

GRD - GDD- Data Visual

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Concept

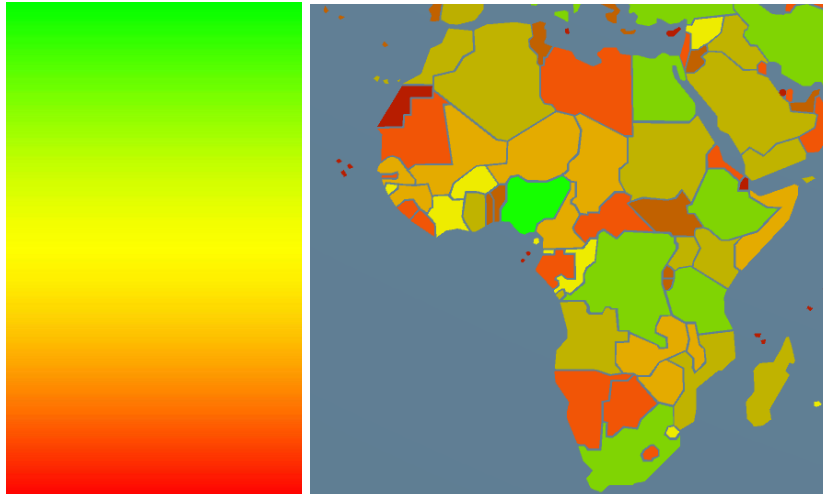
This project is a tool used to show the total population of each country, through the years starting from 2000 as well as the current growth rate on a map of the world. Also coloring in the countries based on rank.

Core

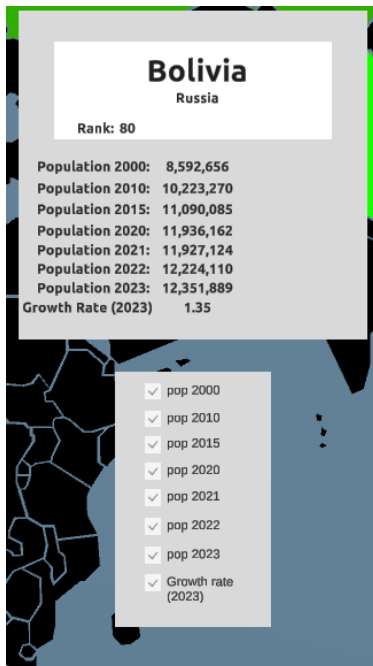
At its core, using a 2d map asset with clickable functionality for each individual country, the user can select any country on the map and will be shown the specified data of what they want to know, specifically population of the country and growth rate.



Each country will change color depending on its ranking to signal that the higher the ranking (greater the population), the greener it is and as you go down the rankings it changes to red.



There are UI elements on the right hand side to toggle the data, based on what the user wants.



User Interface

Basic UI on the edges of the screen, Right side of monitor, with the country, key figures and options. Colours on each country signaling population rank.



Camera

We chose to use a 2d asset so that the user could potentially screenshot the information for their own use, and if it's a globe then they won't be able to see everything. Because of this the camera is fixed on the map but you can move the camera around and zoom in and out.

Input

Mouse is the only physical input, to move the camera by clicking and dragging, select the country with left click and to toggle the shown data. The data that is inputted is a .CSV file which can be edited in excel to add or change data.

Audio

There is no audio as the project does not need audio.

Graphics

Simple 2d vector graphic and text boxes with a default font for readability.

Stretch Goals

Further expand upon types of available data. Example would be the possibility of including age demographics into the model to see which countries have an older/younger population.

Adding the ability to compare countries and see a visual indicator on the statistical differences.

World's Population at 8 BILLION PEOPLE

Around November 2022, the world will reach a pivotal milestone—8 billion global population. What is the distribution of this population, by region and country?

Regional Population Data:

Region	Population (Billion)
North America	0.56M
South America	0.49M
Africa	1.2B
Europe	0.67M
Asia	4.7B
Oceania	0.04M

Country Population Data (in millions):

Country	Population
China	1,450
India	1,410
U.S.	335
Brazil	216
Pakistan	231
Nigeria	218
Indonesia	280
Russia	146
Germany	81
France	66
Italy	60
Spain	47
UK	69
Canada	39
Mexico	132
Japan	126
South Korea	51
Iran	86
Turkey	86
Poland	38
Sweden	10
Belgium	11
Portugal	10
Spain	47
Italy	60
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