

CSE 134B HW #1

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Analysis for Vanilla Version:

Implementing the vanilla version took about 4 hours. It took some time to research and google how to use certain CSS attributes in order to position elements and style our website elements, but once we got the rules down for a certain HTML tag attribute or class, the same class was used over again for similar elements on our website. The CSS file we used to style each wireframe is about 100 lines of code. The byte count for the whole wireframe file is 1.81 MB. In general our html files for the vanilla version had less lines of code than the bootstrap version because of all the div's we had to use for the bootstrap version to get all the grid layouts. For the entire home page of the vanilla version, the average time it took to load up from a low end device perspective was approximately 2,933 ms. On a higher end device perspective, the time taken was 1,198 ms. On a 3g network, the homepage loaded in 2,432 ms on average and on a wifi network, the page loaded in 713 ms.

Analysis for Bootstrap Version (Framework):

For bootstrap, we used version 3.3.7 of the bootstrap.min.css file for our wireframes, taking pre-defined classes in that css file to style our elements through many more div tags. It took a bit of research to determine what classes to use and how to position our columns for the grid layout, but it took about 3 hours, less than the vanilla version. The byte count for the whole bootstrap file was about the same as our vanilla wireframe file, 1.81 MB. In general, the html files for this version had more lines of code because of the amount of div tags and col classes that we had to use. For the entire home page of the bootstrap version, the time taken to load up from a low end device perspective was approximately 3,083 ms. On a higher end device perspective, the time taken was decreased as the total time was 1,279 ms. For a 3g network, the website loaded on average about 3543 ms and on a wifi network, the home page loaded in 885 ms.

Comparison and Appropriateness:

On both a 3g network, the time taken to load up the home page is shorter on the vanilla page. The reason the bootstrap version takes longer is because the css page from the bootstrap version takes longer to load because of all the classes that it contains.

Bootstrap provides standardized platform with all the basic styles. It saves time to build on predefined templates and creates a consistent design among different developers. The problem is that bootstrap can require a lot of overriding styles if we have lots of customizations. In this

case, the vanilla approach would be more appropriate. If it is just a simple layout, then bootstrap templates and classes would be ideal in order to save work time. However, if loading time becomes an issue, then we may not want to use bootstrap or other frameworks in simple websites.