

# IST 400

## Advanced Web Design

### Spring 2016

### Lab 9

#### Instructions:

1. To get started, download the *lab9.zip* file from Blackboard.

#### Grading:

This exercise will be worth 10 points. Full credit will be rewarded for the successful completion of each item below.

**This lab will be due Wednesday, April 20th at 12:45 PM!**

#### Exercise 1: index.html (10 Points)

I want you to write your own custom plugin for this page. You can name this function whatever you'd like.

The requirements for this plugin are as follows.

1. The function should be applied to the main navigation menu.
2. For each anchor tag within the menu, a click event handler should be applied.
3. When any anchor tag is clicked, the default action associated with clicking an `<a>` tag needs to be prevented (meaning, I don't want the page to jump to the section specified by the anchor). HINT: Look into the `preventDefault()` method.
4. Instead of jumping directly to the element specified by the anchor tag, I want you to animate moving the body of the page to that section. HINT: The property you will want to animate is `scrollTop`. The value for `scrollTop` will be based on the element's position from the top of the page. HINT: Find the element's offset from the top of the page using the `offset()` method.
5. Your plugin should have a customizable option called `duration`. When you invoke your plugin, I want you to override its default value to a time of your choice. This setting should be used as the duration value for scrolling to the elements specified by the anchor tag's href values.

In addition to the plugin you create, there are a few I want you to download and apply to this page.

1. **Slick Carousel** -- <http://kenwheeler.github.io/slick/>.  
I want you to download this plugin and add it to your site. For this particular plugin, I want you to also add the CSS file from the download. I want you to apply this plugin to the "image slider". I want you to change a few of the default configuration options for this plugin. I want the "arrows" to be hidden, "dots" to be visible, the slides should "fade" from one to the next, the "speed" should be every 1 second, and the slider should "autoplay".
2. **Headroom** -- <http://wicky.nillia.ms/headroom.js/>.  
To the header element, I want you to apply the plugin, `headroom.js`. You can download the plugin from the GitHub link at the top of the plugin's main page. From the downloaded folder, use the plugin files in the "dist" folder. HINT: For this plugin, you may need to add more than one .js file to your site – read the jQuery integration instructions! For the properties, I want the "unpinned" class name to be set to "unpinned".

3. **Scrollify** -- <http://projects.lukehaas.me/scrollify/#home>

I want you to apply the Scrollify plugin to the main sections of this page. HINT: The syntax to invoke this plugin maybe a little different than what we're used to. We're not selecting elements to apply this method to, but instead calling the method and specifying a selector in the "section" property.

4. **ScrollClass** -- <https://github.com/virgiliud/scrollClass.js/tree/master>

I want you to apply this scrollClass plugin to the site's main sections. In order for this plugin to work properly, you will need to apply an HTML5 data attribute to the site's main sections. The attribute is listed in the GitHub developer instructions. The value for this attribute should be "scrolled" – this is the class that will be added to those sections when they come into view.