**{Project\_Logo} (**[**Free online logo maker**](https://www.google.com/search?client=firefox-b-1-d&q=free+logo+maker)**)**

**Houston Census Data Visualization**

**Team Members**

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| --- | --- | --- |
| **Name** | **Email** | **Phone Number** |
| Sandy Medrano |  |  |
| John Burke |  |  |
| Henry Wycislo |  |  |
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**Background**

* Provide data visualization dashboard of Houston’s various census metrics and how they relate to geographic location

**Motivation**

We are interested in looking at various census metrics for Houston and understanding how they compare the United States as a whole. An additional point is to understand how this data is collected, where biases may be present, and if there are any other data sets which provide a different view.

To understand these metrics in their geographic context, we’ll be creating a dashboard of multiple data visualizations.

**Questions to answer**

* How is the population split geographically in terms of education, social vulnerability and income, and how does this compare to the national data?
* What are the data collection methods and any inherent biases for how the data is collected?
* What are the richest and poorest areas, the highest educated and least educated areas, and the highest social vulnerability and lowest social vulnerability areas?

**Tools/Modules to use**

* Python
* Pandas
* Matplotlib
* NumPy
* SciPy
* Plotly
* GeoJSON
* JavaScript

**Data sets to use**

* <https://www.atsdr.cdc.gov/placeandhealth/svi/data_documentation_download.html>
* <https://www.census.gov/quickfacts/fact/table/houstoncitytexas/PST045219>

**Tasks Breakdown**

* Henry: data collection methodology, alternate data set search, inherent biases research
* Sam: Collect/Clean the data
* All: Dashboard and Visualization
  + All team members will contribute and this task will be broken into parts after establishing the overall dashboard layout together
* All: Presentation
  + All team members will have a portion of the presentation to prepare and present

**Tasks and timeline**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Date** | **Task** | **Notes** |
| **1** | **10/27** | Project Proposal |  |
| **2** | **10/28** | Proposal Approval | Thurs Class day |
| **3** | **10/29 – 10/31** | Data collection and cleaning | 10/30 Sat Class |
| **4** | **10/29 – 10/30** | Collection methodology research |  |
| **5** | **10/31 – 11/1** | Inherent biases research |  |
| **6** | **10/28** | Dashboard layout agreement |  |
| **7** | **10/29 – 11/8** | Dashboard development | 11/2 Tues Class |
| **8** | **11/4 – 11/8** | Presentation development | 11/4 Thur Class |
| **9** | **11/6** | Presentation practice 1 | During class, Sat |
| **10** | **11/8** | Presentation practice 2 | Monday |
| **11** | **11/8** | Presentation finalized | Monday |
| **12** | **9/2** | Create Visualizations |  |
| **13** | **9/3** | Create Visualizations |  |
| **14** | **9/4** | Presentation prep |  |
| **15** | **9/5** | Mock Presentation |  |
| **16** | **9/6** | Finalize the project |  |
| **17** | **11/9** | **Project Presentation** | Tuesday |
|  |  |  |  |

**Presentation**

Divide your presentation steps to tasks and assign it to members.

Sandy: Introduction and Overview

John: Visualization 1

Sam: Visualization 2

Henry: Visualization 3, Data Collection, and Biases Considerations

Sandy: Visualization 4 and Conclusion

Suggested by:  
Sam Robinson