# QSS20: Modern Statistical Computing

Unit 07: Catchup: Merging data & LaTeX

# Goals for today

- ► Upcoming deadlines
- ► Recap of reshaping data
- ► Merging data
- ► LaTeX

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## Upcoming deadlines

### DataCamp:

- ► Today: Chapters on merging data
- ► Wednesday 02/01: Chapter on regular expressions for matching
- ▶ **Optional:** Chapter on intro to HTML (essential for web-scraping)

#### **Problem sets:**

- ► **Problem set 1 makeup:** due Wednesday 02/01 by 11:59 PM; replaces pset 1 problem score, *or* chance for extra credit
- ► **Problem set 3** (reshaping, data merging, regex): due next Wednesday 02/08
- ► Final project milestone 1 (research question): due next Sunday 02/12

### **Survey reminders** (past due; please do TONIGHT):

- ▶ Pset 2 feedback: 21 have completed
- ► Final project group preferences: 18 have completed
- ► Can find both surveys on course website "Useful Links" page

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## Recap of reshaping data

What do you remember?

## Recap of reshaping data

### Tips:

- Long format data: think of a chair viewed from front (longer than wide)
- ► Wide format data: think of a chair knocked over (wider than long)
- ▶ Inputs can seem confusing, but only three:
  - ► Unit of analysis (index or id\_vars)—the thing we're tracking
  - ► Unit of variation (columns for pd.pivot)—what varies, e.g. time, distance (AKA independent variable)
  - ► Measurements (values for pd.pivot)—the concrete "stuff" we care about (AKA dependent variable)

#### **Useful commands:**

### Where we are

- ► Upcoming deadlines
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# Merging data (from previous class)

Slides

Merging part of 06\_qss20\_w23\_mergereshape.pdf

Activity

Merging part (section 2) of 03\_reshaping\_merging\_blank.ipynb

### Where we are

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## LaTeX (from class on functions)

### Slides

LaTeX part of 04\_qss20\_w23\_userdefinedfunctions\_latex.pdf

### Activity

- ► Link to Overleaf template to copy over
  - ► Click 'Menu' in top-left then Actions/'Copy Project'
- Python activity: 02\_latex\_output\_examples\_blank.ipynb

### We covered

- ► Recap of reshaping data
- ► Merging data
- ► LaTeX

## Last thing: Your feedback for today

What's one thing you learned and one challenge/lingering question you encountered?