

# CS 171 – Design Sprint



## At-A-Glance

**What:** A design sprint is a group project where, for several weeks, you go through the main steps of a visualization project: map, decide, sketch, prototype, and test.

**When:** Typically, you will work on the design sprint for the last 30 minutes of class during the first half of the semester. If you are efficient during that time, you should not have to work on it outside of class. Otherwise, you might have to finish things up outside of class time.

**Teams:** We will randomly assign teams of 4-5 students early in the semester.

**Topic:** We provide several datasets from which you can choose.

**Design & Implementation:** Mainly sketching and prototyping in Tableau.

## What to Submit

At the end of the design sprint, your team has to submit the following items:

- **Process book:** a Google doc that documents every step and design decision of your design sprint. The Google doc has to be shared with the TFs, and it is your responsibility to make sure that all of the TFs and instructors can read it.
- **Tableau Packaged Workbook (.twbx) file:** A package of files that includes your data source file, the Tableau workbook (.twb), and any other files used to produce the workbook (including images). We will not grade .twb files.
- **Design Sprint Video:** A max. 2-minute screencast with narration that explains your project to a general audience by showing how a user would use your final Tableau Dashboard. You can use any screencast tool of your choice. Please make sure that the sound quality of your video is good - it may be worthwhile to invest in an external USB microphone. Please use a standard video file format with standard video codec.
- **Group Peer Assessment:** It is important to provide positive feedback to people who truly worked hard for the good of the team and to also make suggestions to those you perceived not to be working as effectively on team tasks. We ask you to provide an honest assessment of the contributions of the members of your team, including yourself. Every team member needs to fill in a form for your peer assessments.

Please submit the process book, your Tableau Workbook, and a link to your video in a single zip file! The peer assessment form is available on Canvas!

## Grading Rubric

When grading the design sprint, we will evaluate the following properties:

- Completeness
  - Submission of all of required files, including group peer assessment from each team member

- TFs can read the process book and view the design sprint video
- Map
  - Clear description of the target audience
  - A list of at least 10 interesting questions
- Sketch
  - At least 3 sketches of visualizations that answer the questions per student
  - Good storyboard sketch for potential dashboard interactions
- Decide
  - Sketches are sensibly clustered and named
  - The result of the group voting is documented
- Prototype
  - Screenshots for at least Tableau bar chart, line chart, area chart, scatterplot, and map
  - Screenshots for Tableau dashboard before and after Test
- Dashboard
  - Dashboard has a clear main message (title, subtitles, text)
  - Visualizations answer the group's main questions appropriately for the audience
  - Dashboard is well designed
- Test
  - Main findings and comments of think aloud study are well documented
  - List of ideas how to improve visualization to address the comments
  - Comments have been addressed in the dashboard re-design
- Process Book
  - Process book is complete and clearly documents the progress throughout the design sprint
- Design Sprint Video
  - 2-minute video (with narration) that presents the resulting Tableau prototype
  - Video and narration are appropriate for a general audience
  - Video is not too long and can be viewed by the TFs