

Applied Economics Research using R: Session 1

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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

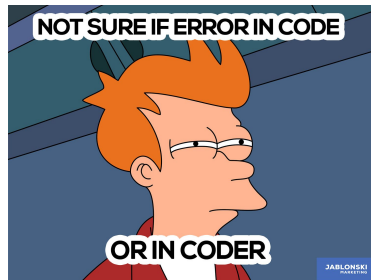
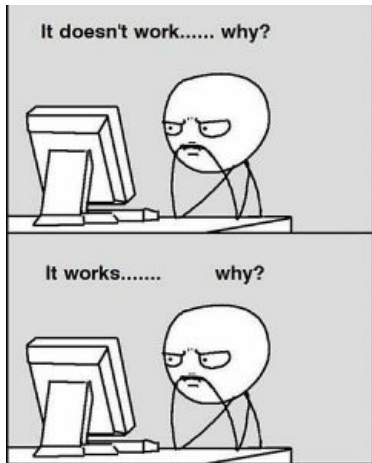


So, where should we go and how?

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