

Data 227 - Autumn 2021 HW 1
Data Visualization and Communication - Trimble
Due: October 5, 2021 12:00pm (noon)

Homework 1, Population histograms

1. For this assignment, you will create a static visualization of the population histograms from the 1900 and 2000 US. Census. These came from the U.S. Census Bureau via IPUMS <https://www.ipums.org/> and give numbers of people enumerated in 5 year bins, age 0-4, 5-9, 10-14... up to 90+, and reported sex (1 for male, 2 for female).

`data/census1900-2000.csv` on canvas

<https://canvas.uchicago.edu/courses/38293/files/folder/data>

<https://canvas.uchicago.edu/files/6084647/download>

It looks like this:

```
Sex,Year,Age,People
1,1900,0,4619544
1,2000,0,9735380
1,1900,5,4465783
1,2000,5,10552146
...
```

You can read about this data, and some light commentary about age histograms in the Gilded Age in 1900 Census: Volume II. Population, Part 2

<http://www2.census.gov/library/publications/decennial/1900/volume-2/volume-2-p2.pdf>

Examine the data, ask a question of the data, and design a visualization that answers the question.

Include one paragraph to go with the visualization, like a figure caption, and include one to three paragraphs explaining your question and your graphical design, and any code you used to produce the visualization.

You do not have to use any specific tools to produce the visualization (you could even draw it by hand) but you need to find an interesting question and answer it effectively.