## Introduction to Cleaning Data in R

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#### Data Science Process: Collect >> Clean >> Analyze >> Report

## What we'll cover in this course:

- 1. Exploring raw data
- 2. Tidying data
- 3. Preparing data for analysis
- 4. Putting it all together

# View the first 6 rows of data
head(weather)

# View the last 6 rows of data
tail(weather)

# View a condensed summary of the data
str(weather)

## Exploring RAW data:

1. Understanding the structure of your data

# Load the lunch data
lunch <- read.csv("datasets/lunch\_clean.csv")</pre>

• class() - Class of data object

# View its class
class(lunch)
> "data.frame"

• dim() - Dimension of data

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# View its dimensions
  dim(lunch)
  > 46 7
• names() - Column names
  # Look at the column names
  names(lunch)
  > "year" "avg_free" ... "perc_free_red"
• str() - Preview of data with helpful details
  str(lunch) # provides dataframe row & columns, column's names, datatype and heading records
  # Load dplyr
  library(dplyr)
• glimpse() - Better version of str() from dplyr
  # View structure of lunch, the dplyr way
  glimpse(lunch)
• summery() - Summary of data
  # View a summary
  summary(lunch)
```

- 2. Looking at your data
- 3. Visualize your data