

Milestone 2 (Sunday 7th May, 5pm)

Team name : Viz.exe (Emmanuelle Denove, Xavier Theimer-Lienhard, Etienne Boisson)

• **Include sketches of the visualization you want to make in your final product.**

Layout : Slides Website (<https://alvarotrigo.com/fullPage>)

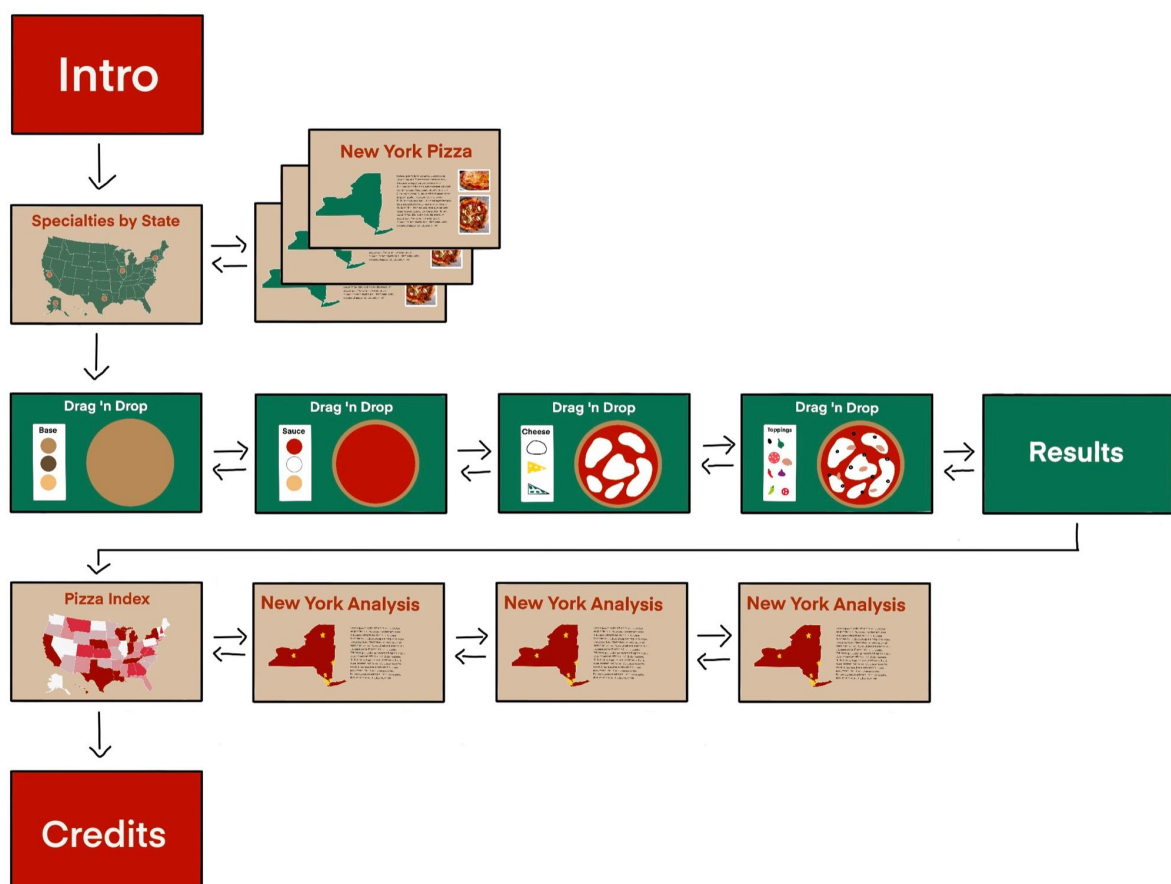
Layer 0 : Intro

1st Layer : Specialities (Map)

2nd Layer : Make your own pizza (Drag and Drop)

3d Layer : Discover the Pizza Index (Map)

4th Layer : Credits



• **List the tools that you will use for each visualization and which (past or future) lectures you will need.**

- The tool for the website format : <https://alvarotrigo.com/fullPage>
- The tools for the map : Lecture on maps ; either use a library for maps such as [Leaflet](#) (combined with GeoJSON) particularly [this one](#), or simply translate geographical coordinates into coordinates on our image of the United States (but this would not allow users to zoom into certain areas)
- The tool for the drag'n'drop or click-select : SVG, [HTML Drag-n-Drop](#), [interact.js](#)
- For the sprites of the pizza drag-n-drop : [Procreate](#)

• Break down your goal into independent pieces to implement. Try to design a core visualization (minimal viable product) that will be required at the end. Then list extra ideas (more creative or challenging) that will enhance the visualization but could be dropped without endangering the meaning of the project.

Core visualization :

The website can be broken down in three parts : Pizza Specialities, Interactive Pizza Maker, Pizza Index.

- One of our main ideas, that we will start with, is to display a map where we can visualize pizza specialties by state in the USA. The goal here is for the user to discover little known pizza specialties and see that there is a large variety of pizza that exists even when just looking at the USA. When hovering with the mouse, it highlights the state and when we click on it, it zooms in to show the state and display the pizza specialties and their information/story in this particular state.
- The second part of the website is an interactive pizza maker. What we mean by this is that the user will have the opportunity to build a pizza from a list of ingredients and discover where they can find this pizza at the lowest price. The goal here is to make a fun interaction whose final point is to raise the question : but why is this pizza cheaper here ? We will draw the ingredients and visualize the pizza evolving while we are selecting ingredients (or we could drag and drop the ingredient, that will be even more interactive !). Then we have a comparison by state where you can find your pizza. One goal is to be able to link that to the social inequality differences between each state. This will lead us to the last visualization.
- The last visualization will highlight the social inequalities we can find between the different states through the prices of pizzas. The idea is quite similar to the Big Mac Index, thus we'll call it the Pizza Index. We will have a colorized map that classifies the states by the Pizza Index and the living cost. We'll also have some text reflecting our analysis on this matter and trying to explain why this contrast exists. This may help us to draw insights about the social and economic differences between states.

We chose to display these visualizations in the order they are listed above. This way, we first begin with a discovery of the immense variety of pizzas in the American territory, sprinkled with anecdotes (or information ?) for each region. After that, we encourage the user to imagine and create their own pizza ! They will then be able to see where this pizza exists and where to find the different prices depending on the different states. Displaying this price comparison between states will lead us to a more serious observation. Indeed, the last visualization will shed light on the social and economical differences between the states, using the pizza as a starting point.

Extra ideas :

- Another idea that came to mind is concerning the immense and still unresolved conflict of pineapple on pizza. Do the people in the USA have different opinions about this topping that completely breaks with tradition ? We can wonder... has this singular pizza spread to every corner of the nation ? Through a proper analysis of the data and using a map to display evidence, we could try to answer this absolutely essential question.
- We could include a map that would show whether there is a link between the total consumption of pizza and the percentage of people with Italian origins in that area.

We think this could be an interesting question that would relate well with the pizza index and could give an insight of whether pizza is still linked to its origins.

Functional project prototype review :

- ***You should have an initial website running with the basic skeleton of the visualization/widgets.***

Our site skeleton is live at <https://com-480-data-visualization.github.io/project-2023-viz-exe/>