



TerraViz

A map visualization web-app

Our vision is to make climate change tangible!

Problem

Yearly increase of overall CO2 emissions



Only $\frac{2}{3}$ of world population see climate change as emergency



Climate Change



**10.1 million acres were burned in 2020
= $\frac{1}{3}$ of the area of Germany**

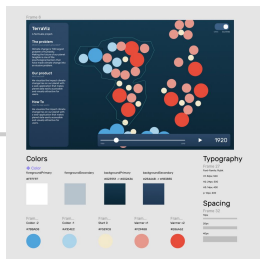


Global water temperature rose 1.3°C over the last century

Solution

DS

How can we best prepare the necessary data?



```
[
  {
    "dt": 1743,
    "Country": "Albania",
    "AverageTemperature": 8.62,
    "latitude": 41.153332, "longitude": 20.168331
  }, ...]
```

WD

How can we best present this topic to the user?



Webapp
Interactive Visualization

Demo

Video Link :

<https://www.loom.com/share/198306b728c744a99ef7bd2313aa4f5f>

Tech Stack

WD(Front-end)



DS



Design



Base Map



Deployment



Success Story

What we are happy about :

- ▮ Successfully delivered our MVP
- ▮ Designed our app together without UX/UI designer

What challenges we faced:

- ▮ How to render the large size of dataset properly synced with the time slider
- ▮ Generally concerned about some performance issues with the data
- ▮ Challenged to make the map and slider work in React since React and map visualizations don't mesh well (Vanilla JS would be preferred)

Team Members

DS



Lukas Hoppe



Florian Deters



Bastian van der Put

WD



Timea Varju



Seong-eun Kim

Mentor



Allan Jorge

Contributor (Logo Design) : Alba Pardo Alonso

Thank you!



TerraViz