This report shows the progress made so far in the development of the Data Visualization extensions, highlighting the research, design choices, prioritization frameworks and first implementations.

In the first weeks, I rewatched the videos from ITP1 and deepened my understanding of JavaScript through Udemy courses. **To collect fresh data, I created a** [**Google Forms**](https://forms.gle/bUTzGUvkMgp6KCHM8) **on AI Usag**e**. The challenge is the number of responses that may vary significantly.**

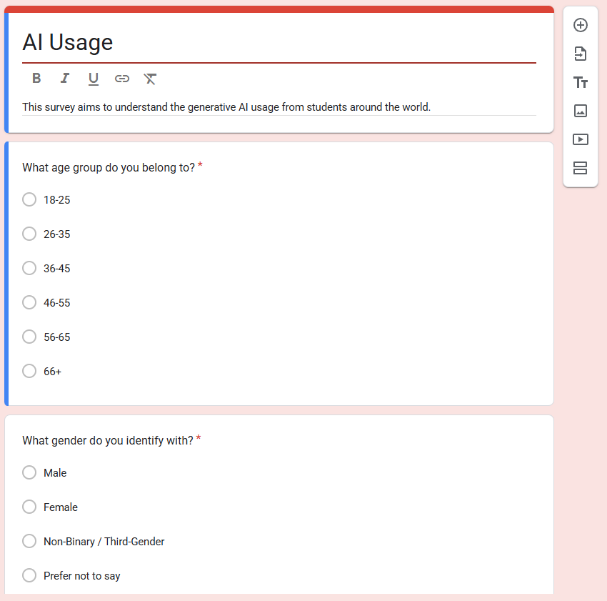


Figure 1 - AI Usage Survey

Before coding, I **analyzed the provided files and created a diagram using** [**Good Notes**](https://www.goodnotes.com/) to understand the structure of the visualization template.

A diagram of a computer program

AI-generated content may be incorrect.

Figure 2 – Code Diagram Draft

Then**, I researched about used methods of prioritization and found:**

* **SWOT.**
* **MoScOw.**

Using **MoScOw method**, I set as “Must” for core features, “Should” for improvements in chart clarity, “Could” for non-essential enhancements and “Haven’t” for complex tasks that might delay the project.

**For example, for the Tech Diversity Race (*Figure 3*), I would prioritize adequate the charts first instead of creating a smooth transition in the pie charts. Therefore, I could avoid wasting time on less critical tasks and focus on what really should be working properly.**

A diagram of different colors

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Figure 3 - Moscow Method: Tech Diversity Race

Moreover, with the **SWOT analysis**, I was able to identify where the extensions had strengths I could build on, and where weaknesses or threats could block progress.

**For example, I identified a potential threat on AI Usage (*Figure 4*), as depends on students responses. To address this, I followed up with students to ensure completion within two weeks.**

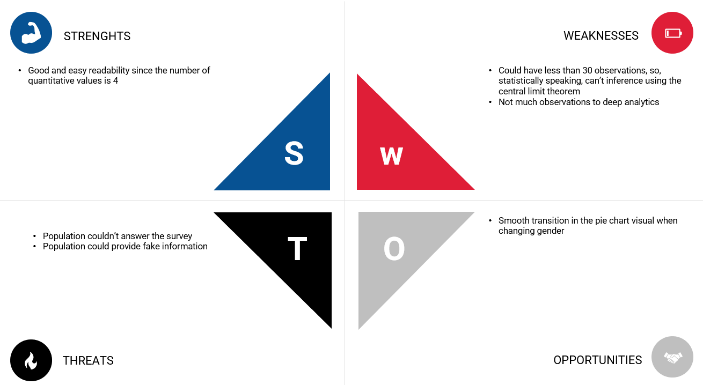


Figure 4 - SWOT: AI Usage

For design, I selected the **Roboto font,** since according to Colin Ware, in *Information Visualization: Perception for Design*, “sans-serif fonts such as Roboto enhance legibility in screen-based environments.”

**The colour palette was inspired by the** [University of London](https://www.london.ac.uk/)’s **website:**A red and blue circles with black text

AI-generated content may be incorrect.

Figure 5 – Color Palette

I also **did some research about** **common tools used in developing applications design** and I found [**Figma**](https://www.figma.com/).

A screenshot of a computer

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Figure 6 – Figma Design

**So far, I have completed 41% of the project**. I’ve spent 20h coding, totalizing over 1500 lines of JavaScript, where I implemented both extensions (presented in class), modularized canvas menu bar (using classes), added a tooltip in Race Tech Diversity chart and integrated UoL logo.

**After midterm**, I’ll focus on adding the missing extensions and features **(e.g. mean per gender by week 13 for Diversity Race)**. This will be done by **reviewing my deliveries from a Gantt chart and breaking them into smaller and more granular tasks within the KANBAN board every week.** Each Friday I’ll create a new backlog according to the Gantt chart to plan the upcoming week.