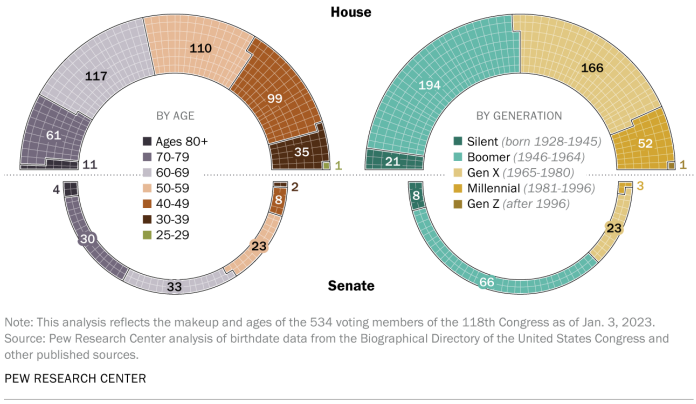
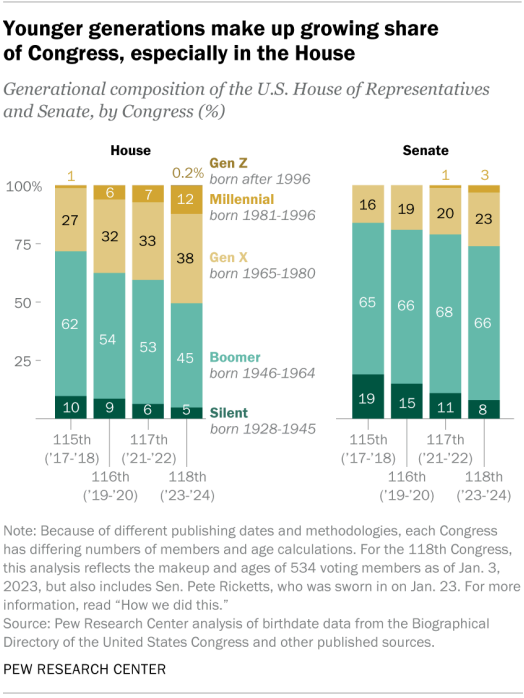
Names of team members:
Ambro Quach
Chad Adelman
Gabby Tom
Uma Krishnan

Name of your team's GitHub repository:
https://github.com/UC-Berkeley-I-School/project2_tom_quach_krishnan_adelman

A primary dataset you intend to analyze:
We intend to analyze a dataset that contains information about US members of Congress since its formation. We plan to focus the analysis on the age of the members of Congress and how it has changed over time. The dataset allows us to explore the data to reach conclusions across chambers of Congress (house vs. senate), male vs. female, state represented, etc.

Initial plots, figures, or tables,





Source:
https://www.pewresearch.org/short-reads/2023/01/30/house-gets-younger-senate-gets-older-a-look-at-the-age-and-generation-of-lawmakers-in-the-118th-congress/

Some of the variables (column names) you intend to explore and what kind of insights you expect to glean
We'll focus on chamber, state, party, incumbent, age, gender, birthday, and term start. We're attempting to gain insights into how the age (age column) of members of Congress has varied over time (term start column) and how this differs across other attributes of the congress member such as party, incumbent, etc.

Supplemental datasets, if any, to complement your primary dataset - this means links, columns that you'll join on, etc.

https://datahub.io/core/five-thirty-eight-datasets/datasets/congress-age
https://github.com/unitedstates/congress-legislators?tab=readme-ov-file
https://theunitedstates.io/

What you plan to cover in the final report and how you plan to organize it.

- Congress is supposed to represent the people (currently dominated by old, straight, white men). How is that reflected in our current Congress?
    - How has Congress's demographic changed over time versus the demographic of our current population?
    - What has this trend looked like historically?
        - By chamber (house vs. senate)
        - By party (Dem. vs Rep.)
- Is their age reflective of our current population?
    - Average age, ethnicity/state, gender ratio, party
- Our EDA will seek to explore the below:
    - Most/least common ethnicity, gender ratio?
    - Min age, max age, average age
    - Length of term, years of service
    - Per state? Average age/term length
        - Over the past __ years, how has this changed?
    - Per committee? Average age/term length
        - Over the past __ years, how has this changed?
- Explanatory visualization from our analysis
    - Tools we'll using: numpy, panda, matplotlib/seaborn, beautifulsoup

Steps:

- Overview -> Research Question -> Background (Existing Literature) -> Datasets Setup (Wrangling and Cleaning) -> Data Analysis (Descriptive and Explanatory) -> Visualization -> Conclusion and Results