Chapter 2: Causality

Data Transformation with Tidyverse Functions

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- Aggregate data with group_by
- Summarize data with summarize
- Reshape the data with pivot_wider

Section 1

Aggregate data with group_by

Aggregate data with group_by

```
## count the observation in each subset
race.call.summary <- resume %>%
  group_by(race, call) %>%
  count()

## calculate callback rates by race
callback_by_race <- resume %>%
  group_by(race, sex) %>%
  summarize(callback_rate = mean(call))
```

Section 2

Summarize data with summarize

Summarize data with summarize

```
resume %>%
group_by(race, sex) %>%
summarize(callback = mean(call))

resume %>%
    group_by(firstname) %>%
    summarize(callback = mean(call))
```

Section 3

Reshape the data with pivot_wider

Reshape the data with pivot_wider

```
## tidyverse
## without pivoting the data
resume %>%
group_by(race, sex) %>%
summarize(callback = mean(call))
## after pivoting the data
resume %>%
group_by(race, sex) %>%
summarize(callback = mean(call)) %>%
pivot_wider(names_from = race, values_from = callback)
```