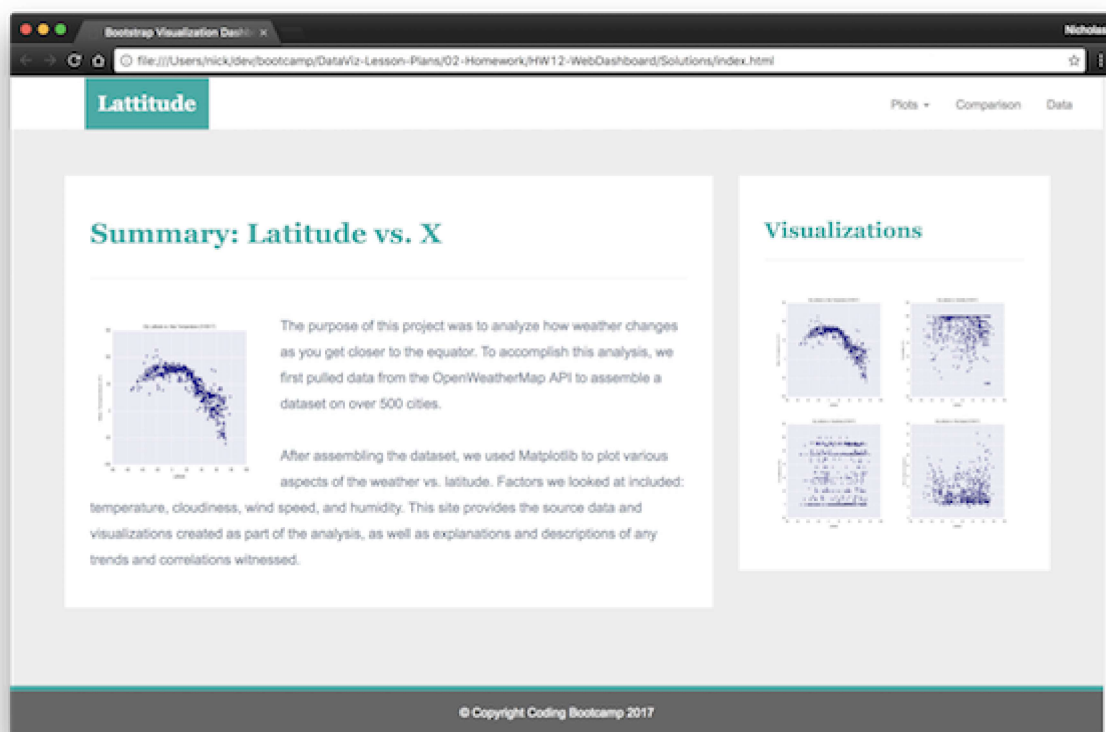


Web Design Homework - Web Visualization Dashboard (Latitude)

Background

Data is more powerful when we share it with others! Let's take what we've learned about HTML and CSS to create a dashboard showing off the analysis we've done.



Before You Begin

1. Create a new repository for this project called `Web-Design-Challenge`. **Do not add this homework to an existing repository.**
2. Clone the new repository to your computer.
3. Inside your local git repository, create a directory for the web challenge. Use a folder name to correspond to the challenge: **WebVisualizations**.

4. Add your **html** files to this folder as well as your **assets**, **Resources** and **visualizations** folders.
5. Push the above changes to GitHub or GitLab.

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](#).

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](#) below.

The website must consist of 7 pages total, including:

- 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).

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](#) 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.

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](#). Make it look snazzy, give it some attitude. If using this, be sure you

also meet all of the requirements listed above.

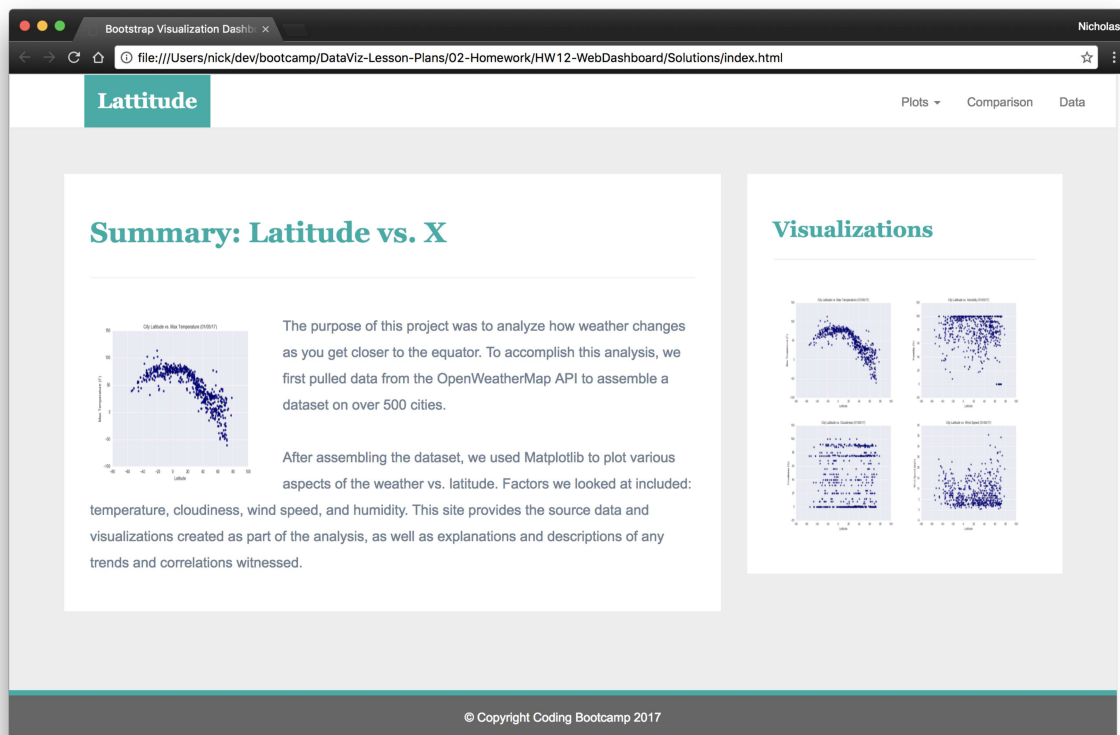
- Add extra visualizations! The more comparisons the better, right?
- Use meaningful glyphicons next to links in the header.
- Have visualization navigation on every visualizations page with an active state. See the screenshots below.

Screenshots

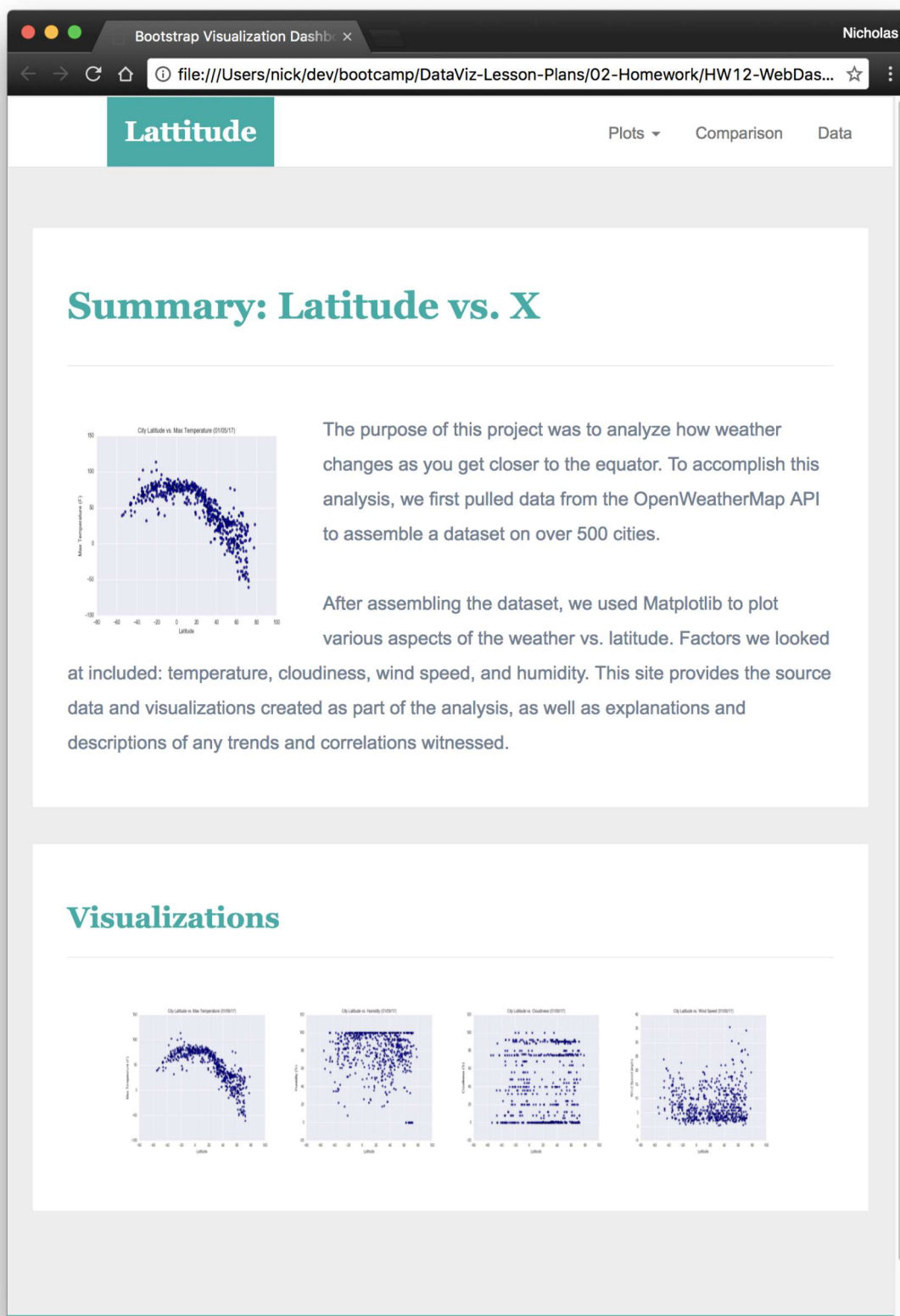
This section contains screenshots of each page that must be built, at varying screen widths. These are a guide; you can meet the requirements without having the pages look exactly like the below images.

Landing page

Large screen:

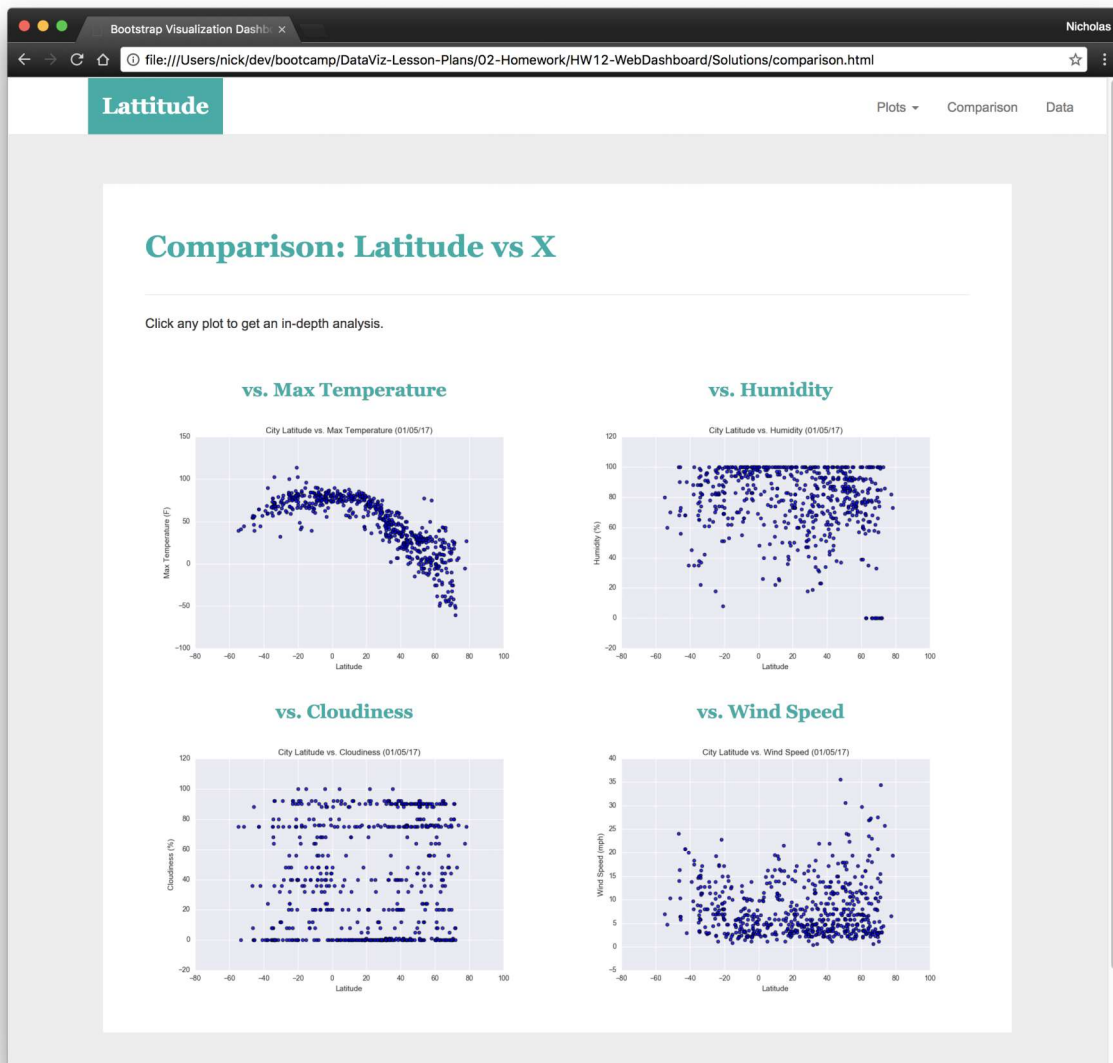


Small screen:

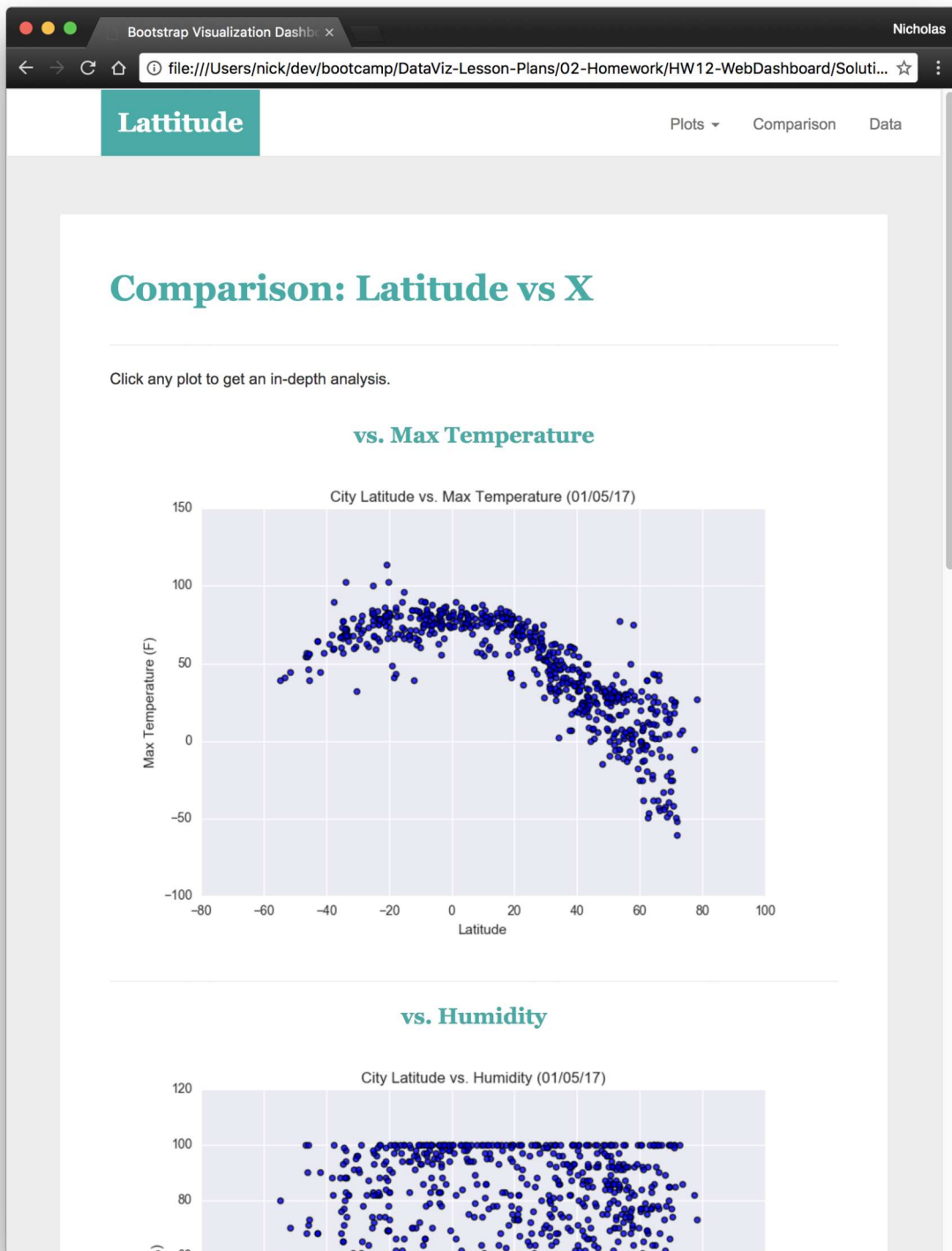


Comparisons page

Large screen:



Small screen:



Data page

Large screen:

Bootstrap Visualization Dashb...

Nicholas

file:///Users/nick/dev/bootcamp/DataViz-Lesson-Plans/02-Homework/HW12-WebDashboard/Solutions/data.html

Lattitude

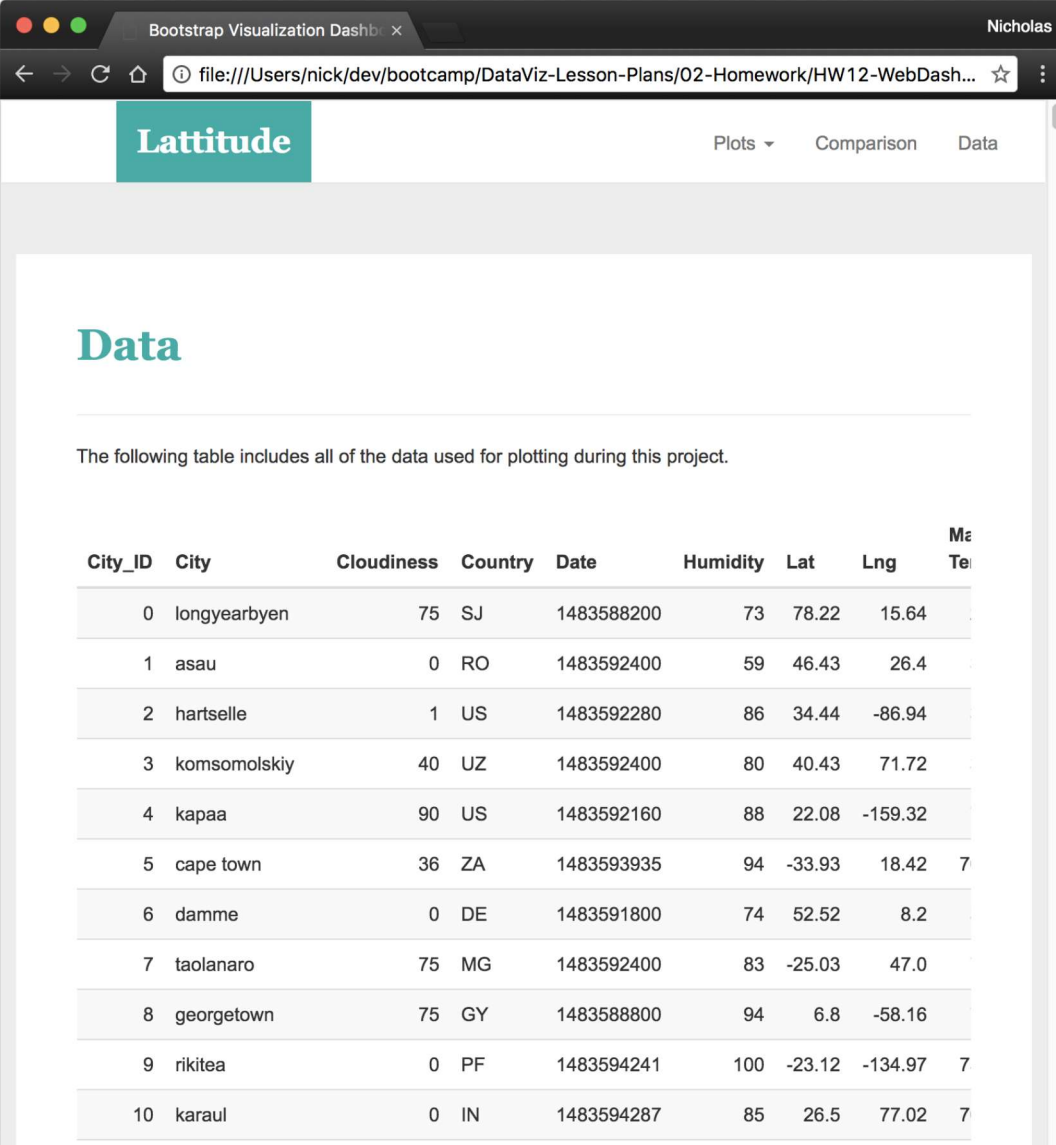
Plots Comparison Data

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

Small screen:

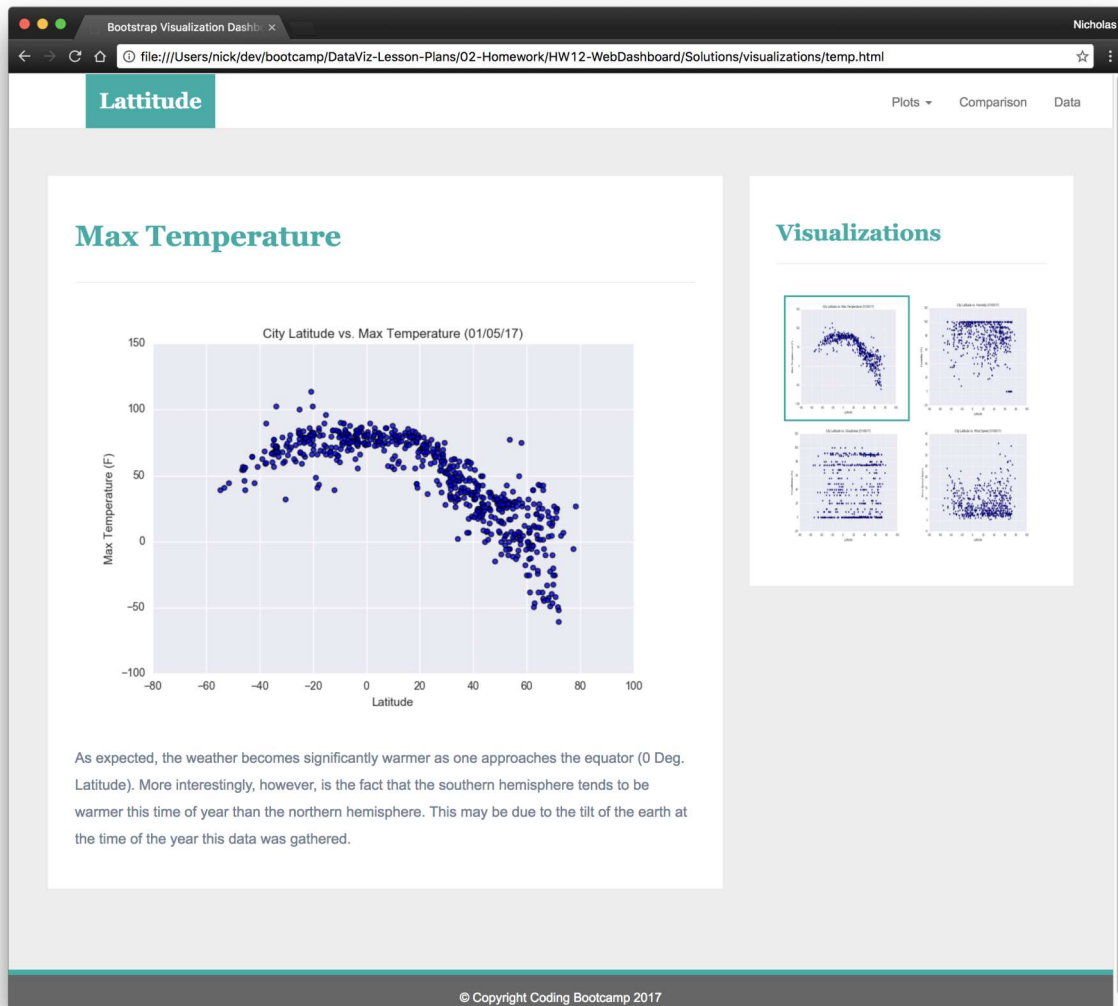


City_ID	City	Cloudiness	Country	Date	Humidity	Lat	Lng	Me Te
0	longyearbyen	75	SJ	1483588200	73	78.22	15.64	
1	asau	0	RO	1483592400	59	46.43	26.4	
2	hartselle	1	US	1483592280	86	34.44	-86.94	
3	komsomolskiy	40	UZ	1483592400	80	40.43	71.72	
4	kapaa	90	US	1483592160	88	22.08	-159.32	
5	cape town	36	ZA	1483593935	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

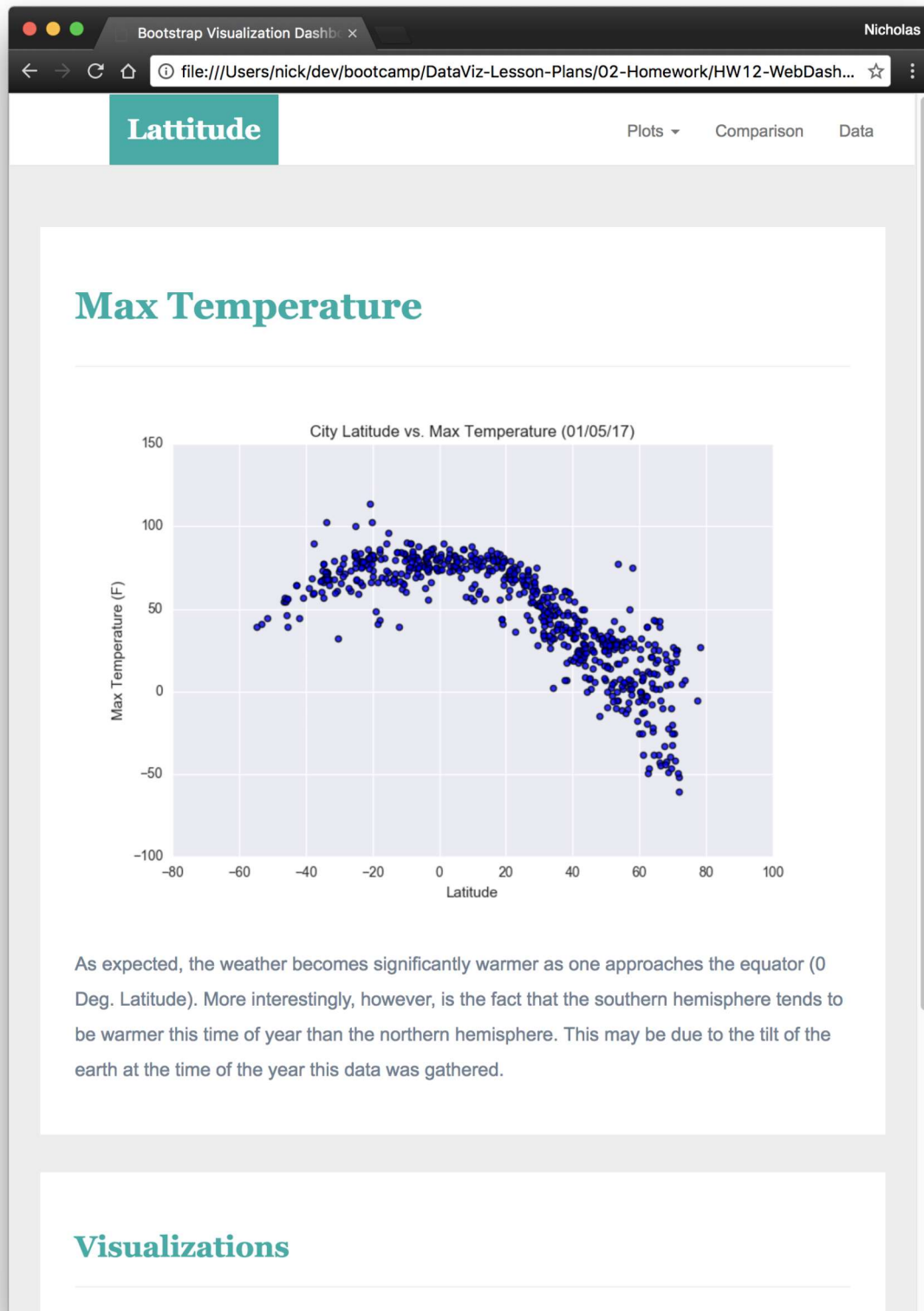
Visualization pages

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

Large screen:

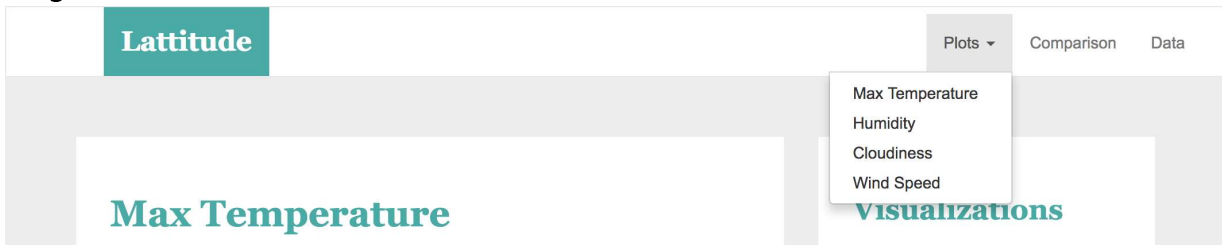


Small screen:

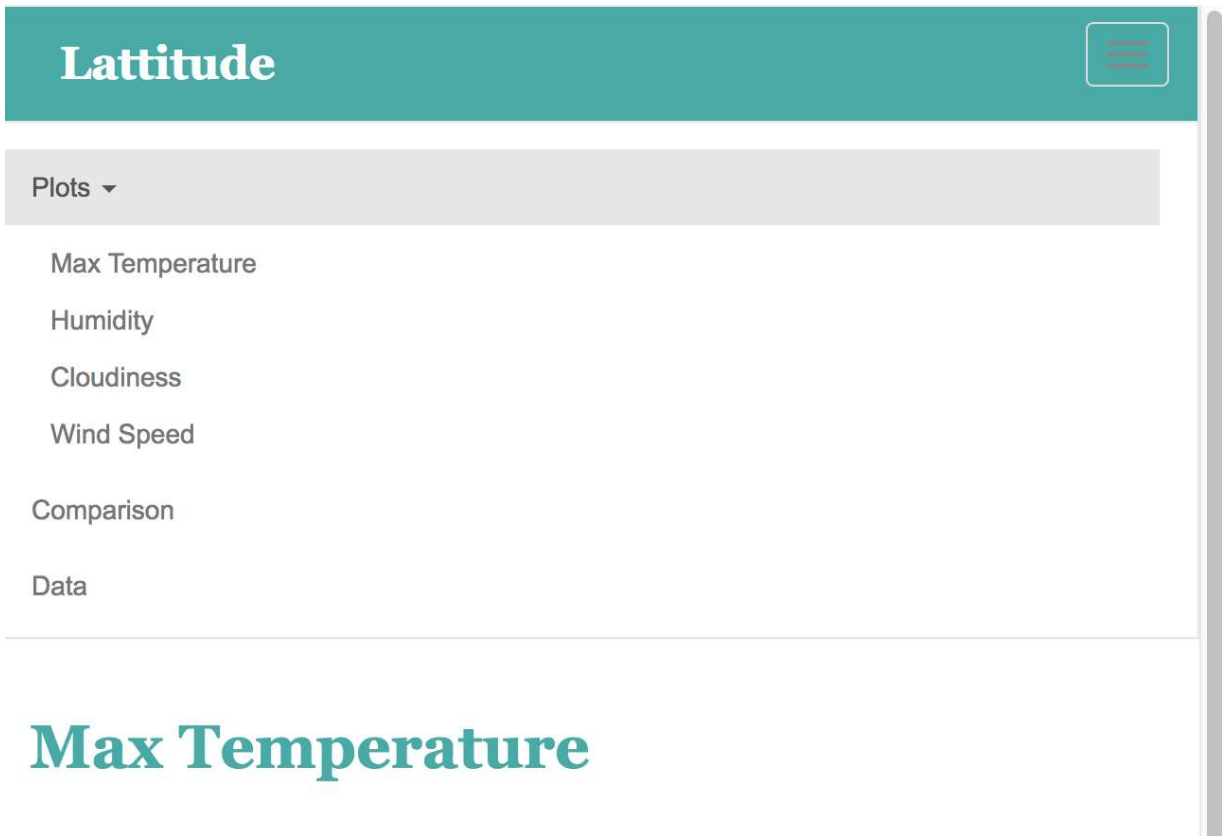


Navigation menu

Large screen:



Small screen:



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