10 — Lab 10: Bootstrap

10.1 Introduction

Now it's time to work on the UI (user interface) of your personal webpage. Bootstrap is a very popular "front-end framework" that uses HTML, and CSS, and JavaScript. Additional functionality can be provided by the use of the jQuery's JavaScript framework. Read more about Bootstrap at `http://www.sitepoint.com/top-10-front-end-development-frameworks/`

In this lab you will rewrite your home page on thecity using Bootstrap. Remember, you'll be presenting your site at the end of the semester, so it is suggested that you pick some cool feature from Bootstrap (or jQuery, etc.) that you like and implement it on your page.

10.2 Introduction to Bootstrap

First, take a look at what bootstrap can do.

10.2.1 Bootstrap CSS

Start with the overview at `http://getbootstrap.com/css/#overview`, then continue through the scaffolding (or grid) system at `http://getbootstrap.com/css/#grid`. Scan through the rest of this page to get an idea of the CSS options that Bootstrap offers.

10.2.2 Bootstrap Components and JavaScript

Scan through `http://getbootstrap.com/components/` and `http://getbootstrap.com/javascript/` to get an idea of what Bootstrap has to offer.

10.3 Classwork

Your task today in class will be to add a Bootstrap layout to your home page. Instead of having to reinvent the wheel, there are some very useful tools to help you develop your Bootstrap page.

10.3.1 Bootply

Bootply is a website that allows you to easily layout your Bootstrap-powered page. Go to `http://bootply.com/` and look around. If you wish to use visual editing, you will need to create an account.

10.3.2 Choose a template for your home page

The easiest way to begin will be to use one of the templates that Bootply offers. From the Bootply homepage, click on Play Now on the right-hand side of the page. On the left-hand side of the page that comes up, you should see a number of templates, such as basic starter, fixed nav with sticky footer, etc. Look at these layouts and see if you like one of them. Be sure to click on settings, where you can choose a different theme for your template. You can play with the layout using the Bootply editing window.

10.3.3 Migrate your current home page

Step 1

Note: Before beginning, it is recommended that you make a backup copy of your existing home page!

Open your current home page in NetBeans. Take a look at which components you wish to migrate over to your new Bootstrap template page. Copy some of the elements, such as menu items and links, to the Bootply editing page. You can click on Run to see what it looks like.

Step 2

You can either download the page from Bootply (click the cloud with the down arrow symbol), or you can cut-and-paste. To cut-and-paste, click in the editor window and type `ctrl`+`a` / `⌘`+`a` (Windows / Mac), then `ctrl`+`c` / `⌘`+`c` to copy; move to the NetBeans editor window, move your cursor to where you wish to paste the code, and type `ctrl`+`v` / `⌘`+`v`.

Complete copying the relevant elements from your existing home page to your new Bootstrap-powered page, and upload it to your site.

10.3.4 Migrate your current site

When you have finished your home page, convert the rest of your site's pages to Bootstrap.