

Time Match Dot Com

Unit 1 - Lab 10

Directions: Follow along with the slides and answer the questions in **BOLDED** font in your journal.

How do we compare?

- For this lab, we'll be comparing how your class spends their time versus how other Americans spend their time.
- **Load the full American Time Use Survey**

```
data(atus)
```

- load your own class' data and call it `my_atus`.
- Run the following command again to format our data

```
my_atus <- atus_format(my_atus)
```

What does `atus_format` do again?

- The function `atus_format` takes every individual student's data and takes the average of how they spent their time over 5 days.
 - This let's us see how a student spends a **typical** day.
- Every class member will be a single observation in `my_atus`.
 - This is similar to how different individuals are the observations for the larger `atus` data.

Let the comparisons, begin!

- Using what you've learned in prior labs, make comparisons between how your class spends it's time versus how Americans in general spend their time:
- Suggestions
 - **Find some variables that are in both data sets**
 - **How do the typical values for your class compare to Americans in general?**
 - **Create plots of each groups variables. How are they similar? Different?**

Watch out!

- You might want to **subset** your data so you compare apples to apples.
 - For instance, not all Americans are in school, and so will spend 0 minutes doing homework.
 - It would be better to make comparisons using just the subset of the data of people who did at least 1 minute of homework.
 - Then you can compare how much time your class spends on homework against other people who also spend at least some time doing homework.

And away you go:

- Using what you've learned so far, make comparisons between your classes data and the full ATUS data by using:
 - **Single variable plots**
 - **Multiple variable plots**
 - **2-way frequency tables**
- Answer the following:
 - **How is your classes time use similar to other Americans?**
 - **How is your classes time use different from other Americans?**
- Share your findings with a partner
 - **Did your partner make appropriate plots?**
 - **Did your partner make appropriate conclusions?**