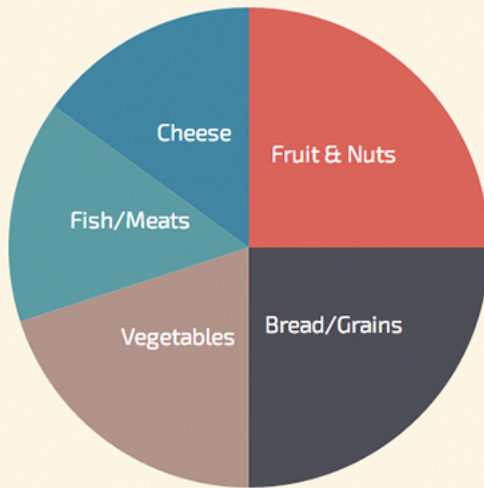


## Presentation: Learning D3.JS -Pie Chart Tutorial

### Valhalla Viking Burgers & Sandwiches-We deliver to the docks!

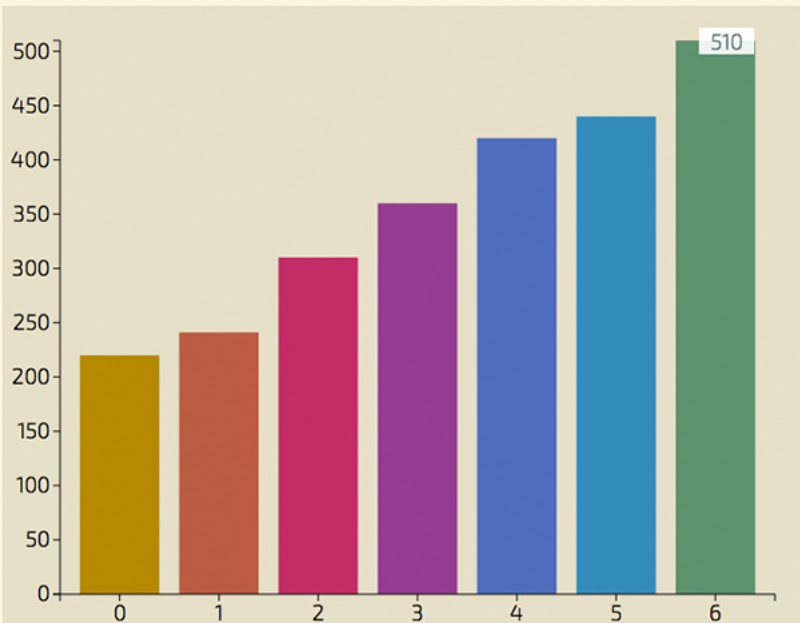
[Home](#) [About Us](#) [Menu](#) [Delivery](#) [Viking History](#) [Contact Us](#)

What did the Vikings Eat?



### Viking Sandwiches

Calorie Chart



D3.JS learning process:

Creating a Bar Chart  
from tutorial

Main Concepts  
of D3.JS:

1. SVG
2. Data Binding
3. Selections
4. Sub Selections
5. Scales

The Presentation Slide show can be viewed at:  
<https://www.youtube.com/watch?v=zfs-rPZgoC4>

I choose to learn D3.js for my presentation after I viewed Mike Bostock's work at <http://d3js.org/>. Bostock created D3.js as part of his doctorate studies at Stanford University. I thought the way data was displayed utilizing D3.js was both visually pleasing and served a purpose for its users. I found it unique that in addition to allowing the designer to create transitions and animations d3.js includes built in physics that allows for gravity and friction. I noted the charts created by D3.js displayed data in appealing way for many professional fields. These fields consisted of scientific research, medicine business, etc. The possibilities appear endless. As a result, I felt it would be a useful tool to understand and incorporate in future web projects.

When I began trying to grasp the concepts of D3.js, I found it more challenging than I had imagined. It felt it was more difficult than learning JavaScript, jQuery, angular.js and ember.js that I've encountered in other classes. I first went through Ray Villalobos tutorial on Lynda.com. I started drawing shapes between <svg> tags. This was similar to canvas and the easier part of grasping d3.js. Next, I followed along creating a bar chart and trying to understand all the pieces. The finally I worked on learning how to create a pie chart.

During this learning process, I switched to a number of tutorials that provided additional detail on d3.js concepts. This included concepts on data binding and sub selectors. I also realized that taking the time to read Mike Bostock's website D3js.org helped to understand the different layouts, how the parts work together and/or what functions one can call. The D3.js approach is slightly different and in my opinion was best explained by Stephen Thomas. He said to look at d3.js like an assembly line. On the assembly line one gathers parts and is given instructions and at the end of the assembly line is a well running machine (2012, Stephen). Keeping the idea of an assembly line in mind helped my understanding of D3.js.

At some point I would like to revisit D3.js, However, I would prefer to gain more of mastery in using canvas, JQuery, Ember.js and continue to build a solid understanding of JavaScript before trying to master D3.js. In addition, I would like to have found a d3.js tutorial better explaining the mathematics applied.

Despite the challenges, I think learning d3.js in the future would be a great skill to have as it creates many different ways to display data and smay be a useful skill to employers.

In contrast to D3.js I found learning Reveal.js a more intuitive experience and would use it again in a future project.

References

Becker, S. (2013, July 1). D3.js: Creating a Bar Chart | Devedo.TV. Retrieved August 18, 2014.

Bostock, M. (2010, January 1). D3.js - Data-Driven Documents. Retrieved August 18, 2014.

Stephen, T. (2012, November 5). Web-Based Visualization Part 1: The D3.js Key Concept. Retrieved August 18, 2014.

Villalobos, R. (2014, August 7). Ray Villalobos at Lynda.com. Retrieved August 18, 2014.

Warwick, J. (2013, November 26). D3 Pie Chart. Retrieved August 18, 2014.