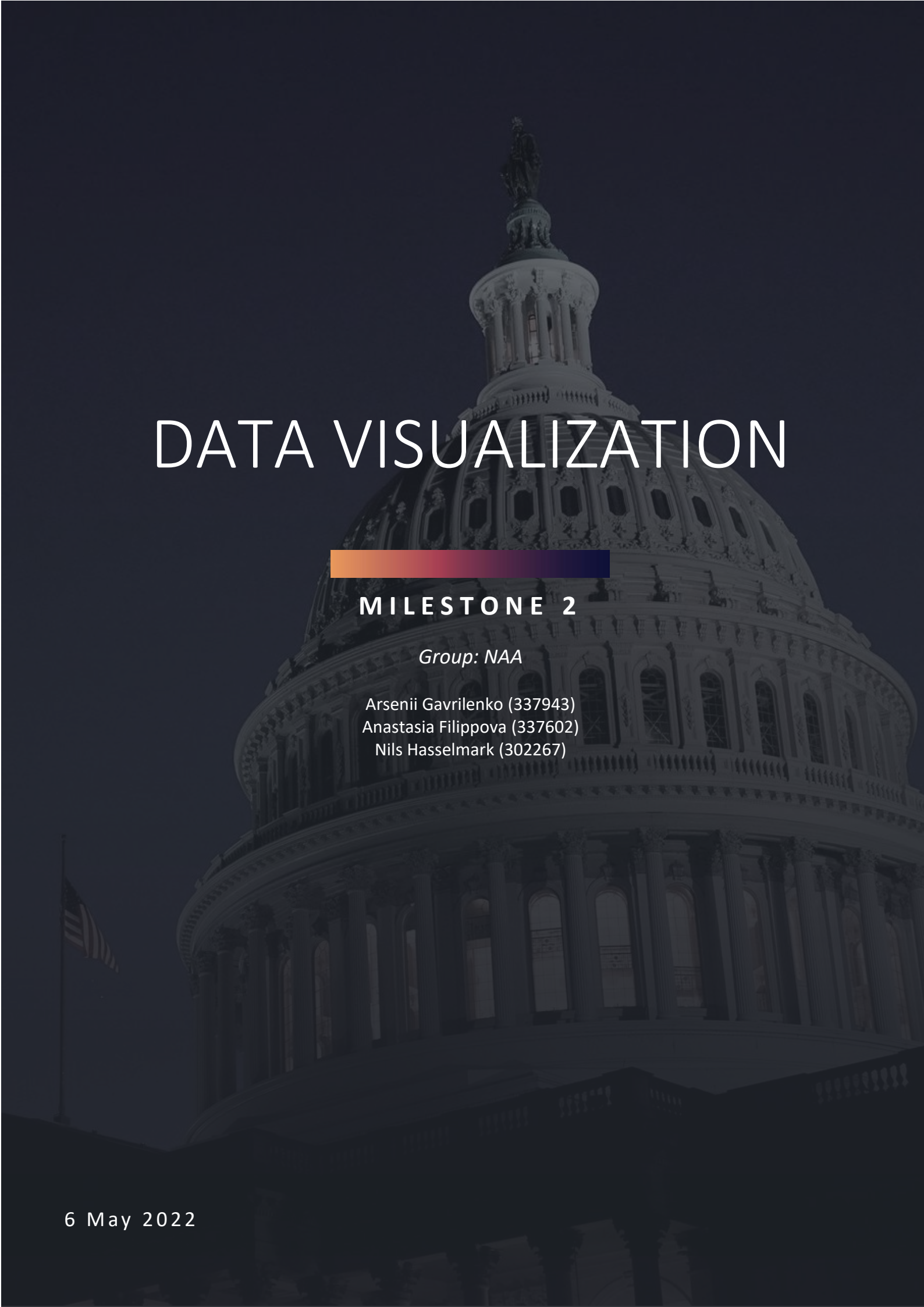

DATA VISUALIZATION

MILESTONE 2

Group: NAA

Arsenii Gavrilenko (337943)
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Nils Hasselmark (302267)

6 May 2022

WEBSITE SKETCH

The first iteration of the website can be accessed here.
The Skeleton of the desired website is given below. It was designed using Miro. The circled numbers are used for referencing the charts in the next page. Please note that the final product might differ, depending on the future challenges we might face. More explicative text as well as a better choice of color should also appear in the final product.

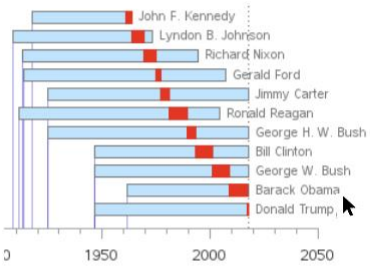
Understanding US Presidential elections

This website was developped for the EPFL course Data Visualization given in 2022.

1

US Presidents history

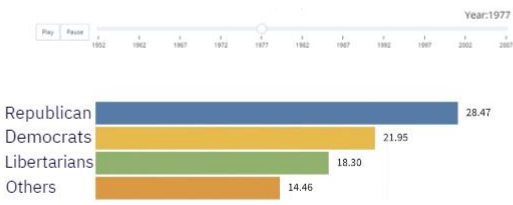
2



3

Barack Obama
(1961 -)

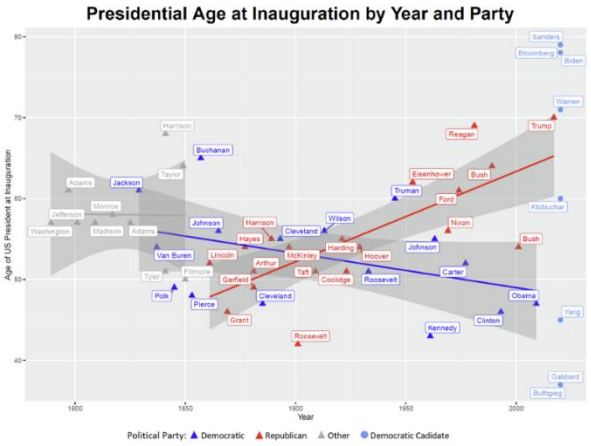
Party popularity



4

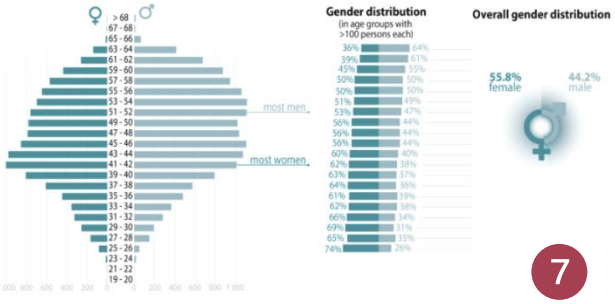
5

Candidates characteristics



6

US Candidates gender and age repartition



7

MINIMUM VIABLE PRODUCT

The MVP of the website consists of:

1. An explanation of the way US presidential elections are organized.
2. An interactive graph showing the successive US presidents, with their age displayed as a bar as well as the time they spent as running president.
3. Some personal information (at least a picture, birth and death date, and political party) about the president selected in the graph.
4. A dynamic chart showing the evolution of the number of votes for each party. The time cursor could be played as a video.
5. A map showing the most popular party for each State. The map should update with the same time cursor as the dynamic chart.

EXTRA IDEAS

Depending on the time we have, we might consider the following additional features:

6. An interactive chart showing age distribution of all candidates according to their political party and the year of the election.
7. An interactive chart highlighting the gender distribution of all candidates according to their political party and the year of the election.

TOOLS USED

- **Frameworks**

We are going to use **React** as a basis for our work. We will also use **ChartJS**, a powerful library that provides all needed components for bar-charts and scatters we want to have.

- **Tools from lecture**

Design: In our case we are using Problem-Driven design **(Lecture Designing Viz)** since we are going from problems and hypothesis to the dashboards that answer the initial questions. We also used sketches to design draft of the final visualization.

Data: Working with data is a core part of the project since we would build our product around the data we have from MIT Elections lab and WikiData. The **Lecture: D3.jsFile** helps a lot in discovering the ways to work with data (csv and json).

Maps: Maps are an essential part of our storyline, so we are going to refer a lot to the (**Lecture Maps)** since many options of Maps visualizations were listed there.

Charts: One of the next lectures would also help us for sure. It's the **Lecture Tabular Data.** Based on this lecture and ChartJS we could find the best ways to present US elections storyline.