Activity 7 :

Ganesh Gundekarla

117000551

Questions

Creating a pie chart in D3.js with any suitable dataset.

Gist raw link :

<https://gist.githubusercontent.com/gnevercodes/aa93a0d9879ebc972d2d5fa2c2f12091/raw/31677b26680179940e61ab801fc12c6b2ae4918d/gistfile1.txt>

displaying the viz hub pie chart :

A screenshot of a computer screen

AI-generated content may be incorrect.

Vizhub link :

<https://vizhub.com/gnevercodes/52753cb3ae694224b081f22abc6cba81?edit=files&file=index.html&tabs=index.html%7EREADME.md>

Dataset explanation :

This data set shows us with the global energy consumption occurred across the year 2022 which includes two types of energy renewable and non renewable energy types. This can provide us with a more improved pie chart.

Attributes :

Energy source : type of energy which is a string.

Consumption : which is displayed in terra watt hours ( energy consumed ) .

Type : this is divided into three types ( fossil / renewable / non renewable) .

Renewable : this is a Boolean type indicating whether it’s a renewable source or not.

Visualization explanation :

This pie chart here displays us with the global energy consumption in 2022 . Each slice here presents us with the amount of energy which is being consumed from that particular source which is measured in Terra Watt Hours.

The legend on the top left shows us both the details like the type of source and the kind of source like it is Fossil , nuclear or renewable.

Key points :

1. Fossil fuels continue to dominate the chart like coal, oil , natural gas.
2. Renewable energy sources are being used but are visibly smaller.
3. This chart presents us with the heavy usage of nonrenewable sources and tells us the need for a much cleaner energy source.

Question 2 :

Creation of area chart using any dataset :

Raw gist link :

<https://gist.githubusercontent.com/gnevercodes/567612cbddd7b8b4b06757f3c47362d6/raw/4b98d351ea7b1c1a6e6e7f29c8c7d72ecd583f67/gistfile1.txt>

dataset explanation :

this dataset is based off ‘ global average temperature which is for the following years 1880-2022’

this dataset contains with how the earth’s average surface temperature and how it has changed over the year by year .

this dataset can be important for analyzing climate change . This shows change over time which is helpful for creating area chart.

A screenshot of a computer

AI-generated content may be incorrect.

Chart analysis :

This area chart presents us with a clear trend observed in the global temperature from the years 1880 – 2022 . this temperature rise is sharper over the years 1970 which reflects us with a growing impact of globalization and industrialization and gases.

Viz hub link :

<https://vizhub.com/gnevercodes/79f38d254f0a4ac68a1d9e614a3ff5dc?edit=files&file=index.html>