

Intro to Social Science Data Analysis

Seminar 2: Types of Data

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Research Questions 1

With a partner: think of a **research question** you might want to answer.

Research Questions 2

With a partner: What is your best guess (**hypothesis**) answer to this question?

Research Questions 3

With a partner: What data could you use to operationalize this hypothesis?

What **measurement level** is this data probably at?

New Data Frames

Create a **new data frame** with at least 3 variables.

You should include a:

- ▶ character string variable,
- ▶ numeric variable,
- ▶ factor variable with at least 3 levels.

Data Sets

Look at the example data sets included in R:

```
library(help = "datasets")
```

For two of these data sets:

- ▶ Pick one variable,
- ▶ Find the minimum and maximum value of the variable,
- ▶ Find its mean.

Subsetting

With these two data sets:

- ▶ Create a new object that only has the first **two variables & observations 14 through 28**.
- ▶ Create a new object that only has observations where the value of the second variable is **not greater than the variable's mean**.