

# Intro to Social Science Data Analysis

## Week 14: Statistical Analysis and Visualization of Results

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# Schedule

We are dedicating **all** of the class time for the rest of the course to the research project.

## Schedule:

- ▶ Week 13: Research question, design, & data download,
- ▶ Week 14: Statistical Analysis & Results Visualization,
- ▶ Week 15: Write up.
- ▶ Week 16: Presentations.

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## Today's Goals:

1. Make sure you data is clean & ready for analysis.
2. Descriptive statistics.



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### Remember:

One of the assumptions of linear regression is that the observations are independent of one another.

Many of you are using data from many countries across many years.

This is called **time-series cross-sectional data**.

## For Example

### Time-series Cross Sectional Data

```
##                country GDPperCapita
## 7  United Arab Emirates      38959.8
## 8      Afghanistan          425.1
## 9  Antigua and Barbuda      13829.8
## 10      Albania            3795.7
## 11      Armenia            2803.3
## 12      Angola             4068.5
##  InfantMortality region          income
## 7          6.3      ME High income: nonOECD
## 8          76.2     SA          Low income
## 9          7.2     LA  Upper middle income
## 10         14.1     EUR Upper middle income
## 11         17.2     EUR Lower middle income
## 12        100.1     SSA Lower middle income
```

# Results Tables

Hand typing results tables is really irritating.