Info 201

Lab 3 Yipee!

Homework 4

- Due 10/25
- Content
  - Functions
  - Dplyr
  - Reading and writing .csv files
  - A bit longer than the previous assignments (so start early)

1

DPLYR

A grammar for data manipulation

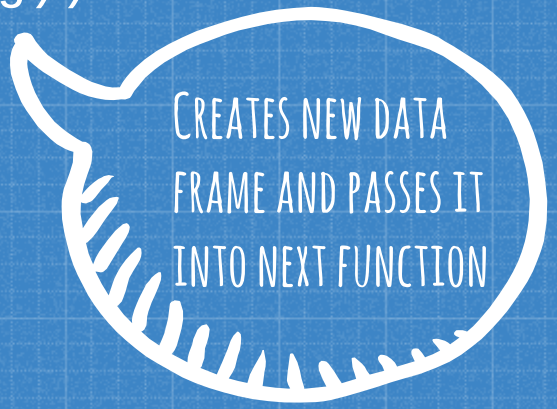
dplyr verbs review

- `> select(data.frame, column1, column2, ...)`
  - Lets you select columns
- `> filter(data.frame, row.name %in% c("value1", "value2", ...))`
  - Lets you select rows
- `> mutate(data.frame, new.column1 = old.column * 2, new.column2 = old.column * 3)`
  - Create additional columns for your dataframe
- `> arrange(data.frame, column.name)`
  - Sorts data in ascending order
  - Add - in front of column name to reverse order

Pipe Operator

- Takes result from one function and passes them into another
  - Only need to put data frame into function once
- Syntax: %>%
- Example:

```
mtcars.named <- mutate(mtcars, car.name = row.names(mtcars))
best.car <- filter(mtcars.named, cyl == 4) %>%
            filter(mpg == max(mpg)) %>%
            select(car.name)
```



2 Lab Exercise

Let’s practice some
of this stuff!

Don’t forget...

- Homework 4 due 10/25
- Start early
- Homework 2 returned soon
- Questions?
  - Modules
  - Google
  - Neighbor
  - Then after all that...
    - Ask your TA
      - Slack
      - Email