Animals: The Extinction Series

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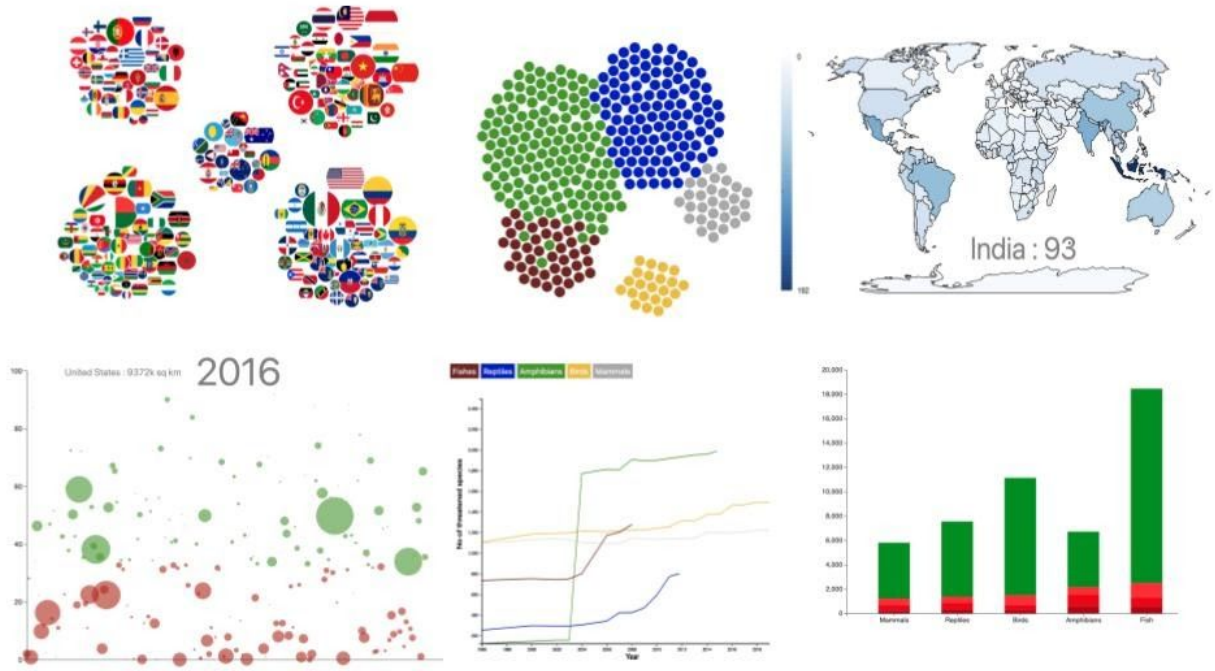

We have designed the project intending to spread awareness about threatened wildlife. We have implemented scrolly telling in our project. We begin by highlighting the damage humans have caused by indicating the growing number of threatened species. We follow it up by highlighting the impact of industrialisation, decline in forest cover and other causes has had on wildlife. Then we throw light on the extinct wildlife. Lastly, we inform the user about the different conservation efforts across the world and how they can contribute to the same.

The data for the project is obtained from reliable sources -

1. IUCN Red List https://www.iucnredlist.org/resources/spatial-data-download
2. World Bank dataset - https://data.worldbank.org

Most plots in the scrolly telling support at least one form of interaction and designed keeping the end-user in mind. The first line graph indicates the change in the number of threatened species over time. The following choropleth highlights the number of threatened species by country. The industrialisation graph supports dynamic querying and can be viewed as both a line chart and scatter plot. Different metrics can be selected in the dropdown to visualise the performance of each country over time for that particular metric. An interactive bar chart is included to highlight the numbers of each category of wildlife which can be viewed as a percentage or as the total number. Clicking on a particular bar only shows that category in the graph. The following scatter plot shows the decline of forest cover over time. The size of each circle corresponds to the size of the country and on hovering shows the name of the country and land area. The next graph is a bee swarm plot that allows you to view the data in several representations. Viewing the chart by selecting the "Country Centers" in the dropdown and "Flags" radio button provides a compelling visualisation. Our last visual uses unit visualisation to display extinct species and group into different colours by category. Hovering on each unit visualisation reveals more about that extinct animal.

Tech Stack -
Frontend - HTML, CSS, Javascript, D3.js, Bootstrap, Ajax, Scrollama
Backend - Python(backend server only)
Version Control - Git(GitHub)
GitHub Project Repository - https://github.com/KarthikNA/IUCN-Interactive-StoryTelling