1. Ideas

Global Temperation & Air Pollution

[Button]   [Button]

Global Temperation

Global Air Pollution

2. Filter

Global Temperature Heatmap

Latitude / Longitude

Global Temperature bulle Plot

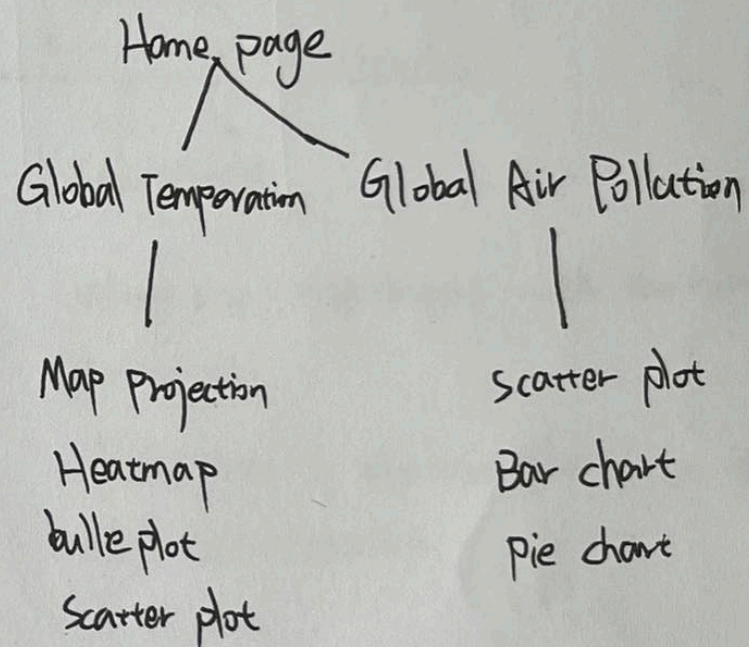Latitude / Longitude

Display data in a multi-dimensional way.

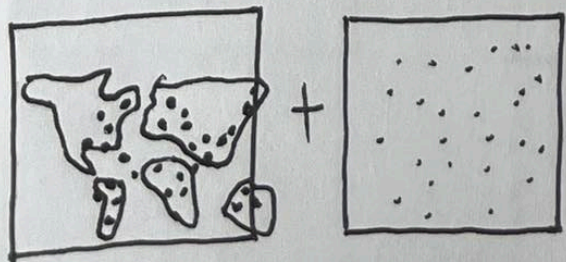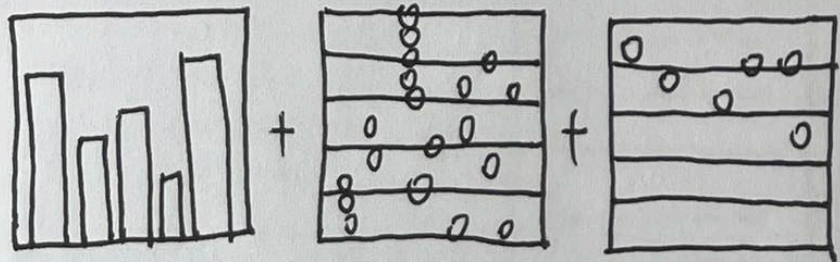So. Two visualization methods to show the same data.

3. Categorize

Use three HTML pages to give enough space for the data visualization of the two subjects.

Home page

Global Temperation   Global Air Pollution

Map Projection   Scatter plot
Heatmap   Bar chart
bulle plot   Pie chart
Scatter plot

4. combine and Refine

Bar chart
+
Pie chart
+
Scatter plot
+
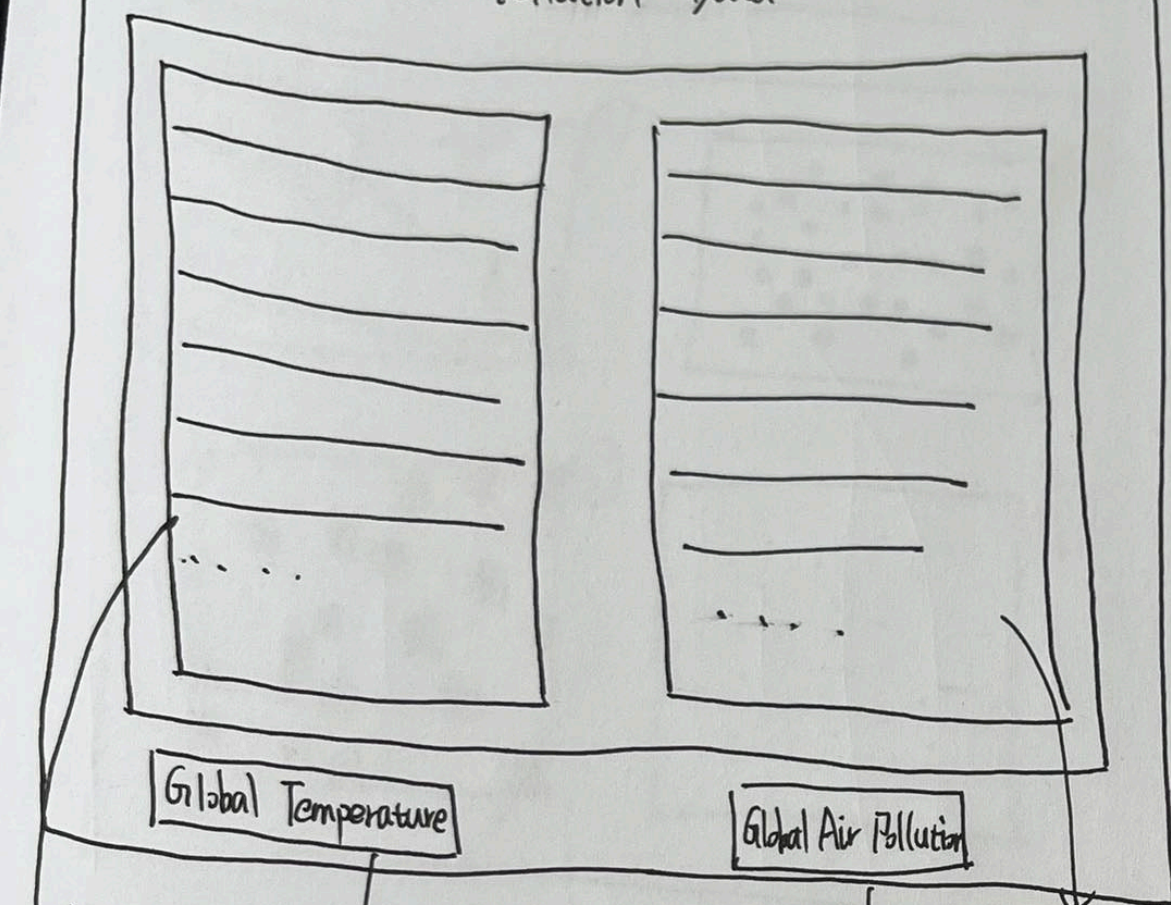Map projection
+
Scatter plot

Question.

Are there visualizations well designed?

How to place the style of a web page reasonably?

Layout

Home Page

Visualization of Global Temperature Data and Air Pollution Data

| Global Temperature | | Global Air Pollution |

Describe (Describe the context for visualizing global temperature data)

Button
(Jump to the global temperature page)

Describe (Describe the context for visualizing global Air Pollution.)
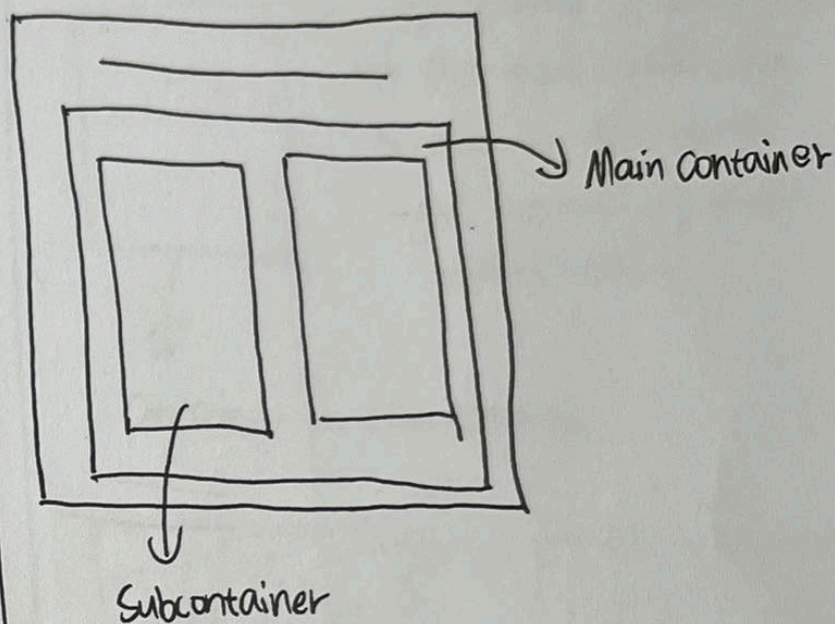
Button
(Jump to the global Air Pollution.)

Title:

Auther: Aoran Li

Date: 1/10/2024
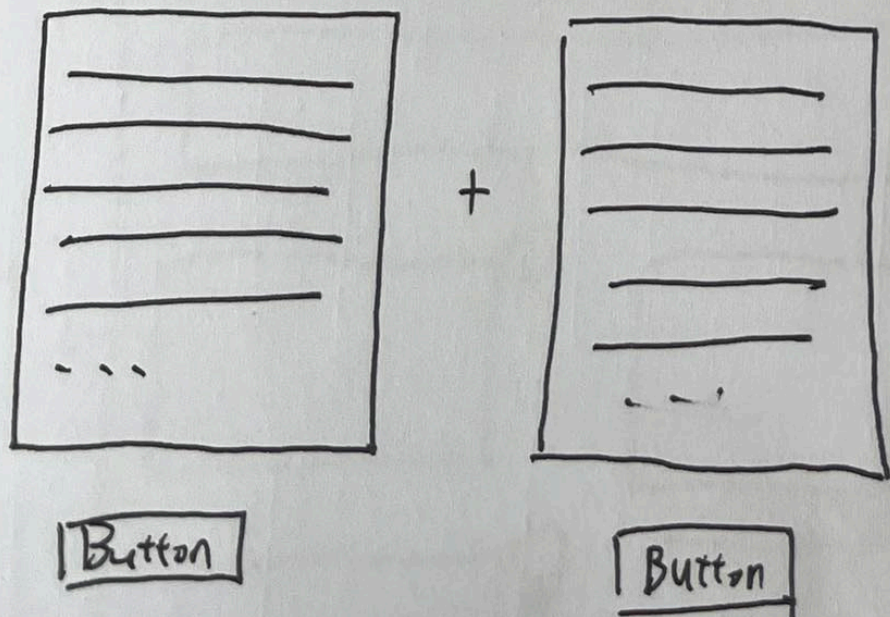
Sheet: 2

Task: Design Home Page

Operation

Main container

Subcontainer

Wrap two subcontainers with the main container.

Description of the data placed in the two subcontainers.

Focus

Button   +   Button

Data background

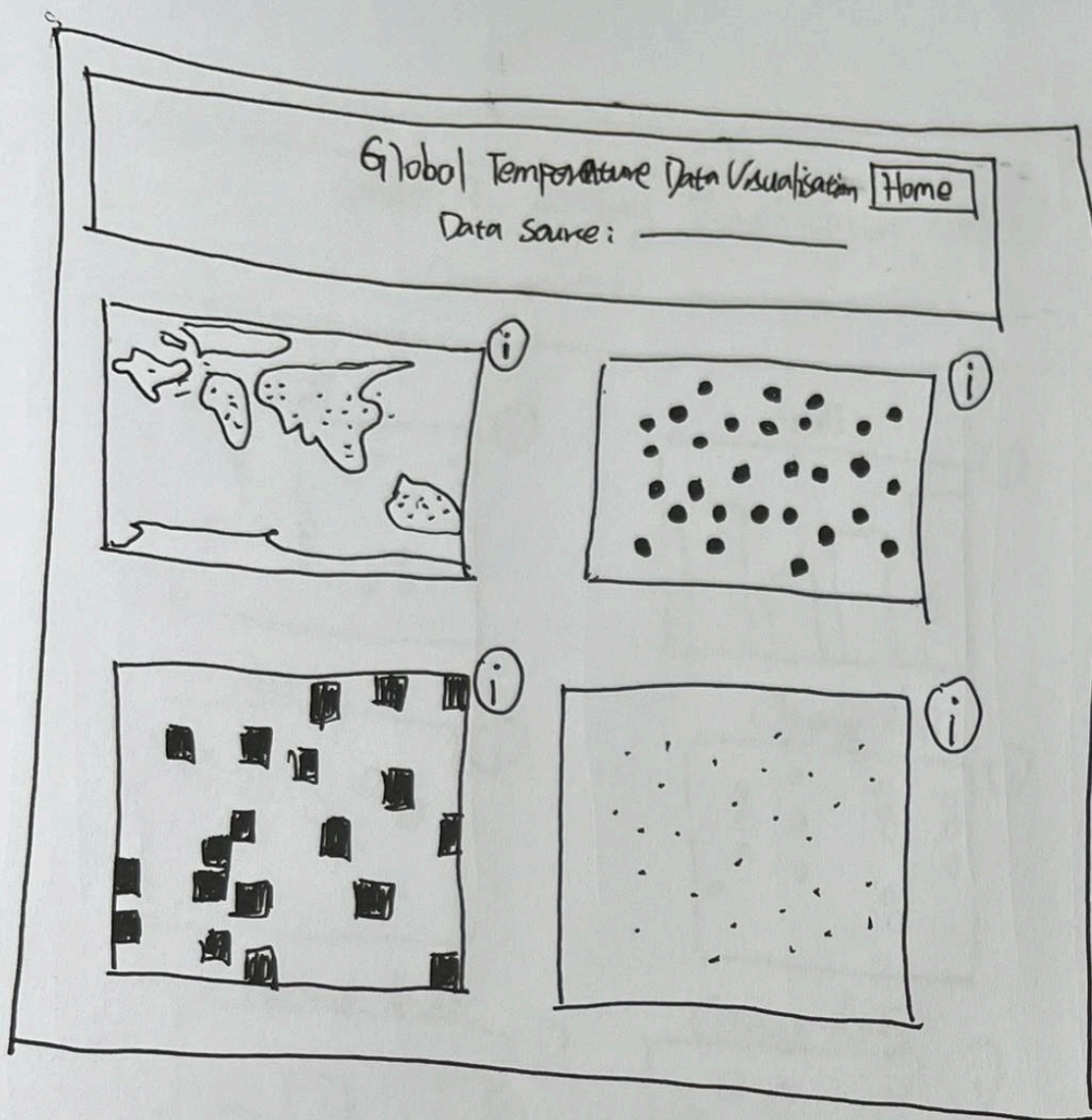Describe the two topics to set the stage for visualization.

Detail

Describe the background

Provide a main page to jump to two different themed visualization web pages.
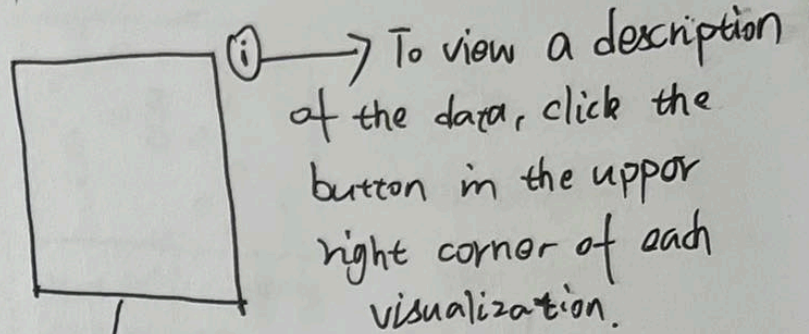
Make visualization project very organized.

Layout

Global Temperature Data Visualisation [Home]
Data Source: _____

Operation

To view a description of the data, click the button in the upper right corner of each visualization.
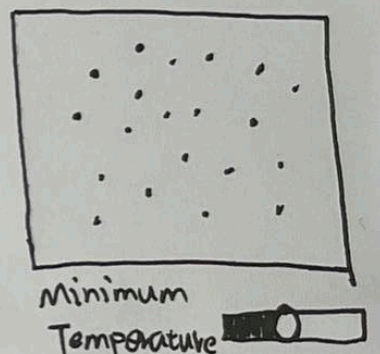
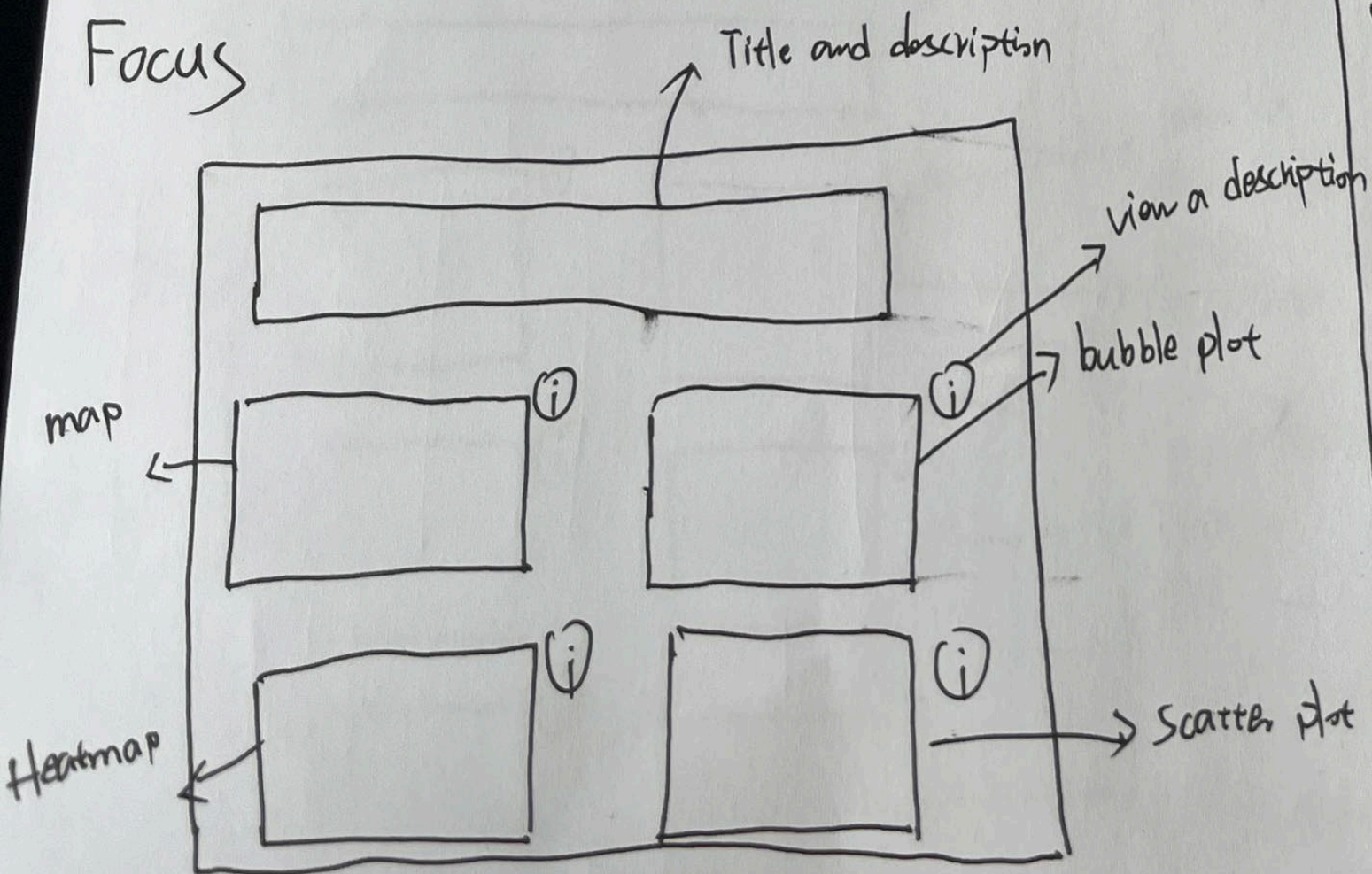Container for visualization

select Month [May]

Select month to display data for a different month.

Minimum Temperature

use the slider to see which countries have different temperature.
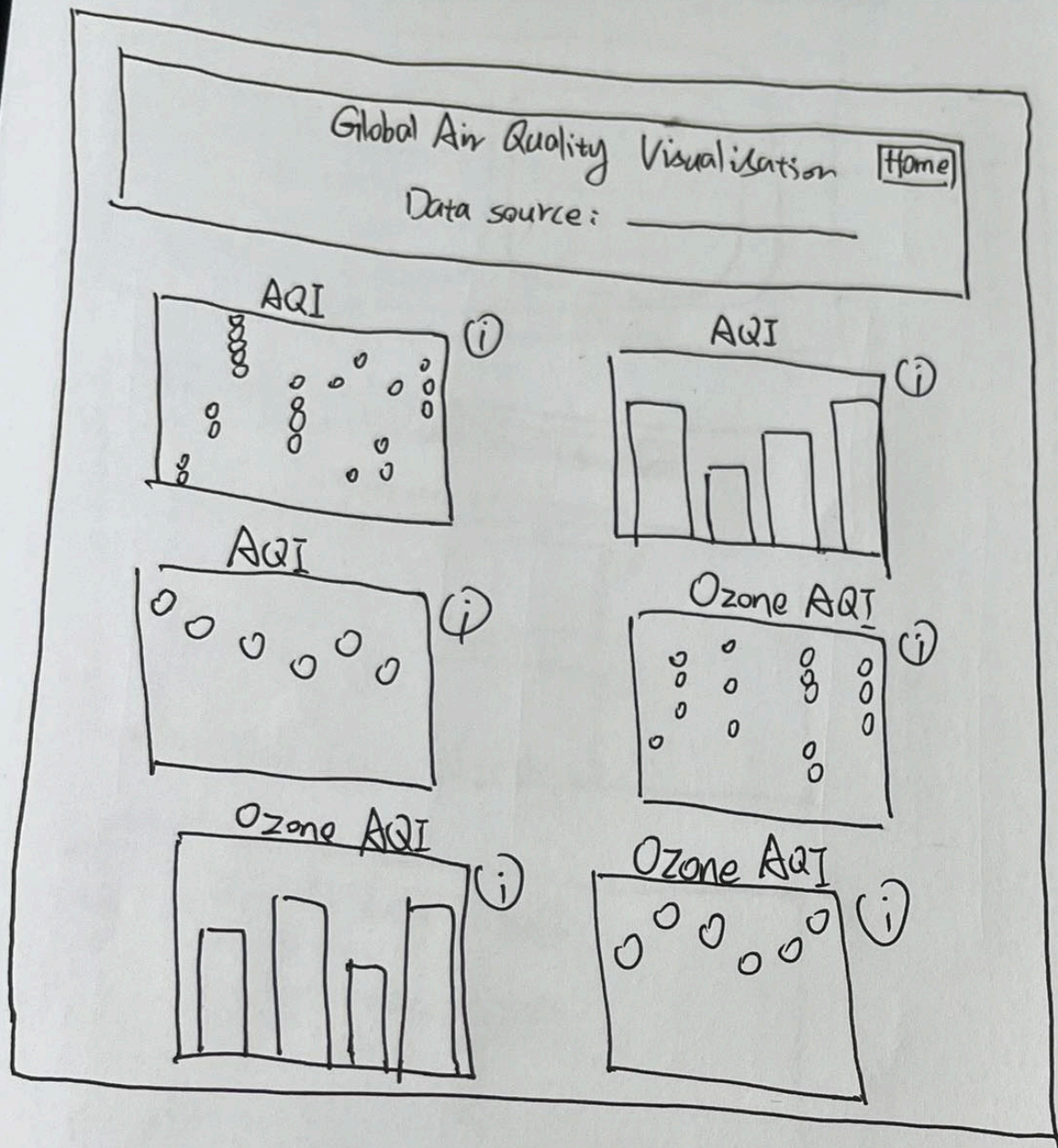
Focus

Title and description

view a description

bubble plot

map

Heatmap

Scatter plot

Detail

Use buttons and pop-ups to display visualization descriptions.

This saves space and makes the entire page more beautiful.

Layout

Global Air Quality Visualisation [Home]

Data source: _____
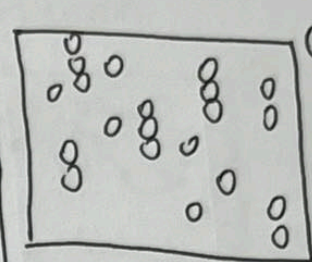
AQI

AQI

AQI

Ozone AQI

Ozone AQI

Ozone AQI

Title:

Author: Aoran Li

Date: 1/10/2024

Sheet: 4

Task: Design Global Air Quality Page.

To view a description of the data.

Select AQI Category

[All ▾]

Select AQI Category to display data for a different AQI

Six visualizations to show AQI and Ozone AQI.

Focus

Title and description
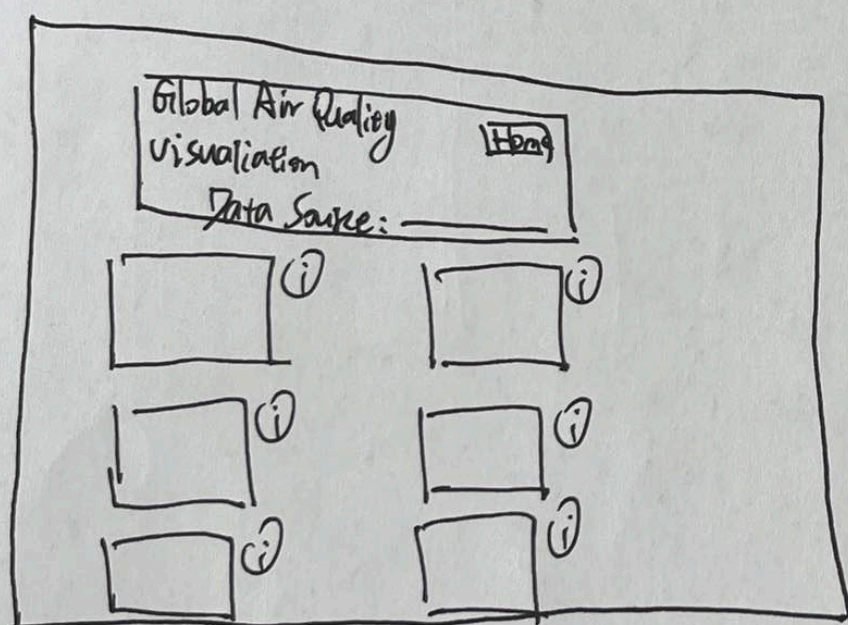
View a description

AQI Bar chart

Ozone AQI Scatter plot
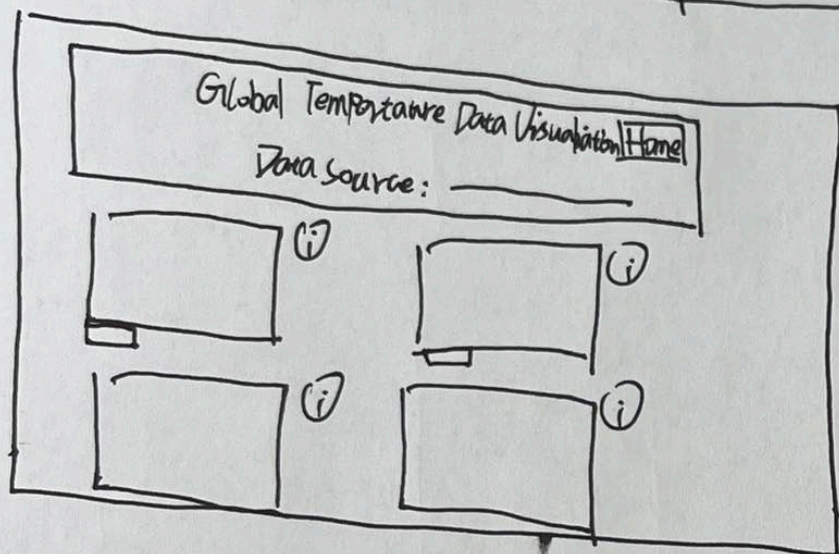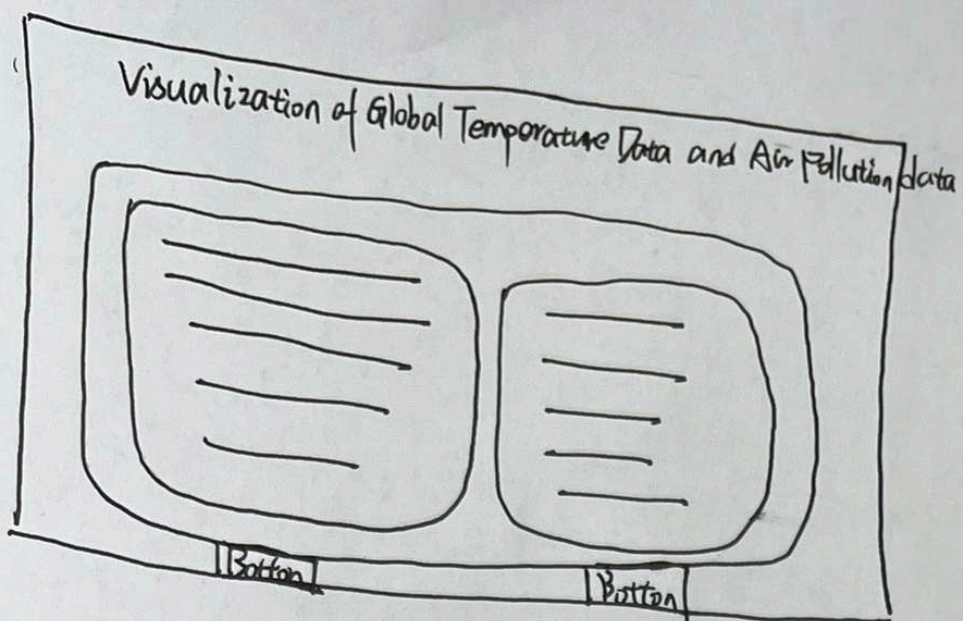
Ozone AQI Pie chart

AQI scatter plot

Set AQI Pie chart

Ozone AQI Bar chart

Detail

Use the selection bar to interact

Using the same three visualizations to show the two types of data allows for better comparison.

Layout

Visualization of Global Temperature Data and Air Pollution data

[Button]   [Button]

Global Temperature Data Visualization [Home]
Data source: _____

ⓘ   ⓘ
ⓘ   ⓘ

Global Air Quality
visualization   [Home]
Data Source: _____

ⓘ   ⓘ
ⓘ   ⓘ
ⓘ   ⓘ

Title: Final Design sheet

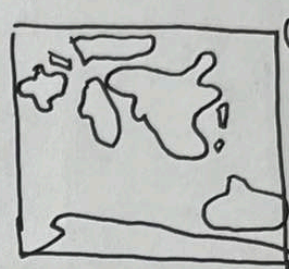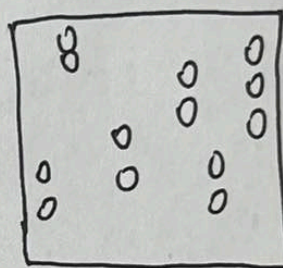Author: Aoran Li

Date: 1/10/2024

Sheet: 5

Task:

Operation

ⓘ The distribution of temperature around the world is shown through map projection.

ⓘ Scatter plot is an important visualization of Global Air Quality visualisation. It can the AQI values of various ~~data~~ countries and their ratings.

Focus

Each page has a button to return to the home page, which is for the convenience of returning to the home page to view other pages.

Use multiple visualization to display data and provide a selection bar for visualization.

Moving the mouse over each visualized data point will display the detailed data of that data point.

Detail

Three web pages, navigation page, Global Temperature Data visualization and Global Air Quality visualisation.

The whole project is very well organized.