**Concept Proposal**

1. Project name
2. Project concept and goals. What is the purpose of the visualization?
3. A description of the intended users and tasks. Remember to talk to REAL POTENTIAL USERS and include any data gathered from this research in your proposal. Proposed user personas and scenarios may be helpful here.
4. Discussion/links of related work if you know of any. Your projects should be original and hopefully build on the work of others.
5. Roles to be performed by team members (e.g. project manager, programmer, designer, usability evaluator, etc.)
6. What data will be used in the visualization. Profile the data, talk about what it contains, what the dimensions are, and how you intend to use it. Don't simply state the source of the data, but tell us a bit about what it contains!
7. What kinds of results you anticipate achieving and what kinds of results you would like to achieve but which you probably do not have the time or the tools for.

**Group draft:**

1. Food For Thought
2. This project seeks to evaluate relationships between what people are eating and where they’re located and the factors and influences in their nutritional choices. The purpose of the visualization is to allow users to explore meal choices others make in other areas of the world, and to inform and educate consumers as a whole.
3. The goal is to engage general public across the world. For data and visualization aficionados, there will be an opportunity to dig into the data and explore in more depth.
4. Food is a popular topic that has been explored in multiple visualizations. Some examples include:
5. Our World Data: <https://ourworldindata.org/meat-and-seafood-production-consumption#how-is-per-capita-food-supply-or-consumption-calculated>
6. Paint Maps: <https://paintmaps.com/statistics/5/Agricultural-land-percentage-of-land-area-on-world-map>
7. National Geographic: <https://www.nationalgeographic.com/what-the-world-eats/>
8. Ankit - Data acquisition/cleaning/analysis  
   Yeva - UX research, project management, data analysis and visualization assist  
   Ian - UX design, UX research assist, data analysis and visualization assist  
   Suman - Data acquisition/cleaning/analysis, visualization assist  
   Monique - Data analysis, visualization and UX research assist
9. Datasets:
   1. Food and Agriculture organization of the UN: <http://www.fao.org/faostat/en/?#data>
   2. Data.gov: <https://catalog.data.gov/dataset/supertracker-source-code-and-foods-database/resource/43a6f7fa-90e0-49be-9e8b-fe6fd5b4bd52>

Broad indicators: Such as Geographic (regional/country) indicators, socio-economic indicators (e.g. disposable income), agri-environmental indicators, nutrition information, etc. We are still in the process of deciding exactly which data types to use for the project, but we will be looking for interesting and insightful correlations and revelations.

1. This project intends to answer questions like: What’s on the plate? How did it get there? If we had more time we could answer questions about the effect of food on public health. Overall, we hope this visualization is valuable.

**Ankit’s draft:**

1. Food For Thought
2. The purpose of this project is to visualize eating habits of people around the world and over time.
3. reddit
4. <https://ourworldindata.org/meat-and-seafood-production-consumption#how-is-per-capita-food-supply-or-consumption-calculated> this is a great example of a walkthrough and analysis of the same dataset we intend to use.

Here is another example of an interactive map - <https://paintmaps.com/statistics/5/Agricultural-land-percentage-of-land-area-on-world-map> I think we can make the map something about carbon emissions or land user and the hover over for countries can be a pie chart breakdown of their agriculture/livestock type distribution

1. Ankit - programmer
2. The data is from the UN Food and Agriculture Organization <http://www.fao.org/faostat/en/?#data/>
3. There are a lot of different cuts we can make of the data but I believe we will have to spend our time wisely and choose a small set of attributes in the data set to work with. Valuable.

**Yeva’s draft:**

1. Food for Thought
2. How might we help people better understand global trends in food production and consumption over time and how these trends influence the composition of regular food intake of families around the world? [HCDE context, visualizations as solutions]
3. Users include people from all over the world: curious minds, foodies, data enthusiasts, nutrition-minded individuals, visualization aficionados, academic community, etc.
4. Food is a popular topic that has been explored in multiple visualizations. Some examples depicting trends over time or focusing on a particular category include:

* [The changing global diet](https://ciat.cgiar.org/the-changing-global-diet/) [Team - we need to be careful here not to replicate an existing body of work]
* [Change in the British diet since 1974](https://flowingdata.com/2016/04/28/change-in-the-british-diet-since-1974/)
* [Food network across cultures and geographies](https://flowingdata.com/2011/12/27/backbone-of-the-flavor-network/)
* [Most used ingredients by cuisine](https://flowingdata.com/2018/09/18/cuisine-ingredients/)

1. Yeva - UX researcher, project manager, data analysis and visualization assistance, final paper drafting assistance
2. [*Food and Agriculture organization of the United States*](https://ourworldindata.org/meat-and-seafood-production-consumption#how-is-per-capita-food-supply-or-consumption-calculated) breaks down the data by multiple production categories, annual and monthly price points including indexes. In addition, agri-environmental indicators such as energy, fertilizers, water, soil, pesticides, as well as the emissions by sector (e.g. transport, waste) are listed. Further, United Nations’ [*Our World In Data*](https://ourworldindata.org/meat-and-seafood-production-consumption#how-is-per-capita-food-supply-or-consumption-calculated) also has detailed statistics on global meat and seafood production and consumption. We are still in the process of deciding exactly which data types to use for the project, but most likely we will be looking for interesting and insightful correlations and revelations.
3. We are considering taking a wide-to-narrow approach by evaluating trends and changes in food production and consumption over time to understand what influences food intakes of families around the globe. Basically, we would be assessing what’s on the plate (literally and figuratively) and why it gets there.

**Ian’s draft:**

1. Food Power
2. Efficiency, representation of a general meal in an area and its attributes.
3. Person who is wanting to be informed about what types of diets to be looking into, possibly a reddit.com type of user who likes data.
4. I liked the extra data on hover from this visualization, as well as the story idea, where you click on the links at the bottom left and it highlights parts of the story that the authors found notable. http://roadskillmap.com
5. UX Design, Usability
6. We’ve already seen some impressive stats on the use of resources in the production of meat-based foods, and I’m anticipating that there will be some extremely interesting visualizations that can be conveyed using this dataset. One could be emissions for various food types, another proteins and vitamins vs emissions, ie efficiency of the different uses of resources.
7. If it makes sense with the visualizations that we come up with, I would love to do something like the “What a week of groceries looks like around the world” photography project. <https://fstoppers.com/food/what-week-groceries-looks-around-world-3251> but likely simplified as compared to that. Maybe designs of all sorts of meals would be outside of the scope, but icons and images of the base foods, ie wheat or cows could have icons that could be included in the visualization for specific areas.

**Suman’s draft:**

1. Project name: Food for Thought/Food Diversity/Global Food Heritage

2. Project concept and goals. What is the purpose of the visualization?

The project aims to provide a thorough understanding of the different kinds of food people eat across various geographies, and their nutritional information

The purpose of the visualization is to give an easy way for the user to interact with the dataset to answer questions on world food habits, as well as on their nutritional values.

3. A description of the intended users and tasks. Remember to talk to REAL POTENTIAL USERS and include any data gathered from this research in your proposal. Proposed user personas and scenarios may be helpful here.

Disclaimer: Did not talk to real users. Proposed users would be foodies who are eager to explore global eating habits and what kind of nutrition each of these foods provides. The other persona is a nutritionist who would like to keep a track of the nutrition values of foods across the world.

4. Discussion/links of related work if you know of any. Your projects should be original and hopefully build on the work of others.

I found a couple of project ideas in Kaggle as well as the visualization that Ankit showed off in the class to be interesting.

5. Roles to be performed by team members (e.g. project manager, programmer, designer, usability evaluator, etc.)

Suman: data engineer, programmer. Data acquisition, cleaning and analysis, building visualizations

6. What data will be used in the visualization. Profile the data, talk about what it contains, what the dimensions are, and how you intend to use it. Don't simply state the source of the data, but tell us a bit about what it contains!

In addition to the data that Ankit described, I would also suggest if we can use the food dataset from data.gov at<https://catalog.data.gov/dataset/supertracker-source-code-and-foods-database/resource/43a6f7fa-90e0-49be-9e8b-fe6fd5b4bd52>

This dataset contains the nutritional value including the percentage daily values as well as the macro and micro nutrient content in common foods including vegetables, meat, seafood etc.

7. What kinds of results you anticipate achieving and what kinds of results you would like to achieve but which you probably do not have the time or the tools for.

I would like to get a visualization of at least the world food habits across different geographies. In addition, I would like to include the information on the food nutrition values if we are able to. There are also a few other options such as relation to land use, carbon emissions and so on. We need to narrow down to only one or two such scenarios in order to meet the current project deadlines.

**Monique’s Draft**

1. Food for Thought
2. The purpose of the visualization is to look at how the food consumption behavior changes as the people have an increased number of disposable income and improvement on social economics, how does the change of food consumption behavior does to the public health, and how is the health issue relates back to social behavior.
3. Users can be social scientists studying human behavior, also government health agencies trying to figure out food consumption patterns…

[Meat and Seafood Production & Consumption](https://ourworldindata.org/meat-and-seafood-production-consumption)

[Visualizing a Rapidly Changing Global Diet](http://www.visualcapitalist.com/visualizing-rapidly-changing-global-diet/)

[What the World Eats](https://www.nationalgeographic.com/what-the-world-eats/)

1. Monique - Data analysis, data visualization, draft final paper.
2. Total consumption in monetary value, from Indicators from Household Surveys (gender, area, socioeconomics)-FAOS

Diabetes prevalence (% of population ages 20 to 79) - World Bank

Life expectancy at birth, total (years)- World Bank

Disposable income by country

1. We will try to figure out the links and causal effects among social changes, food consumption behavior, and the public health, and identify the best improvement pattern.

Previous projects for reference:

<https://public.tableau.com/profile/jing.xu3915#!/vizhome/worldhappinessmap2016/WorldHappinessData2015?publish=yes>

<https://public.tableau.com/profile/steve.schenk#!/vizhome/PhishStoryFinal/PhishTale>

<https://public.tableau.com/profile/tyson2704#!/vizhome/KingCountyData/PublicDashboard?publish=yes>

<https://public.tableau.com/profile/kate.schenot#!/vizhome/K-12VaccinationRatesinWA2015-2017/K-12VaccinationRatesinWA2015-2017>