

HTML/CSS/JS implementation Challenge

Using the following dataset: `poverty_example.json` turn the design mock-up shown below into a live interactive webpage. You are free to use any libraries or tools you would like so long as the page is able to load in a modern web browser (don't worry about IE or supporting older browsers). The assignment will be used to gauge how you approach the implementation of turning a design into a working webpage and NOT a pixel perfect implementation of the design. Here is the design below (also provided as a separate image).

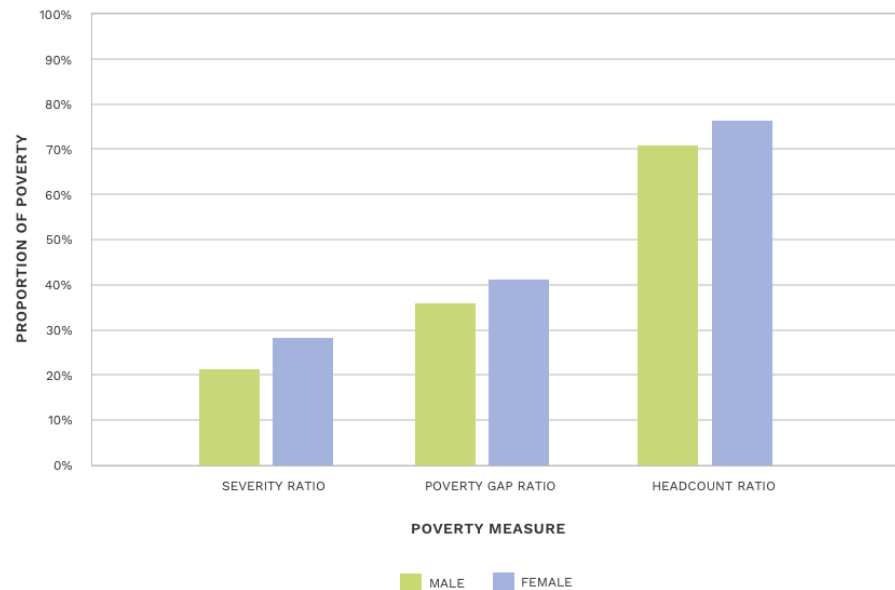
Poverty Measures by Gender

OPTIONS

WAGE

\$1.90/day (2011 PPP)

A little bit of text about this chart. What does it all mean? Insight highlighted here.



Interaction

The final product needs to have is a dropdown which updates the bar chart on the right. The 2 values to toggle between are the “poverty_level” values in the dataset attached. Their display names should be:

Id	Display Name
ppp1	\$1.90/day (2011 ppp)
ppp2	\$3.10/day (2011 ppp)

Also be sure to consider a tooltip so that as users hover over the legend and bars they are shown details about what they are seeing.

Database

Although the dataset is small enough to be read from a flat file at run time, the expectation is that a database will be used. The specific type of database does not matter so long as the requested data shown in the visualization are served from the database of your choosing.

Data Description

The dataset provided is a JSON object with the “data” and “headers” separated. Below is a description of the data values.

Key	Description
povgap	poverty gap ratio
sevpov	poverty severity ratio
poverty_geo_name	name of the geography being shown (in our example this will always be Nigeria)
poverty_geo	id of the geography being shown (in our example this will always be 040PGNGA)
gender	male or female
poverty_level	either ppp1 or ppp2 (The ppp1 value of poverty_level stands for the \$1.90/day poverty level and ppp2 value stands for \$3.10/day poverty level)
hc	poverty headcount ratio

Deliverable

- A Github link to all the source files needed to run this example locally as well as documentation to run the example.
- An oral presentation of your development process when implementing and walkthrough of your code. Expect to justify why you made certain assumptions or decisions.

