

Lecture 5. Functions

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Logistics

- ▶ Weekly assignments are now due Friday at 12PM CST!!
- ▶ If you need more time, PLEASE let me know
- ▶ I will provide feedback over the weekend
- ▶ Make sure your repositories are public
- ▶ R assignments:
 - ▶ I will post answer keys

Goals

- ▶ Quick R review
 - ▶ You should all be experts by now!!
- ▶ Understand loops, scoped verbs, and nesting
- ▶ R in 811 will have more of a focus on working with datasets and less of an emphasis on probability

What are loops?

- ▶ I've seen your PS812 homework assignments and they have loops
- ▶ Does anyone want to walk us through a loop from an 812 assignment?

What are scoped verbs?

- ▶ `if`: apply functions to variables that fulfills certain conditions (i.e., apply this function if this is true)
- ▶ `at`: apply functions to specific variables (i.e., apply this function at this variable)
- ▶ `all`: apply functions to every variable (i.e., apply this function at all variables)

What is nesting?

- ▶ Nesting is when columns are a list of data frames
- ▶ Groups of data frames accessible through a “nest”