

## P6: Make Effective Data Visu...

## Project Overview

## DATA VISUALIZATION WITH D3.JS

Visualization Fundamen... 1/29

D3 Building Blocks 1/35

Problem Set: Visualizati... 1/15

Design Principles 1/54

Dimple.js 1/35

Problem Set: Chart Type... 0/16

Narrative Structures 1/65

Animation and Interacti... 1/50

## PROJECT

Project Prep 1/2

✓ Project Overview

● Project Details

Submission

## Project Overview

For this project, you will create a data visualization from a data set, identifying trends or patterns in the data. You will need to use either **d3.js** (<http://d3js.org/>) to create the visualization. Your work will involve the design and practice of data visualization, such as visual encodings, and communication.

Prepare for this project with: **Data Visualization** (<https://www.udacity.com/course/ud507-nd>).

## Note

If you have successfully completed the project for the Data Analyst Nanodegree (which entails having graduated from the course and having received your certificate), simply email us at [dataanalyst-project@udacity.com](mailto:dataanalyst-project@udacity.com) with your name and you will receive credit for this project.

## What do I need to install?

To work on your data visualization, you will need to start a local web server. To start a local web server, you will need to have **Python 2.7.8** or later (<https://www.python.org/downloads/>) installed on your machine.

If you do not have Python installed on your machine, please

## Downloading Python

(<https://classroom.udacity.com/courses/ud036/lessons/999999999>)  
These instructions come from the **Programming Foundations** (<https://www.udacity.com/course/ud036>) course.

Once you have Python installed, you can start a local web server to create your data visualization. Refer to the following **video**

(<https://classroom.udacity.com/nanodegrees/nd002/parts/00213454010/modules/318423863275461/lessons/3184238632239847/concepts/31832487990923#>) to see how to do so.

Remember, you must start your web server in the top level directory of your files. If you do not use this folder as the root directory for the project, you will need to change the file paths.

## P6: Make Effective Data Visu...

## DATA VISUALIZATION WITH D3.JS

Visualization Fundamen... 1/29

D3 Building Blocks 1/35

Problem Set: Visualizati... 1/15

Design Principles 1/54

Dimple.js 1/35

Problem Set: Chart Type... 0/16

Narrative Structures 1/65

Animation and Interacti... 1/50

## PROJECT

Project Prep 1/2

✓ Project Overview

● Project Details

Submission

There are other ways to start a local web server. To learn more about starting a local web server and other ways of setting up a local web server, see <http://chimera.labs.oreilly.com/books/1230000000345/ch> from Scott Murray's book, Interactive Data Visualization for the Web.

## Web Server

(<http://chimera.labs.oreilly.com/books/1230000000345/ch>) from Scott Murray's book, Interactive Data Visualization for the Web.

## Why this Project?

This project will touch on the overarching attitudes and beliefs about data visualization, such as:

- visualization is a dialog
- showcasing and sharing visualization with others
- visualization is a fluid process that typically requires multiple iterations

You will have an opportunity to experience the end-to-end process of creating visualizations and highlighting important information from complex data sets that are hard to uncover.

## What will I learn?

After completing the project, you will be able to:

- Demonstrate the ability to choose optimal visual elements and assess the effectiveness of the visualization
- Communicate a story or finding to the appropriate audience using data visualizations
- Undergo the iterative process of creating a visualization using dimple.js or d3.js.

## Why is this Important to my Career?

Data analysts are storytellers that can translate data findings into a story that others can understand. They view data visualization as an important tool in their arsenal.

If you, as a data analyst, can create visualizations to explore data, drive business decisions, or use data to elicit consensus from stakeholders, you will be a deeply invaluable member on your team.



