

# Causality

Claire Liow

5/26/2022



# Load data and packages

```
library(tidyverse)
library(qss)

data(resume, package = "qss")
```

# Pipe operations

```
setwd("~/Dropbox/GitHub/qss-inst-tidyverse/Causality")  
resume <- read_csv("data/resume.csv")
```

```
head(resume)  
tail(resume)  
glimpse(resume)
```

```
race.call.summary <- resume %>%  
  group_by(race, call) %>%  
  count()
```

```
race.call.summary
```

```
race.call.tab <- race.call.summary %>%  
  pivot_wider(names_from = call,  
              values_from = n) %>%  
  rename(no_callback = "0")
```

# Recode variables

```
## Simple conditional statements
```

```
resume.binary <- resume %>%  
  mutate(BlackFemale = if_else(race == "black" &  
                                sex == "female", 1, 0))
```

```
## Recode variables
```

```
resume <- resume %>%  
  mutate(type = case_when(race == "black" & sex == "male" ~ "B",  
                           race == "black" & sex == "female" ~ "F",  
                           race == "white" & sex == "male" ~ "W",  
                           race == "white" & sex == "female" ~ "F",  
                           TRUE ~ "other"))
```

# Title TBD

```
callback.by.firstname <- resume %>%  
  group_by(firstname) %>%  
  select(firstname, call) %>%  
  summarize(callback = mean(call))  
  
head(callback.by.firstname)
```