

# Applied Economics Research using R: Session 1

Seunghyun Lee ([arslee@ucdavis.edu](mailto:arslee@ucdavis.edu))

10/4/2021

# Intro

- ▶ Research requires many things.
- ▶ Coding is a not sufficient but necessary and essential skill set for research.
- ▶ Curse of abundance
  - ▶ Data
  - ▶ Programming Languages
  - ▶ Methodologies
- ▶ Too much information is no information

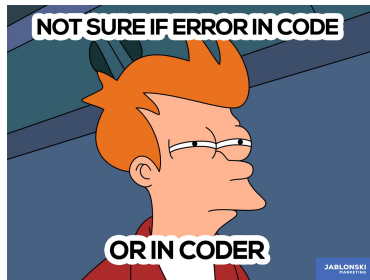
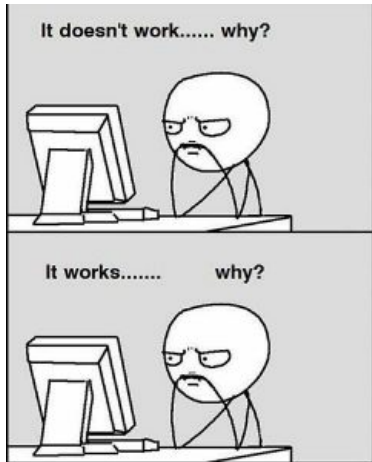


So, where should we go and how?

# What was your coding experience like ?



Mine was like..



# Mindsets

- ▶ Focus on positive experiences
- ▶ Keep making small achievements
- ▶ No one is born a programmer
- ▶ Do you know how to use Google? Then you are ready to become a good programmer

# Coding

- ▶ Coding is more than executing things with some lines of code.
- ▶ It encompasses general workflows
  - ▶ folder/file management
  - ▶ documentation
  - ▶ version control
- ▶ Some important qualities are
  - ▶ readability
  - ▶ modifiability
  - ▶ reproducibility
  - ▶ efficiency (space + time)

# Things you need to know when using R

- ▶ R has multiple packages that do similar things.
  - ▶ Different packages might have very different syntax styles.
  - ▶ e.g., base vs tidyverse vs data.table ([nice summary here](#))
  - ▶ In the first session, I stick to tidyverse style. In the second session, I will use data.table style.
- ▶ Some packages are more reliable than others.
  - ▶ Do some research or play around with it when you start using a new package especially if not widely used.

# Start with some fun things

Shortcuts

Snippets

Table of contents in R script

Formatter