## Latitude - Latitude Analysis Dashboard with Attitude

For this homework we'll be creating a visualization dashboard website using visualizations we've created in a past assignment. Specifically, we'll be plotting [weather data](Resources/cities.csv).

In building this dashboard, we'll create **individual pages for each plot and a means by which we can navigate between them.** These pages will contain the **visualizations and their corresponding explanations**. We'll also have a **landing page, a page where we can see a comparison of all of the plots, and another page where we can view the data used to build them.**

### Website Requirements

For reference, see the ["Screenshots" section](#screenshots) below.

The website must consist of 7 pages total, including:

1. A [landing page](#landing-page) containing:

~~\* An explanation of the project.~~

~~\* Links to each visualizations page.~~

1. Four [visualization pages](#visualization-pages), each with:

~~\* A descriptive title and heading tag.~~

~~\* The plot/visualization itself for the selected comparison.~~

~~\* A paragraph describing the plot and its significance.~~

1. A ["Comparisons" page](#comparisons-page) that:

\* Contains all of the visualizations on the same page so we can easily visually compare them.

\* Uses a bootstrap grid for the visualizations.

\* The grid must be two visualizations across on screens medium and larger, and 1 across on extra-small and small screens.

1. A ["Data" page](#data-page) that:

\* Displays a responsive table containing the data used in the visualizations.

\* The table must be a bootstrap table component.

\* The data must come from exporting the `.csv` file as HTML, or converting it to HTML. Try using a tool you already know, pandas. Pandas has a nifty method appropriately called `to\_html` that allows you to generate a HTML table from a pandas dataframe. See the documentation [here](https://pandas.pydata.org/pandas-docs/version/0.17.0/generated/pandas.DataFrame.to\_html.html)

The website must, at the top of every page, have a navigation menu that:

* Has the name of the site on the left of the nav which allows users to return to the landing page from any page.
* Contains a dropdown on the right of the navbar named "Plots" which provides links to each individual visualization page.
* Provides two more links on the right: "Comparisons" which links to the comparisons page, and "Data" which links to the data page.
* Is responsive (using media queries). The nav must have similar behavior as the screenshots ["Navigation Menu" section](#navigation-menu) (notice the background color change).
* Finally, the website must be deployed to GitHub pages.

When finished, submit to BootcampSpot the links to 1) the deployed app and 2) the GitHub repository.

### Considerations

* You may use the [weather data](Resources/cities.csv) or choose another dataset. Alternatively, you may use the included [cities dataset](Resources/cities.csv) and pull the images from the [assets folder](Resources/assets).
* You must use bootstrap. This includes using the bootstrap `navbar` component for the header on every page, the bootstrap table component for the data page, and the bootstrap grid for responsiveness on the comparison page.
* You must deploy your website to GitHub pages, with the website working on a live, publicly accessible URL as a result.
* Be sure to use a CSS media query for the navigation menu.
* Be sure your website works at all window widths/sizes.
* Feel free to take some liberty in the visual aspects, but keep the core functionality the same.

### Bonuses

* Use a different dataset! The requirements above still hold, but make it your own.
* Use a bootstrap theme to customize your website. You may use a tool like [Bootswatch](https://bootswatch.com/). Make it look snazzy, give it some attitude. If using this, be sure you also meet all of the requirements listed above.
* Add extra visualizations! The more comparisons the better, right?
* Use meaningful glyphicons next to links in the header.
* Have visualization navigation on every visualizations page with an active state. See the screenshots below.

### Screenshots

This section contains screenshots of each page that must be built, at varying screen widths. These are a guide; you can meet the requirements without having the pages look exactly like the below images.

#### Landing page

Large screen:

![Landing page large screen](Images/landing-lg.png)

Small screen:

![Landing page small screen](Images/landing-sm.png)

￼

#### Comparisons page

Large screen:

![comparison page large screen](Images/comparison-lg.png)

Small screen:

![comparison page small screen](Images/comparison-sm.png)

#### Data page

Large screen:

![data page large screen](Images/data-lg.png)

Small screen:

![data page small screen](Images/data-sm.png)

#### Visualization pages

You'll build four of these, one for each visualization. Here's an example of one:

Large screen:

![visualize page large screen](Images/visualize-lg.png)

Small screen:

![visualize page small screen](Images/visualize-sm.png)

#### Navigation menu

Large screen:

![nav menu large screen](Images/nav-lg.png)

Small screen:

![nav menu small screen](Images/nav-sm.png)

### Copyright

Trilogy Education Services © 2019. All Rights Reserved.