The course staff has compiled a set of resources for students focusing on Tableau and D3.js. These are supplementary suggested readings (not required) that may be useful for students based on your background and experience. We decided to share these resources now as they can help with HW1 Q3, but they will also help with the problems on HW2.

**Tableau Resources**

* Dashboard vs. Worksheets: <https://help.tableau.com/current/pro/desktop/en-us/environ_workbooksandsheets.htm#:~:text=A%20worksheet%20is%20where%20you,work%20together%20to%20convey%20information.>
* Number formatting: <https://help.tableau.com/current/pro/desktop/en-us/formatting_specific_numbers.htm>
* What is a data table? <https://help.tableau.com/current/pro/desktop/en-us/buildexamples_text.htm>
* Fixed LOD: <https://help.tableau.com/current/pro/desktop/en-us/calculations_calculatedfields_lod_fixed.htm>
* Exporting Images: <https://help.tableau.com/current/pro/desktop/en-us/save_export_image.htm>
* Captions in Worksheets: <https://interworks.com/blog/2020/02/24/how-to-improve-your-tableau-work-with-documentation/#:~:text=Another%20great%20way%20to%20capture,Caption%20and%20edit%20the%20text.>
* Textbox in Dashboard: <https://youtu.be/fRwQenvBJ6I>

**D3 Resources**

* D3.js (Official website): <https://d3js.org/>
* Observable: <https://observablehq.com/@d3/gallery>
* The D3.js Graph Gallery: <https://d3-graph-gallery.com/index.html>
* How to learn D3.js: <https://2019.wattenberger.com/blog/d3>
* Data Visualization with D3 – Full Course for Beginners [2022]: <https://www.youtube.com/watch?v=xkBheRZTkaw>
* [D3 - Interactive Data Visualization for the Web](http://alignedleft.com/work/d3-book-2e) by Scott Murray **(Login with GT email)**
* Introduction to D3: <https://observablehq.com/@observablehq/introduction-to-d3-course>

**D3 + Frameworks Resources**

* Data Visualization with D3, JavaScript, React - Full Course [2021]: <https://www.youtube.com/watch?v=2LhoCfjm8R4>
* The React Graph Gallery: <https://www.react-graph-gallery.com/>
* Introduction To D3.js with React: <https://learning.oreilly.com/videos/introduction-to-d3-js/9781800568259/> **(Login with GT email)**
* React + D3: A Starter’s Guide: <https://megagon.ai/react-d3-a-starters-guide/>
* Data visualization from scratch: <https://reactviz.com/>

**Web Development Basics**

* [Chrome Web Inspector](https://www.youtube.com/watch?v=9-Ky3baMrYI)
* [HTML For Beginners](https://www.youtube.com/watch?v=UB1O30fR-EE)
* [CSS For Beginners](https://www.youtube.com/watch?v=yfoY53QXEnI)
* [SVG For Beginners](https://www.youtube.com/watch?v=IM8eTD01UE8)
* [Running a Local Web Server](https://dev.to/alexeagleson/understanding-the-modern-web-stack-running-a-local-web-server-4d8g)
* [Get started with viewing and changing the DOM](https://developer.chrome.com/docs/devtools/dom)

**More D3 and JavaScript** **Resources**

* Using a slider: [D3 simple slider](https://bl.ocks.org/johnwalley/e1d256b81e51da68f7feb632a53c3518)
* D3 Select Box:<http://bl.ocks.org/jfreels/6734823>
* Customizing Text Alignment: [d3 svg text alignment v3](https://bl.ocks.org/emmasaunders/0016ee0a2cab25a643ee9bd4855d3464)
* Handling Interactivity: [Mouse Events](http://bl.ocks.org/WilliamQLiu/76ae20060e19bf42d774)
* Converting Wide and Long Data: [Wide vs. Long data](http://jonathansoma.com/tutorials/d3/wide-vs-long-data/)
* [Loading Data Files Using D3](https://github.com/thomasxu2009/D3_Intro/wiki/Loading-Data-Files-Using-D3)
* Explanation of D3 Selection:
  + <https://bost.ocks.org/mike/selection/>
  + <https://bost.ocks.org/mike/join/>
  + <https://github.com/d3/d3-selection#selecting-elements>
  + [Practical applications of D3 selections (including append(), attr(), text(), on(), data(), datum())](https://github.com/billautomata/d3js_design_patterns/blob/master/volume-3.md)
* CSS Page Break:<https://stackoverflow.com/questions/1664049/can-i-force-a-page-jump-in-html-printing/1664058>
* Color choice:<http://colorbrewer2.org/#type=sequential&scheme=BuGn&n=3>
* How to draw a line in D3.js:<https://webdva.github.io/how-to-draw-a-line-in-d3js/>
* Introduction to D3:<https://www.youtube.com/watch?v=8jvoTV54nXw&list=PL9yYRbwpkykvjkfuRslECO9c1qTq3GgUb&index=5>

**Other Useful Resources**

* [Use Chrome Web Inspector to check the DOM structure (Elements tab) and console messages (Console tab)](https://www.youtube.com/watch?v=9-Ky3baMrYI)
* Bar Chart vs. Stacked Bar Chart Article:<https://www.smashingmagazine.com/2017/03/understanding-stacked-bar-charts/>
* Choosing fonts for visualizations:<https://medium.com/nightingale/choosing-a-font-for-your-data-visualization-2ed37afea637>

**Showcase Examples**

* Bussed out How America moves its homeless:<https://www.theguardian.com/us-news/ng-interactive/2017/dec/20/bussed-out-america-moves-homeless-people-country-study>
* The Inside Scoop of Ben & Jerry's: <https://benjerry.heshlindsdataviz.com/>
* All fights from DRAGON BALL Z: <https://dragonballz.visualcinnamon.com/>
* Representation of Women in IMDb Top 250: <https://aereeeee.github.io/CS6730_project/>
* Transformer Explainer: <https://poloclub.github.io/transformer-explainer/>
* An Interactive Visualization of Every Line in Hamilton: <https://pudding.cool/2017/03/hamilton/>
* NBA GameViz: <https://www.cc.gatech.edu/gvu/ii/sportvis/nbaGame/>
* HoopInSight: <https://hoopinsight.netlify.app/>
* Buckets: <https://buckets.peterbeshai.com/app/#/playerView/2738_2011?playerSelector=true>