How do I Complete this Project?

This project is connected to the **Data Visualization (https://www.udacity.com/course/viewer#!/c-ud507-nd)** co background knowledge of data visualization, **dimple.js (htt (http://d3js.org/)** you may not need to take the whole cours

After completing Lesson 2 and Problem Set 2 of the course, project since you will have learned about dimple.js.

If you want to become more technical and expand your skill and Lesson 4, in which you will learn more about narrative s graphics using d3.js. The d3.js library has a steeper learning take on the challenge if you desire.

The process for evaluating your project is not affected by yo **(http://dimplejs.org)** or **d3.js (http://d3js.org)**.

Introduction

For the final project, you will create an **explanatory** data vis communicates a clear finding or that highlights relationship work should be a reflection of the theory and practice of da either **dimple.js (http://dimplejs.org)** or **d3.js (http://d3js.c**

We will provide some options of data sets to explore; howev entirely different data set. You should be aware that finding using Python, R, or some other language can take considera much as a day, a week, or even months to your project so e clean a data set if you are truly prepared with programming

You have three options for this project. You should pick an o experience with data munging and exploratory data analysi affect the evaluation of the project.

- **Option 1**
  Select one of the beginner data sets, which already ha
  Data Set Options

(https://docs.google.com/document/d/1w7KhqotVi5
NmcWsLTIiZrpxWx4w/pub?embedded=true) docume
communicates the findings.

- **Option 2**
  Select one of the intermediate data sets from the **Dat**
  (https://docs.google.com/document/d/1w7KhqotVi5
  NmcWsLTIiZrpxWx4w/pub?embedded=true) docume
  to share a story or message about the data and then c
- **Option 3**
  Find a data set, investigate it, and share your findings
  should primarily be explanatory, but it may also conta
  find a list of recommended websites to find data sets i
  (https://docs.google.com/document/d/1w7KhqotVi5
  NmcWsLTIiZrpxWx4w/pub?embedded=true) docume
  finding your own data set, cleaning the data set, and a
  Notebook, or another tool) can take considerable time
  time you spend on your project by days, weeks, or eve
  you feel prepared for a challenge!

Now, on to the details!

Step One - Choose a Data Set

First, you will choose a data set from the **Data Set Options**
(https://docs.google.com/document/d/1w7KhqotVi5eoKE3
NmcWsLTIiZrpxWx4w/pub?embedded=true) document or
visualize. You should choose a data set based on your prior
working with data. The data set you choose will not increase
passing this project.

Step Two - Get Organized

Eventually you'll want to submit your project and share it. If
(https://github.com/), we encourage you to create a public
(https://gist.github.com/) for your project to track changes.
following files.

- an **index.html** file containing the code to create your
  JavaScript and CSS in this file or separate them in othe
- a **README.md** file that includes four sections...
  - **Summary** - in no more than 4 sentences, briefly
    and add any context that can help readers unde

- **Design** - explain any design choices you made ir after collecting feedback
- **Feedback** - include all feedback you received fro the first sketch to the final visualization
- **Resources** - list any sources you consulted to cr

- **data files**
  - the final data set used to create the visualization
  - a codebook or other files related to the data set

- OPTIONAL FOLDERS IF YOU USE **GITHUB (https://gith**
  - **data** folder to include all the data related files
  - **js** folder to include .js files (not needed if javascr
  - **css** folder to include .css files (not needed if CSS

Step Three - Find a Data Story

Explore your data set and craft a message or story around y message you want to convey and think about the comparisc readers to see. Remember that you will ultimately need to c explanatory, helping lead a reader to identify one or more k free to use whatever visualization and data analysis tools yc won't need to use dimple.js or d3.js at this point of the proc

Step Four - Create Your Visualization

First, sketch ideas for your visualization. Once you settle on in that sketch, such as chart type, visual encodings, and layc **README.md** file. Then, write code to create your visualizati **(http://dimplejs.org)** or **d3.js (http://d3js.org)**. The visualiza interaction, or both. See the **Project Rubric (https://review.udacity.com/#!/projects/3184238632/rubri**

Step Five - Get Feedback

Share your visualization with **at least 3 other people** and d many ways to get feedback, and more feedback is generally

- Share your visualization with others in person and hav explore the graphic so you can document what stands the graphic.
- Share a link to your repository in the discussions and a criticisms. Be sure to offer advice to others who are se

- Create and share a **Gist (https://gist.github.com/)**, wh
  data file, and any .js or .css files). Directions for creatir
  http://bl.ocks.org/ (http://bl.ocks.org/).

- **Box Plots Gist EXAMPLE**:
  - **https://gist.github.com/mbostock/40615(**
    (https://gist.github.com/mbostock/40615
  - **http://bl.ocks.org/mbostock/4061502 (htt**

You might need to ask specific questions to prompt the reac
help you. You can, of course, ask others.

- What do you notice in the visualization?
- What questions do you have about the data?
- What relationships do you notice?
- What do you think is the main takeaway from this visu
- Is there something you don't understand in the graphi

Step Six - Document Feedback and Improve the

For each person that gives you feedback, add the person's f
the *Feedback* section. As you improve and iterate on your vis
describe any changes in the *Design* section of the **README.r**

You should save multiple versions of your data visualization
can do this using GitHub or a Gist by making commits to you
multiple version of you data visualization such as index1.htr
Remember to save related files with similar numbers...

- main1.js, main2.js, ... , main_final.js (if you separate yo
- style1.css, style2.css, ... , style_final.css (if you separate

When should you save your files? You should save your files
version of your data visualization. If you get feedback and m
file until you have the data visualization working as you wan
that you have shared your visualization, received feedback,
You will need to submit the different versions of your visual
to submit an initial version of your data visualization (e
the final index.html file and related files.

Step Seven - Review

Use the **Project Rubric (https://review.udacity.com/#!/pro** your project. If you are happy with your submission, then yo you see room for improvement, keep working to improve yo

Project Details