

DATA 31500 Autumn 2024

Assignment 3

Due November 14, 2024

This assignment asks students to create an interactive data story or [explorable explanation](#). Students will use Svelte and D3 to create a short narrative exposition about a dataset, model, or computational process of their choosing. The submission should be post online as a web-page.

Students will *work alone*.

Students should submit their code as zip file on Gradescope. The README of the code should contain a link to a live deployment of the interactive data story.

Technical Specification

First, **students must choose a topic** for their data story. This should not be a replication of an existing data story, such as a piece of journalism, but rather an original composition. For students whose research has a public-interest aspect, this would be a good opportunity to build a cool interactive blog post about your research. For students whose work involves advanced models or computational topics, this would be a good chance to create an explanation you can share to help others learn. For students who have a personal interest in a topic or cause and access to interesting data about it, this is an opportunity to create a narrative exposition about your interest that you can share.

Students will then **build an interactive article**. This should be done in with Svelte and D3 as we've been learning in class. The interactive article must include the following:

1. A deliberate choice of narrative style use for exposition. Consider the narrative styles described in [this paper](#) as possibilities.
2. Informal, consise writing designed for a broad audience.
3. At least two distinct visualizations that update reactively based on user interactions.
4. At least one use of animated transitions implemented in D3.
5. At least one form of active user input (e.g., slider, drop down, pointer-based selection) that enables them to explore.

Remember that the purpose is written narrative supported by interactive visualization of a dataset or computational process. Successful submissions will give careful attention to the design of both written and interative elements.

Finally, students will **deploy and submit their web application**. Here's how you deploy a Svelte application using [Netlify](#) or [Surge](#), which are the options we recommend. This should produce a working url, which should be included in your README file. Then, the codebase including the README file should be compressed into a zip file and uploaded on Gradescope.