DSC 106 – HW1

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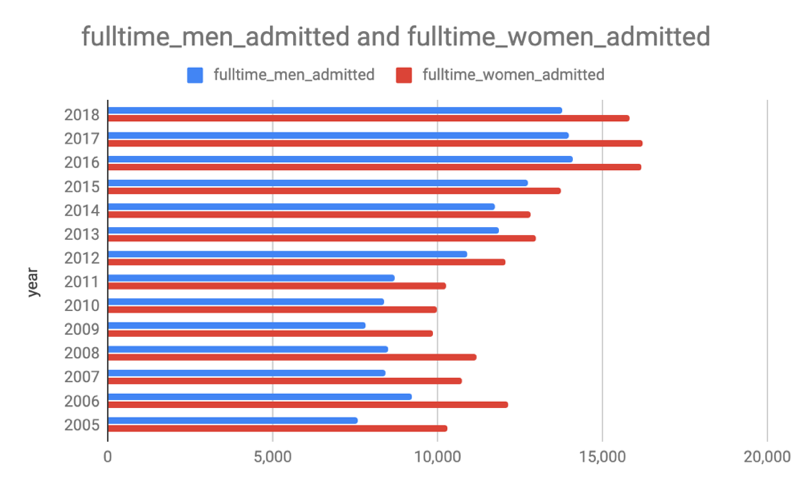
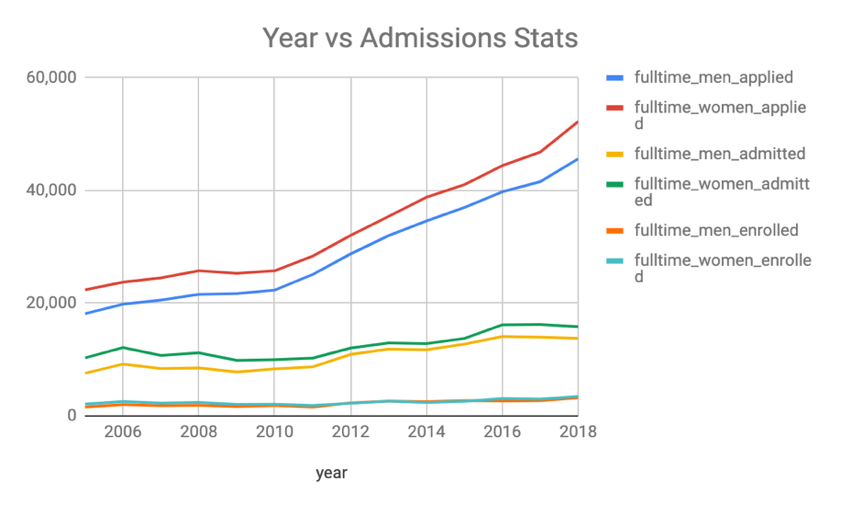
**Google G Suite**

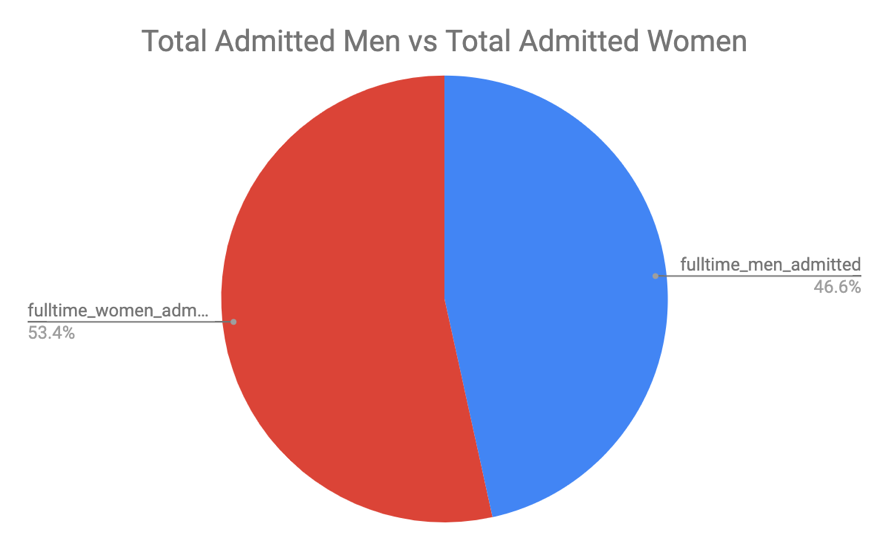
Pros:

* Easy table creation
* Similar to excel

Cons:

* Hard to customize





**Infogram**

Pros:

* Easy to use / intuitive
* Interactive UI built for visualization

Cons:

* Limited customization

A close up of a map

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**Tableau**

Pros:

* Highly customizable
* Great learning community
* Complete toolkit built out and ready to use

Cons:

* Complicated ways to do things
* A close up of a map

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**D3**

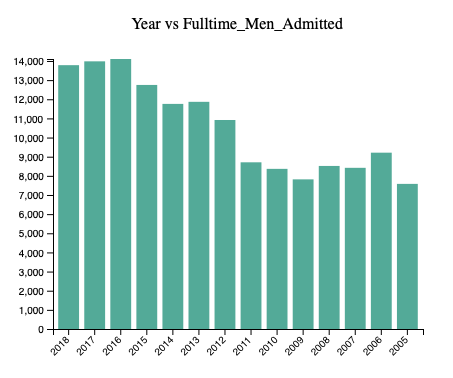
Pros:

* Highly customizable
* Is able to create complex and interactive charts

Cons:

* High learning curve
* Need to know coding and JavaScript
* Syntax is a pain if you are not familiar with JavaScript
* Documentation is all over the place
* Each version released has a different syntax

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A picture containing accessory

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Highcharts

Pros:

* Highly customizable, like d3
* Better documentation than d3
* Has a Highcharts Cloud to help edit online with simpler tools

Cons:

* Has a learning curve
* Needs to have familiarity with coding for max capability

A close up of a map

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In-Depth Comparison:

Google Sheets was the easiest to use as it is one of the most common spreadsheet applications out on the market. A lot of data entry would use either Excel or Google Sheets, therefore is it more familiar.

Infogram is a more specific tool for charting. It is also easy to use and intuitive.

The above two tools were more easy to use but both has limitations the extent of customizability.

Tableau is one of the best tools in this assignment. It is easier to use and learn for the first time, and it has the capability to do more customized charts.

D3 was relatively a pain. It had a huge learning curve. It has terrible documentation, examples, and tutorials. In addition, each version of d3 had a slightly different syntax, which made trying to learn d3 that much more harder.

Highcharts, compared to d3, was easier to use. It had a more clean documentation and plenty of examples. While both d3 and Highcharts used JavaScript and HTML, Highcharts was easier to implement.

Working GitHub directory:

<https://github.com/jeffliao8888/dsc106_hw/tree/master/hw1>