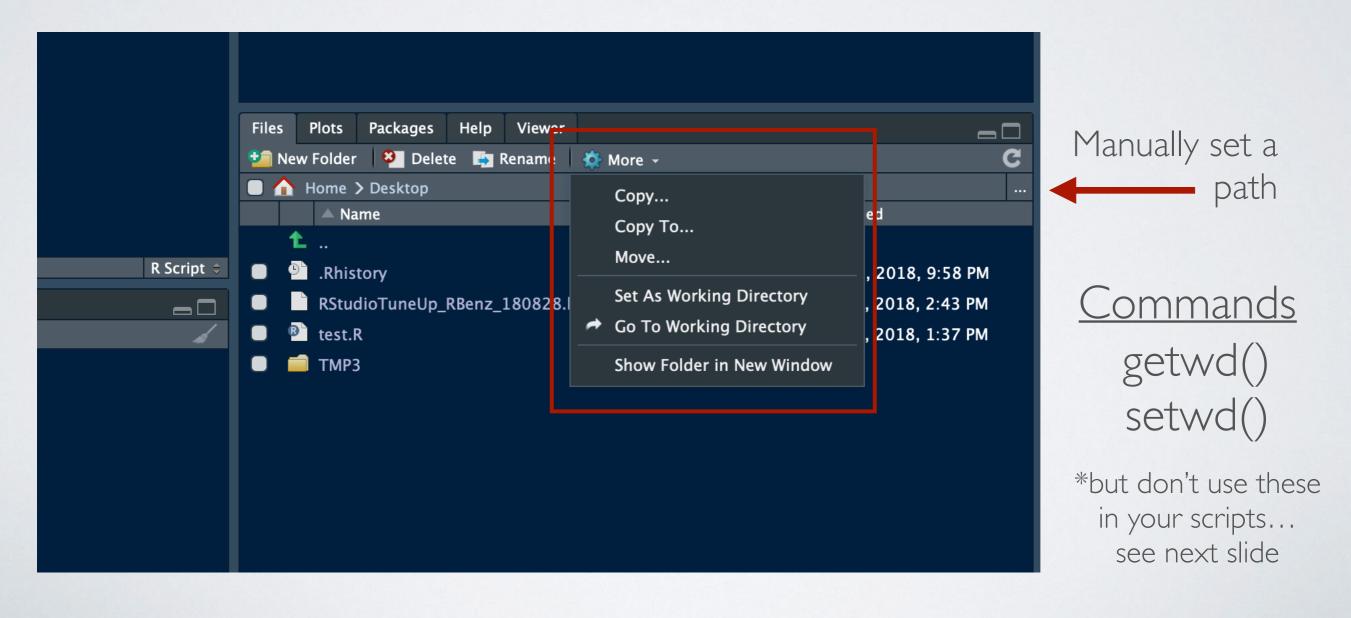


SPEND MOST OF YOUR TIME IN THE EDITOR



MIND THE PATH

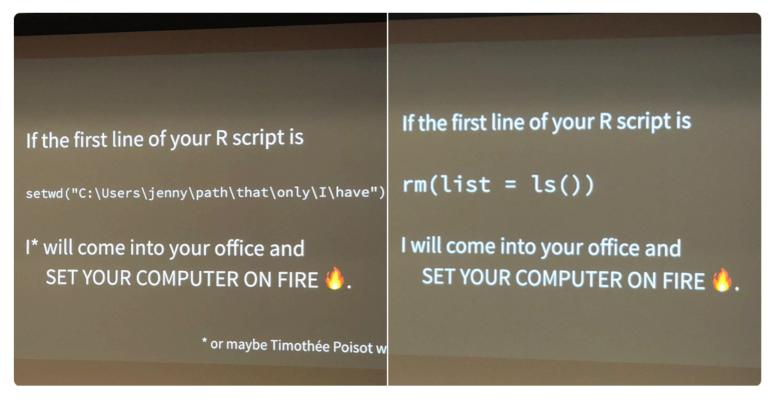
Every R session has an associated Working Directory
This is the base directory where you'll read and write files
You'll get lost if you don't know your Working Directory



THINK ABOUT YOUR WORK IN TERMS OF PROJECTS







Please read Jenny Bryan's great post on projectoriented workflows

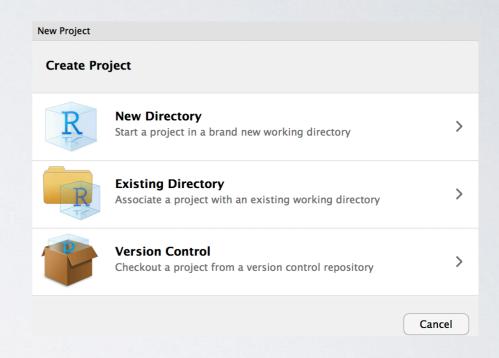


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AVOID STARTING RSTUDIO FROM FROM APPLICATIONS

- Create a new RStudio project
 File → New Project...
- In the terminal, cd to your working directory and run:
 open -a RStudio .
- Hadley's cool <u>launcher tip</u>





• If you do launch RStudio from Applications, manually navigate to your project directory before starting to work

EXAMPLE WORKFLOW #1

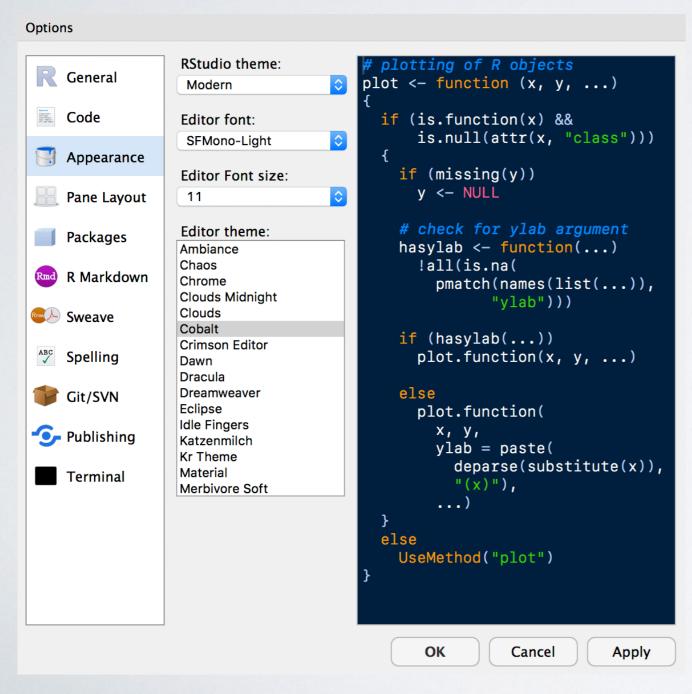
- I. Open RStudio
- 2. Create a new projectFile → New Project... → New Directory → ...
- 3. Create R scripts, add source data, save files & plots within this project directory (or sub-directories)
- 4. Return to this project at a later time by launching the project's .Rproj file

EXAMPLE WORKFLOW #2

- I. Open a terminal and mkdir your project directory
- 2. Open RStudio in the terminal from this directory: open -a RStudio .
- 3. Create R scripts, add source data, save files & plots within this project directory (or sub-directories)
- 4. Return to this project at a later time by cd'ing to this directory and launching RStudio (2. above)

CHOOSE A GREAT FONT AND THEME

Preferences → Appearance



These are some fonts I like

Inconsolata
SF Mono
IBM Plex Mono

These are some themes I like

Cobalt
Idle Fingers
Material

LEARN KEYBOARD SHORTCUTS (AT LEAST A FEW...)

Tools → Keyboard Shortcuts Help

Tools → Modify Keyboard Shortcuts...

Keyboard Shortcuts		
Show: •All Customized Q Filt	er	? Customizing Keyboard Shortcut
Name	Shortcut	Scope
Browse Addins		Workbench
Check Spelling	F7	Workbench
Check for RStudio Updates		Workbench
Clear All Breakpoints		Workbench
Clear All Plots		Workbench
Clear Console	Ctrl+L	Workbench
Clear Knitr Cache		Workbench
Clear Prerendered Output		Workbench
Clear Terminal Buffer		Workbench
Clear Workspace		Workbench
Close All Documents	Shift+Cmd+W	Workbench
Close Current Document	Cmd+W	Workbench
Close Current Project		Workbench
Close Other Documents	Shift+Alt+Cmd+W	Workbench
Close Terminal		Workbench
Compile Notebook		Workbench
Console on Left		Workbench
Console on Right		Workbench
Copy Current Plot to Clipboard		Workbench

IFYOU ONLY LEARN ONE... (WELL ACTUALLY TWO)

THE Drill

Step I: Restart your R session

SHIFT + CMD + F10

might also need the fn key on a laptop

Step 2: (re) Run your script

SHIFT + CMD + S

Do this frequently as you write your code

- Reminds you to capture your code in the editor, not the console
- Prevents coding left-overs from messing up your work
- Helps you find coding problems more quickly
- Essential component of a reproducible workflow

OTHER KEYBOARD SHORTCUTS I LIKE

Execute the current line of code

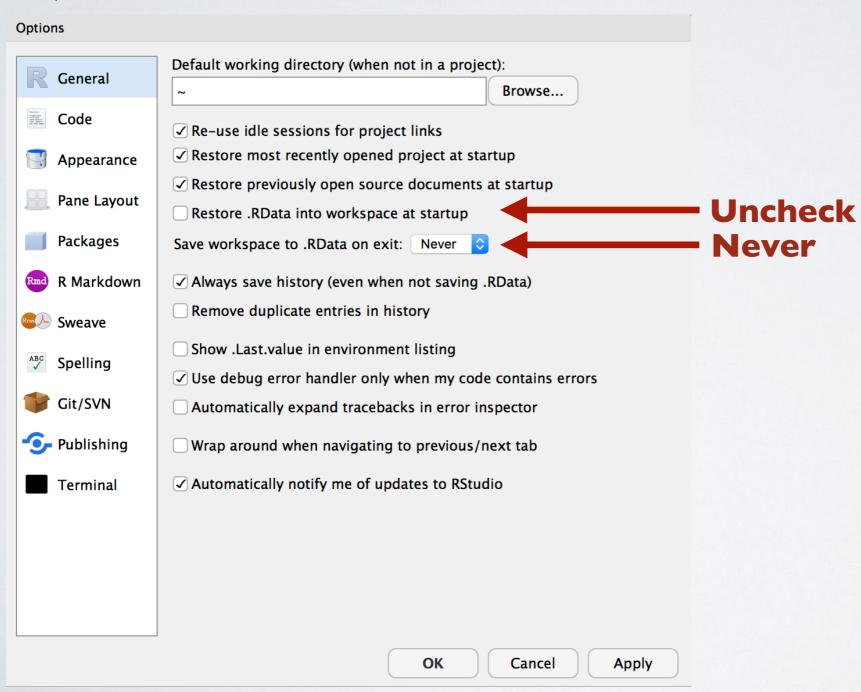
- Clean-up your code
 CMD+A, CMD+I
- Navigating your code
 CMD+arrow keys (use with SHIFT to select)

OTHER KEYBOARD SHORTCUTS I LIKE

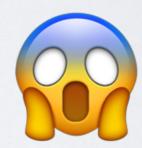
- Comment / uncomment
 CMD+SHIFT+C (but I remapped to CMD+/)
- Switch to Editor & Console
 CTRL+1 (Editor), CTRL+2 (Console)

CHANGETHESE SETTING NOW!

Preferences → General

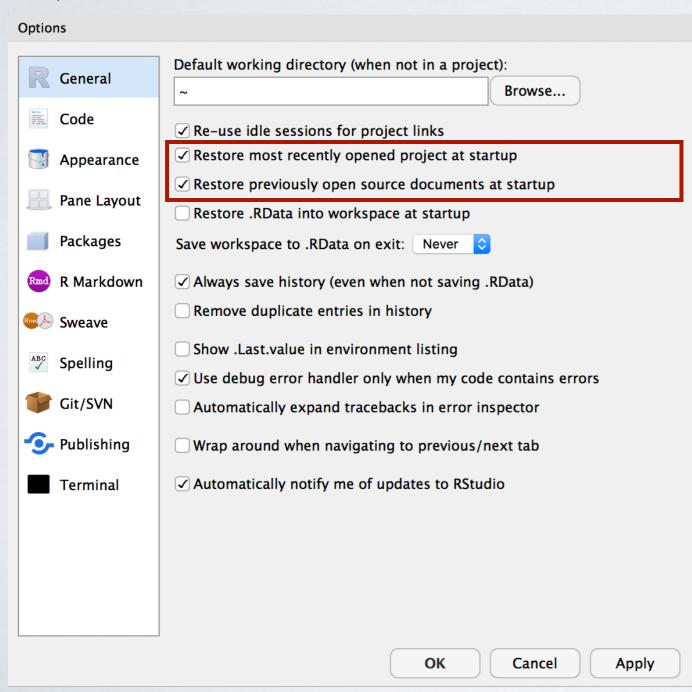


The defaults are reproducibility nightmares



CHANGETHESE SETTING NOW!

Preferences → General



I uncheck these too

Personal View
Starting to work on a project should be a deliberate action

FINALTHOUGHTS

Basic RStudio

use it as an editor to write code and a console to execute code

Advanced RStudio

learn keyboard shortcuts, tune it's settings, utilize it's power for writing packages, building Shiny apps, writing RMarkdown documents

- Think about your workflow how can you streamline your work process?
- The little bit of time you spend tuning your set-up can save you lots of time in the long run