- A landing page containing:
  - An explanation of the project.
  - Links to each visualizations page.
- Four 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.
- A "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.
- A "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

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

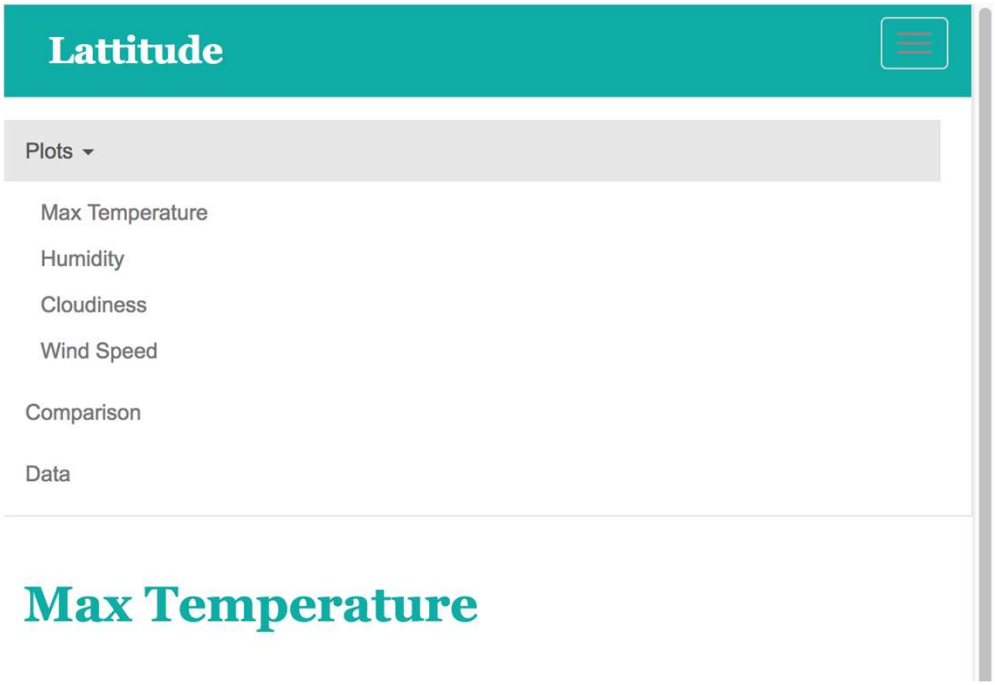
- Has the name of the site on the left of the nav which allows users to return to the landing page from any page.
- Contains a dropdown on the right of the navbar named "Plots" which provides links to each individual visualization page.
- Provides two more links on the right: "Comparisons" which links 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 (notice the background color change).

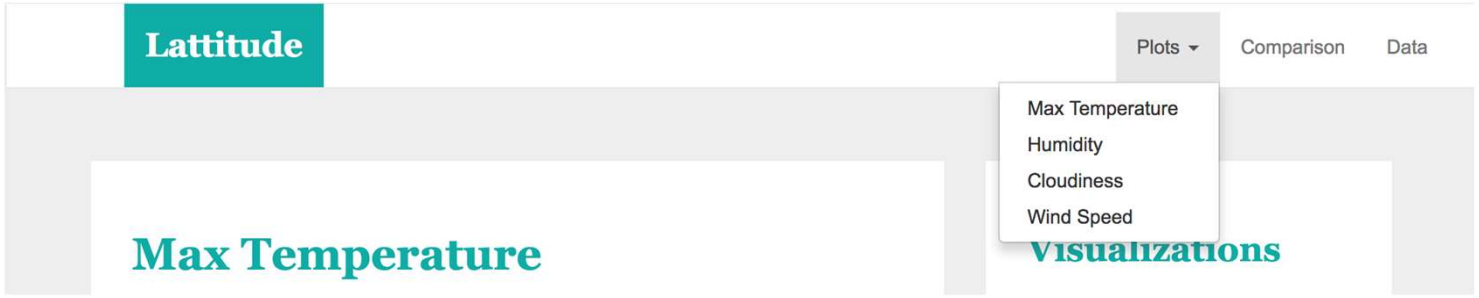
Considerations

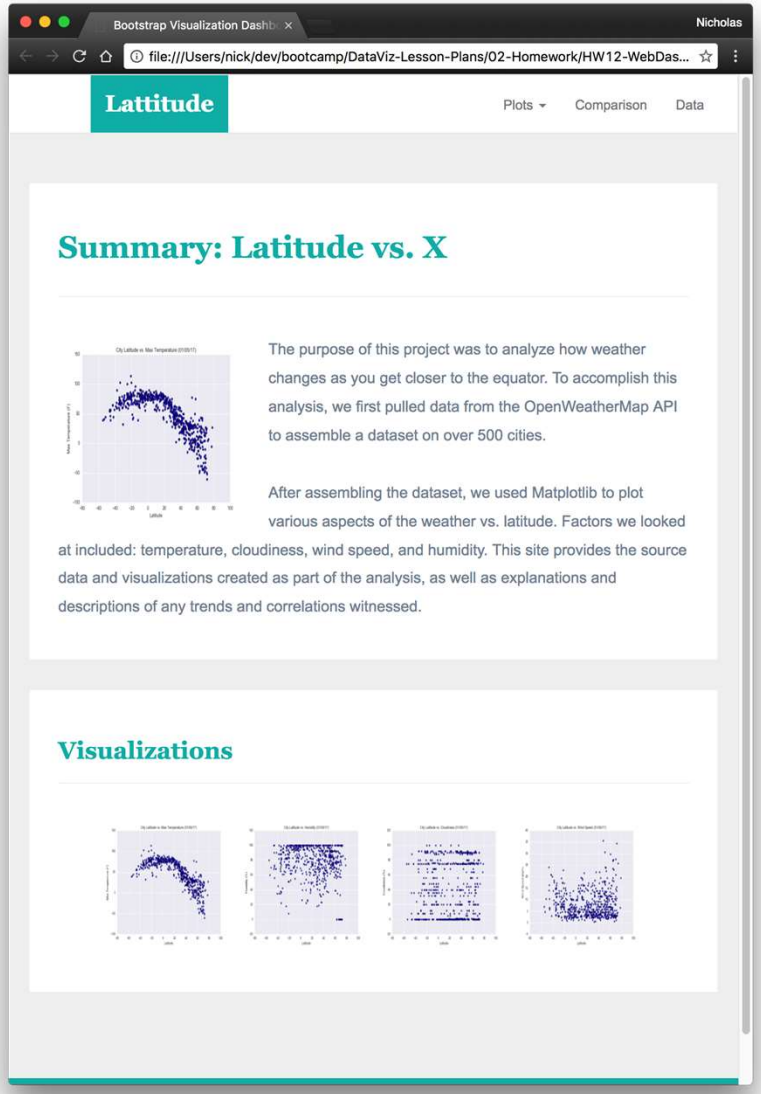
- You may use the weather data or choose another dataset. Alternatively, you may use the included cities dataset and pull the images from the assets folder.
- You must use bootstrap. This includes using the bootstrap `navbar` component for the header on every page, the bootstrap table component for the 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.

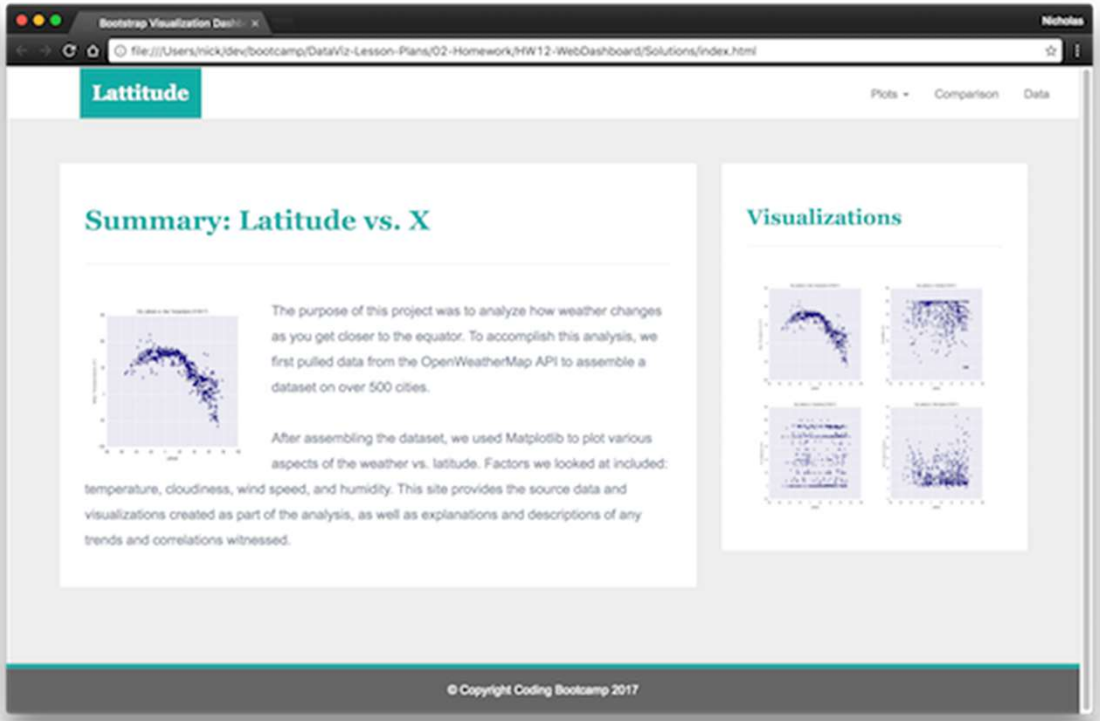
Bonus

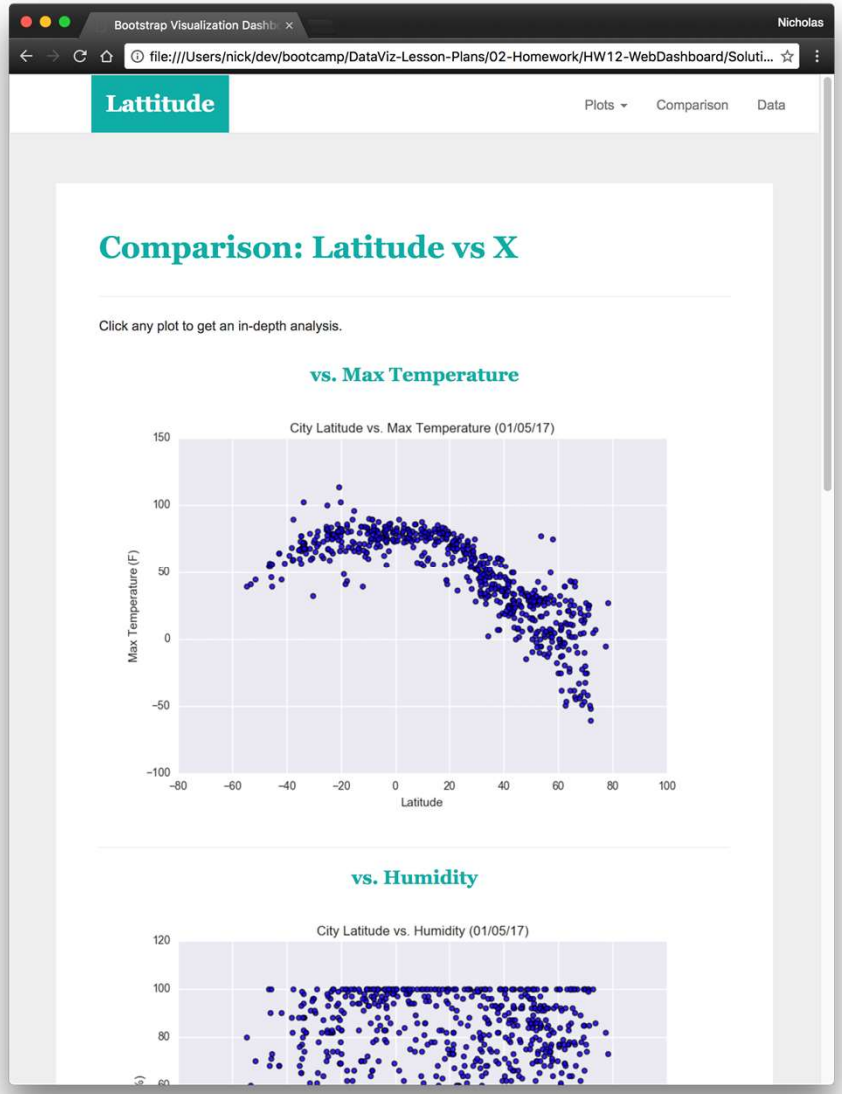
Use a different dataset! The requirements above still hold, but make it your own.
Use a bootstrap theme to customize your website. You may use a tool like Bootswatch. Make it look snazzy, give it some attitude. If using this, be sure you also meet all of the requirements listed above.
Add extra visualizations! 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.

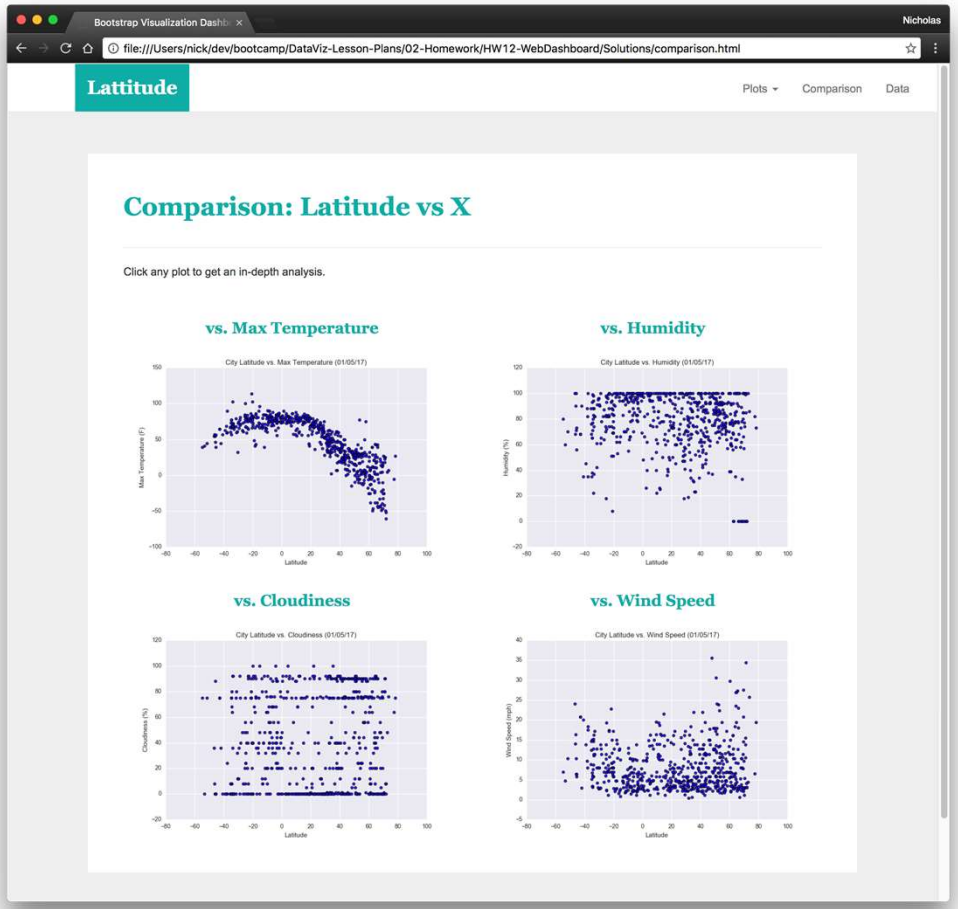

Lattitude
Plots
Max Temperature
Humidity
Cloudiness
Wind Speed
Comparison
Data
Max Temperature

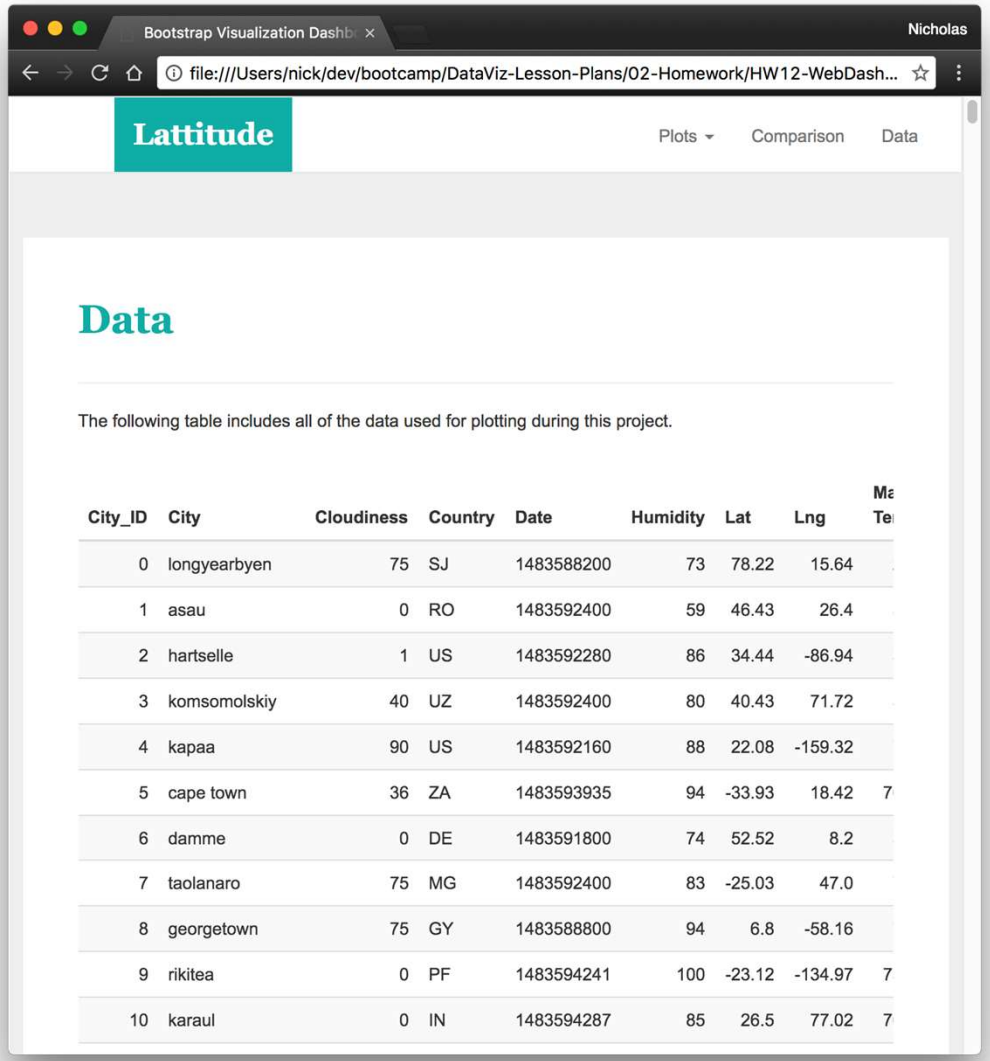

Lattitude
Plots
Comparison
Data
Max Temperature
Humidity
Cloudiness
Wind Speed
Max Temperature
Visualizations

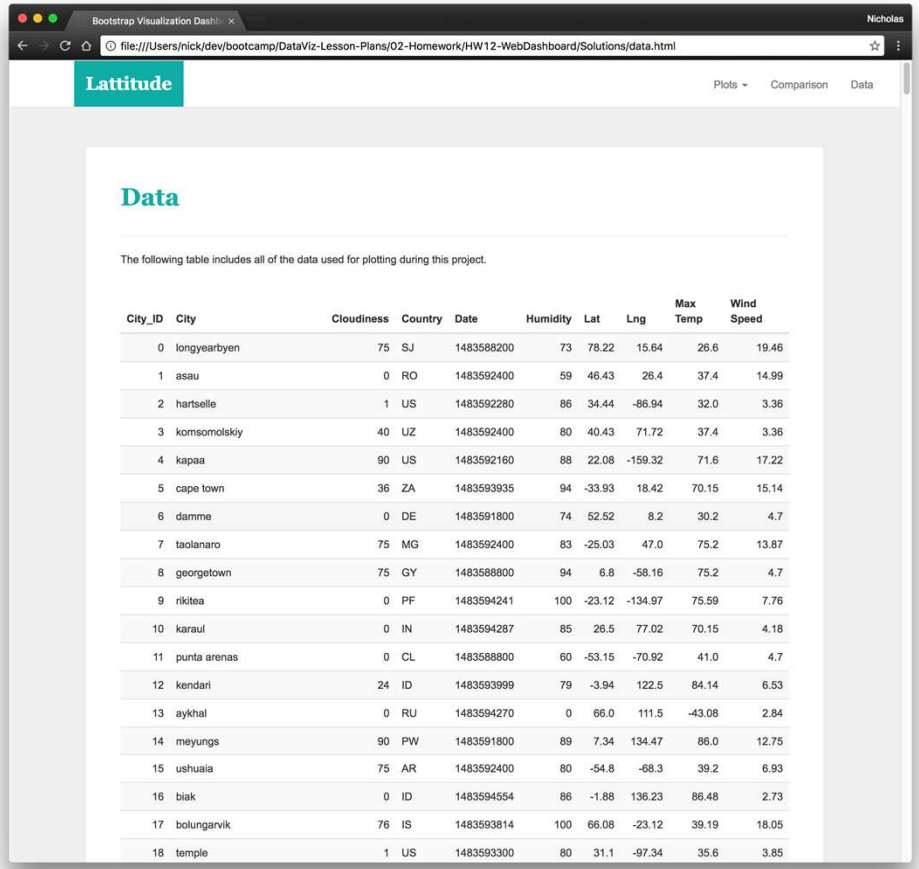

Bootstrap Visualization Dashb
Nicholas
file:///Users/nick/dev/bootcamp/DataViz-Lesson-Plans/02-Homework/HW12-WebDas...
Lattitude
Plots
Comparison
Data
Summary: Latitude vs. X
The purpose of this project was to analyze how weather changes as you get closer to the equator. To accomplish this analysis, we first pulled data from the OpenWeatherMap API to assemble a dataset on over 500 cities.
After assembling the dataset, we used Matplotlib to plot various aspects of the weather vs. latitude. Factors we looked at included: temperature, cloudiness, wind speed, and humidity. This site provides the source data and visualizations created as part of the analysis, as well as explanations and descriptions of any trends and correlations witnessed.
Visualizations

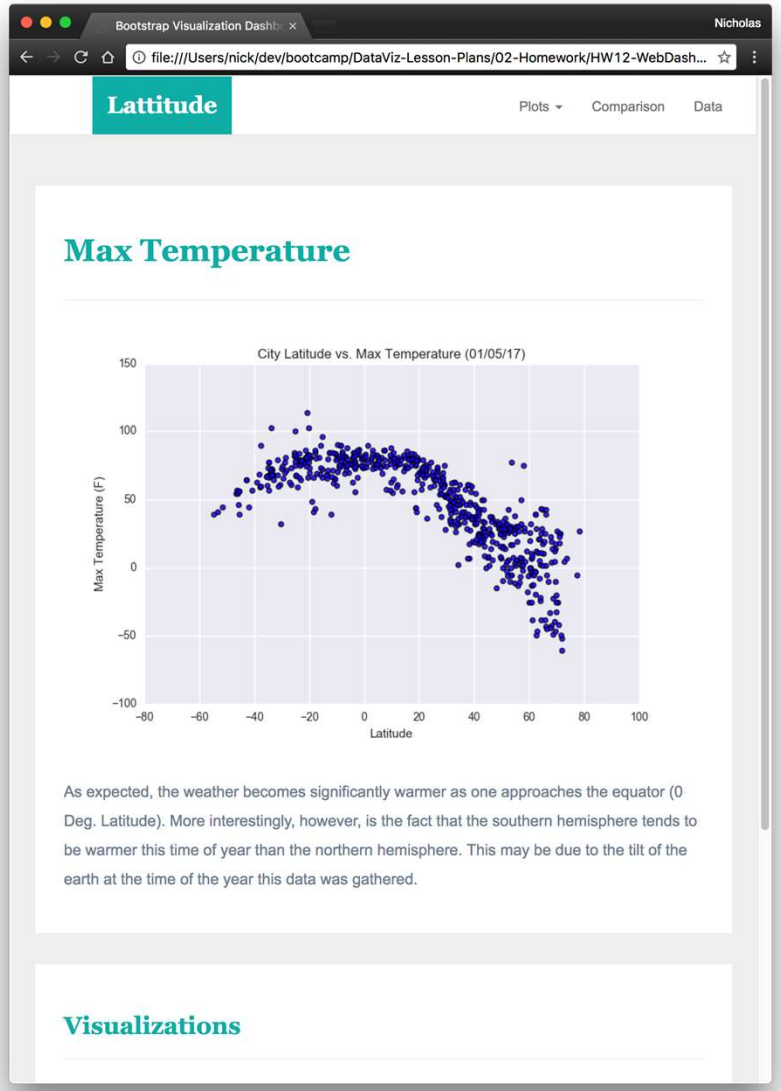

Bootstrap Visualization Dashb
Nicholas
file:///Users/nick/dev/bootcamp/DataViz-Lesson-Plans/02-Homework/HW12-WebDashboard/Solutions/index.html
Lattitude
Plots
Comparison
Data
Summary: Latitude vs. X
The purpose of this project was to analyze how weather changes as you get closer to the equator. To accomplish this analysis, we first pulled data from the OpenWeatherMap API to assemble a dataset on over 500 cities.
After assembling the dataset, we used Matplotlib to plot various aspects of the weather vs. latitude. Factors we looked at included: temperature, cloudiness, wind speed, and humidity. This site provides the source data and visualizations created as part of the analysis, as well as explanations and descriptions of any trends and correlations witnessed.
Visualizations
© Copyright Coding Bootcamp 2017

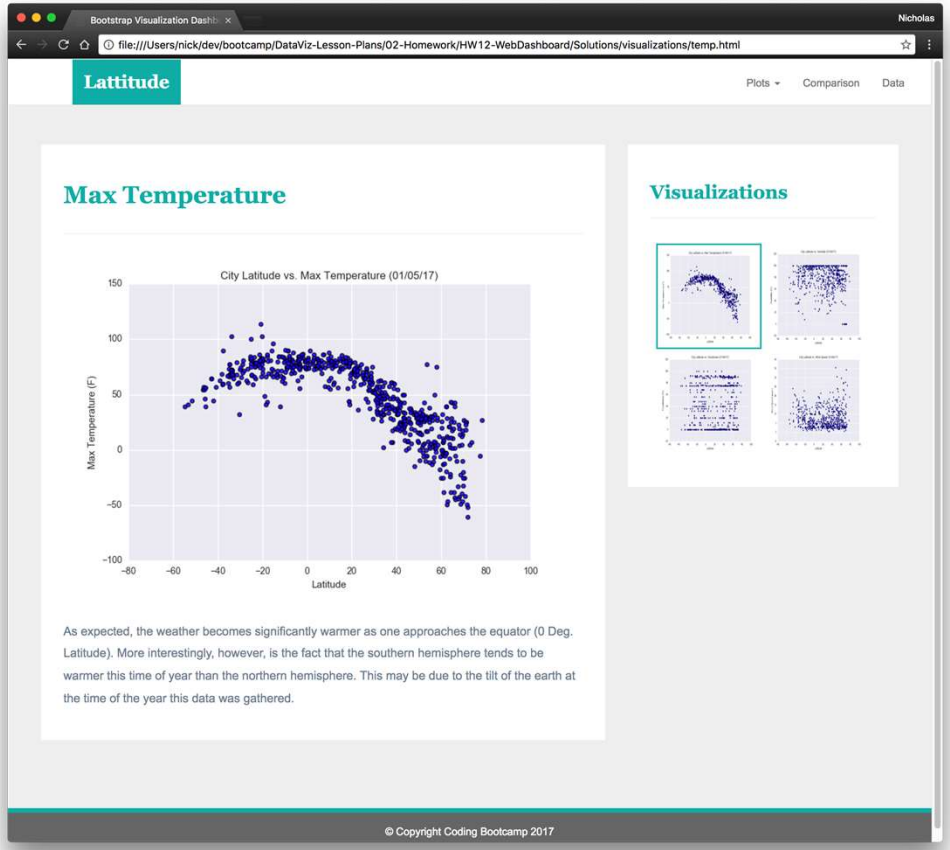

Bootstrap Visualization Dashb
Nicholas
file:///Users/nick/dev/bootcamp/DataViz-Lesson-Plans/02-Homework/HW12-WebDashboard/Soluti...
Lattitude
Plots
Comparison
Data
Comparison: Latitude vs X
Click any plot to get an in-depth analysis.
vs. Max Temperature
City Latitude vs. Max Temperature (01/05/17)
Max Temperature (F)
Latitude
vs. Humidity
City Latitude vs. Humidity (01/05/17)


Bootstrap Visualization Dashb
Nicholas
file:///Users/nick/dev/bootcamp/DataViz-Lesson-Plans/02-Homework/HW12-WebDashboard/Solutions/comparison.html
Lattitude
Plots
Comparison
Data
Comparison: Latitude vs X
Click any plot to get an in-depth analysis.
vs. Max Temperature
vs. Humidity
vs. Cloudiness
vs. Wind Speed


Bootstrap Visualization Dashb
Nicholas
file:///Users/nick/dev/bootcamp/DataViz-Lesson-Plans/02-Homework/HW12-WebDash...
Lattitude
Plots
Comparison
Data
Data
The following table includes all of the data used for plotting during this project.
City_ID City Cloudiness Country Date Humidity Lat Lng Ma Te
0 longyearbyen 75 SJ 1483588200 73 78.22 15.64
1 asau 0 RO 1483592400 59 46.43 26.4
2 hartselle 1 US 1483592280 86 34.44 -86.94
3 komsomolskiy 40 UZ 1483592400 80 40.43 71.72
4 kapaa 90 US 1483592160 88 22.08 -159.32
5 cape town 36 ZA 1483593935 94 -33.93 18.42 7
6 damme 0 DE 1483591800 74 52.52 8.2
7 taolanaro 75 MG 1483592400 83 -25.03 47.0
8 georgetown 75 GY 1483588800 94 6.8 -58.16
9 rikitea 0 PF 1483594241 100 -23.12 -134.97 7
10 karaul 0 IN 1483594287 85 26.5 77.02 7


Bootstrap Visualization Dashb
Nicholas
file:///Users/nick/dev/bootcamp/DataViz-Lesson-Plans/02-Homework/HW12-WebDashboard/Solutions/data.html
Lattitude
Plots
Comparison
Data
Data
The following table includes all of the data used for plotting during this project.
City_ID City Cloudiness Country Date Humidity Lat Lng Max Temp Wind Speed
0 longyearbyen 75 SJ 1483588200 73 78.22 15.64 26.6 19.46
1 asau 0 RO 1483592400 59 46.43 26.4 37.4 14.99
2 hartselle 1 US 1483592280 86 34.44 -86.94 32.0 3.36
3 komsomolskiy 40 UZ 1483592400 80 40.43 71.72 37.4 3.36
4 kapaa 90 US 1483592160 88 22.08 -159.32 71.6 17.22
5 cape town 36 ZA 1483593935 94 -33.93 18.42 70.15 15.14
6 damme 0 DE 1483591800 74 52.52 8.2 30.2 4.7
7 taolanaro 75 MG 1483592400 83 -25.03 47.0 75.2 13.87
8 georgetown 75 GY 1483588800 94 6.8 -58.16 75.2 4.7
9 rikitea 0 PF 1483594241 100 -23.12 -134.97 75.59 7.76
10 karaul 0 IN 1483594287 85 26.5 77.02 70.15 4.18
11 punta arenas 0 CL 1483588800 60 -53.15 -70.92 41.0 4.7
12 kendari 24 ID 1483593999 79 -3.94 122.5 84.14 6.53
13 aykhal 0 RU 1483594270 0 66.0 111.5 -43.08 2.84
14 meyungs 90 PW 1483591800 89 7.34 134.47 86.0 12.75
15 ushuaia 75 AR 1483592400 80 -54.8 -68.3 39.2 6.93
16 biak 0 ID 1483594554 86 -1.88 136.23 86.48 2.73
17 bolungarvik 76 IS 1483593814 100 66.08 -23.12 39.19 18.05
18 temple 1 US 1483593300 80 31.1 -97.34 35.6 3.85


Bootstrap Visualization Dashb
Nicholas
file:///Users/nick/dev/bootcamp/DataViz-Lesson-Plans/02-Homework/HW12-WebDash...
Lattitude
Plots
Comparison
Data
Max Temperature
City Latitude vs. Max Temperature (01/05/17)
Max Temperature (F)
Latitude
As expected, the weather becomes significantly warmer as one approaches the equator (0 Deg. Latitude). More interestingly, however, is the fact that the southern hemisphere tends to be warmer this time of year than the northern hemisphere. This may be due to the tilt of the earth at the time of the year this data was gathered.
Visualizations


Bootstrap Visualization Dashb
Nicholas
file:///Users/nick/dev/bootcamp/DataViz-Lesson-Plans/02-Homework/HW12-WebDashboard/Solutions/visualizations/temp.html
Lattitude
Plots
Comparison
Data
Max Temperature
City Latitude vs. Max Temperature (01/05/17)
Max Temperature (F)
Latitude
As expected, the weather becomes significantly warmer as one approaches the equator (0 Deg. Latitude). More interestingly, however, is the fact that the southern hemisphere tends to be warmer this time of year than the northern hemisphere. This may be due to the tilt of the earth at the time of the year this data was gathered.
Visualizations
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