

ICS 314: Software Engineering

University of Hawaii, Fall 2013

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A13: Bootstrap WODs

Learning objectives

The learning objectives for this assignment include:

Basic Bootstrap-based UI development. Become familiar with basic features of

Bootstrap 3 and how to use them to create a user interface.

Eclipse for web page development. Continue to practice the use of Eclipse (with Web Tools and Word Wrap plugins) to do basic UI development.

CSS debugging with Chrome Developer Tools. Practice the use of Chrome (and its Developer Tools package) and auto-reloading (with LiveReload or equivalent) to display and inspect web pages.

Efficiency. Become fluent with basic Bootstrap, HTML ,and CSS concepts so you can quickly write basic web pages .

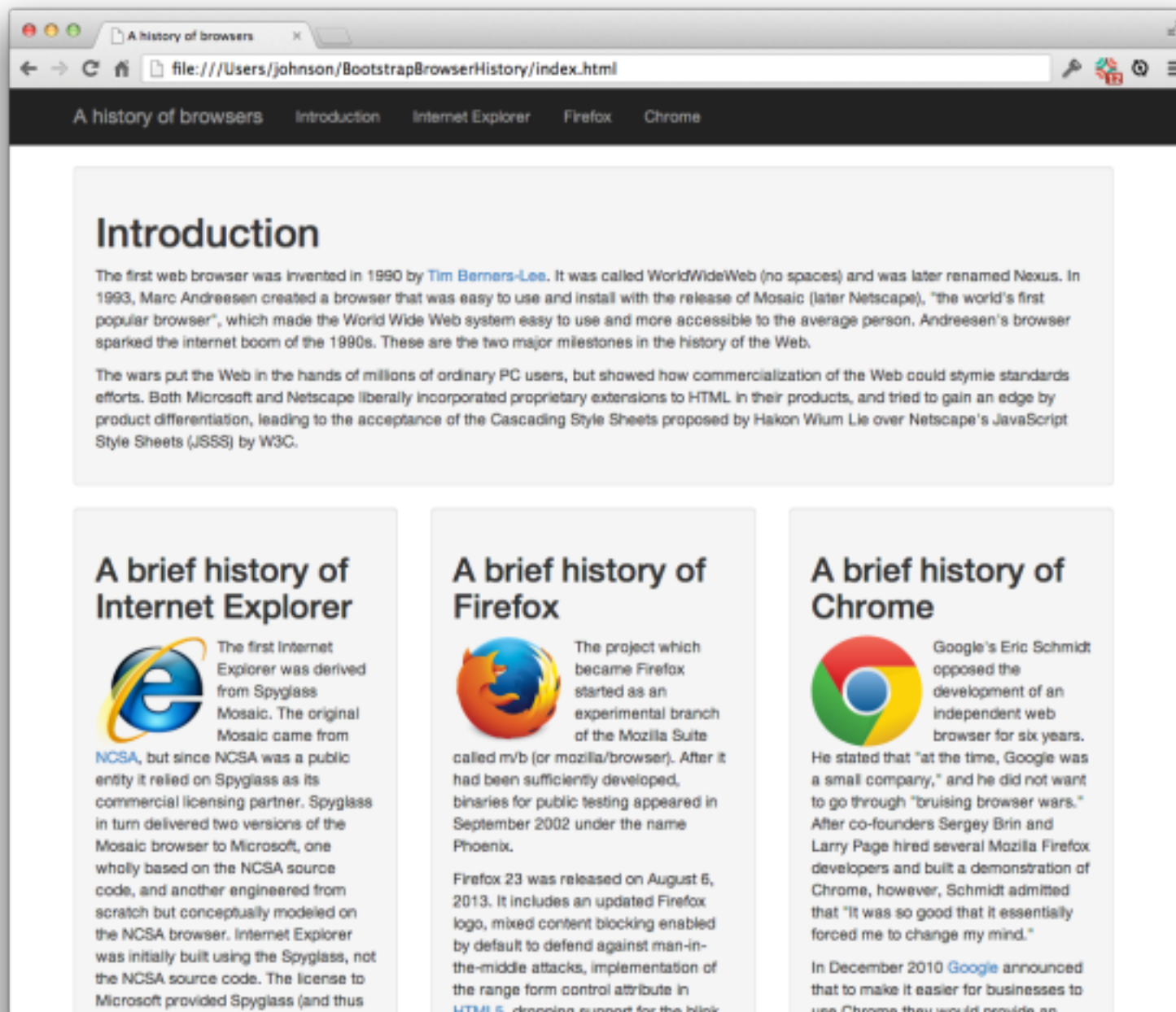
Practice WODs

Practice WOD Bootstrap-1: BootstrapBrowserHistory

Prior to doing this WOD, you should have: (a) completed the Bootstrap Bookmarks assignment; (b) watched all the bootstrap-example-intro screencasts; and (c) practiced downloading the bootstrap-example-intro code for use as templates (as shown in the screencasts), and (d) completed the BrowserHistory3 WOD from the UIBasics module, and have that project available to you within Eclipse.

Start your timer.

Create an Eclipse project called BootstrapBrowserHistory and use it to implement a Bootstrap version of BrowserHistory3. Use the default bootstrap theme, change the title and navbar logo to “A history of browsers”, create a three column responsive layout, and use the “well” class to provide some visual interest. Your solution should look similar to the following:



When finished, stop your timer, and record how many minutes it took you to create this

web page.

Rx: 15 min / Av: 20 min / Sd: 25 min / DNF: 25+ min

Once you've finished, watch me do the BootstrapBrowserHistory WOD:

Warning: you'll learn nothing from watching me if you haven't attempted the WOD yourself first. After watching my solution, you should repeat the WOD if you have not

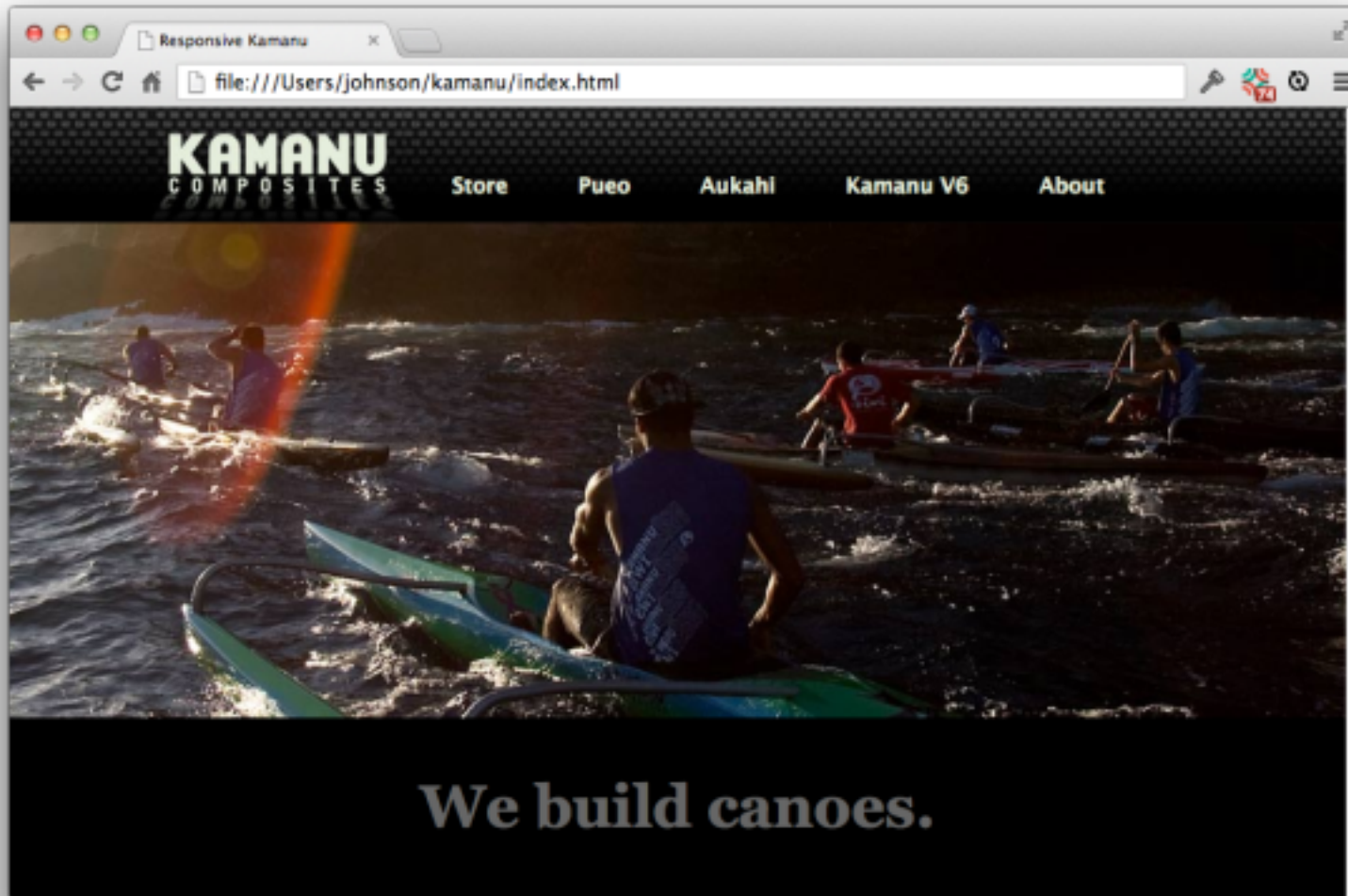
achieved at least Av performance. If so, be sure to: (a) delete your old project so you cannot refer to it; (b) don't look at my screencast while you WOD; and (c) reset your timer. Feel free to keep trying until you make Rx if that's of interest to you.

Practice WOD Bootstrap-2: Responsive Kamanu

Kamanu Composites is a local company that produces very high quality outrigger canoes. They also have a pretty nice website. For this WOD, you will reimplement a portion of their home page using Twitter Bootstrap. The goal of this exercise is to gain additional experience manipulating HTML, CSS, Chrome Developer Tools, and Twitter Bootstrap.

Prior to starting this WOD, you may want to visit the [Kamanu Composites website](#). (Full disclosure: [I own a Pueo](#).)

Here is what your completed implementation should look like:



Here are some hints to guide you in your implementation:

- Your goal is to create a single page that mimics the first three elements of the Kamanu home page: the nav bar, the picture, and the tag line “We build canoes.” You do not have to implement any other aspect of their home page.

- Base your implementation on the [bootstrap-example-intro “basic”](#) template. That will give your page a responsive nav bar (which Kamanu Composites currently lacks.)
- Download their [logo](#), [navbar background image](#), and [padding picture](#) and incorporate those graphical elements into your version.
- Use Chrome Developer Tools to inspect their page layout and figure out the fonts and colors they are using.
- Use Chrome Developer Tools to inspect and override Twitter Bootstrap defaults as needed to mimic their site layout.

Start your timer.

Create an Eclipse project called ResponsiveKamanu and use it to implement a version of the Kamanu Composites home page using Twitter Bootstrap:

- *Base your design on the [bootstrap-example-intro basic](#) template.*
- *Change the page title to “Responsive Kamanu”.*
- *Incorporate the [logo](#) into the navbar.*
- *Adjust the navbar so that excess padding around logo is removed.*
- *Incorporate the [Kamanu carbon fiber graphic](#) as a repeated background image in the navbar.*
- *Eliminate the black background from navbar menu items.*
- *Edit the set of navbar items to be similar to those on the Kamanu website.*
- *Adjust the font, position, and spacing of navbar items to be similar to the Kamanu website.*

- Incorporate the *paddling picture* underneath the navbar as a background image. Use background-size: cover, background-position: center, and height: 385px properties to get a pleasing appearance.
- Adjust the body element so that the paddling picture shows up under the navbar.
- Add the “tagline bar” (“We Build Canoes.”) into your page, making it look similar to the one on the Kamanu Website.

When finished, stop your timer, and record how many minutes it took you to create this web page.

Rx: 25 min / Av: 30 min / Sd: 40 min / DNF: 40+ min

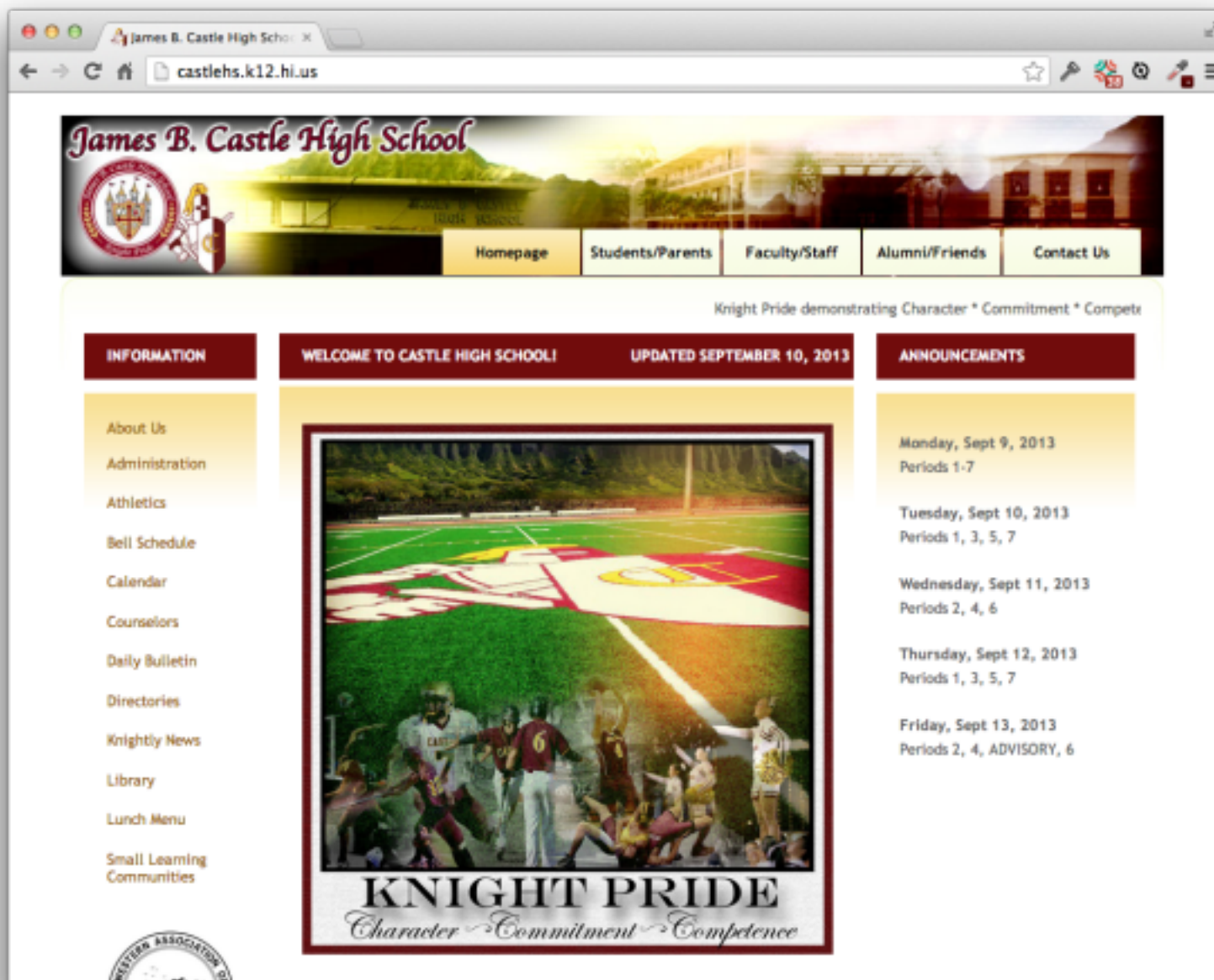
Once you’ve finished, watch me do the Responsive Kamanu WOD:

Warning: you'll learn nothing from watching me if you haven't attempted the WOD yourself first. After watching my solution, you should repeat the WOD if you have not achieved at least Av performance. If so, be sure to: (a) delete your old project so you cannot refer to it; (b) don't look at my screencast while you WOD; and (c) reset your timer. Feel free to keep trying until you make Rx if that's of interest to you.

Practice WOD Bootstrap-3: Responsive Castle High

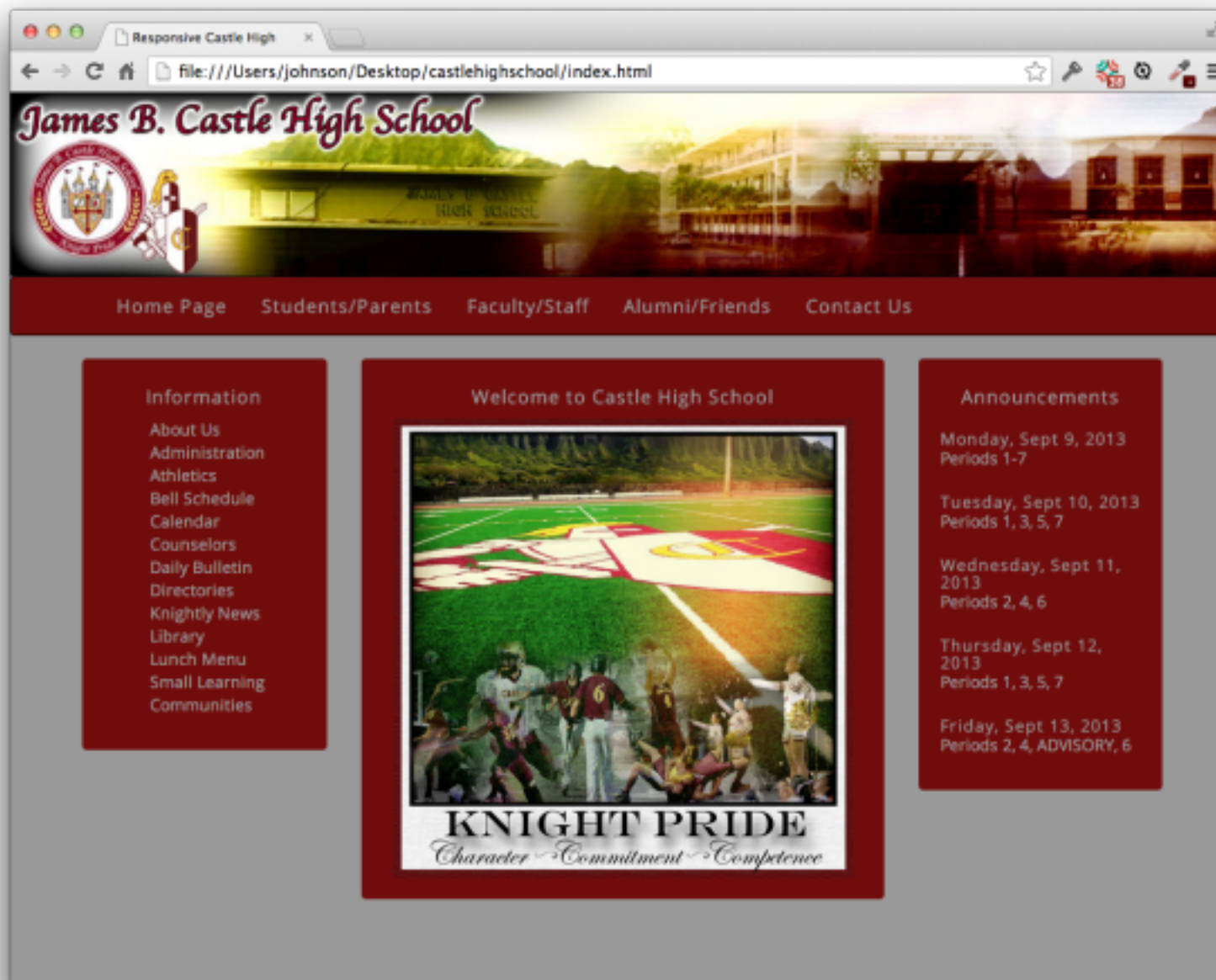
School

Castle High School has an old school website: fixed-width, a “marquee” with sliding text, and vaguely superfluous color gradients:



Be sure to take a moment and [visit the Castle High School site](#) as preparation for this WOD.

Let's give them the beginnings of a website make-over using Twitter Bootstrap. We'll keep the banner image, the three column layout, and the central picture. But we'll make everything responsive and use a more modern "flat" design. Here's what you should shoot for:



For this make-over, we'll incorporate two colors from the original design: the red and the gray. We get rid of the marquee. For this prototype, we won't include all the content from

the home page, just the top parts of the three columns. Finally, to improve the usability, we'll eliminate the center section entirely from the mobile layout:



Directories
Knightly News
Library
Lunch Menu
Small Learning Communities

Announcements

Monday, Sept 9, 2013
Periods 1-7

Tuesday, Sept 10, 2013
Periods 1, 3, 5, 7

Wednesday, Sept 11, 2013
Periods 2, 4, 6

Thursday, Sept 12, 2013
Periods 1, 3, 5, 7

Friday, Sept 13, 2013
Periods 2, 4, ADVISORY, 6

Ready? Start your timer.

Create an Eclipse project called *ResponsiveCastleHigh* and use it to implement a version of the Castle High School home page using Twitter Bootstrap:

- Base your design on the *bootstrap-example-intro thesesareus* template. (This provides template code for a three column layout).
- Load the Open Sans google font.
- Change the bootswatch simplex theme back to the default bootstrap theme.
- Use #710C0C as the red color and #999 as the gray color.
- Remove ThesesAreUs CSS styles.
- Put the *Castle High School banner image* at the top of the page.
- Below the banner image, put the navbar. Make the navbar background red and the text gray.
- Set the navbar link names to those from the real site.
- Make the background of the entire page gray.
- Make navbar links and titles 16px.
- Replace the default Helvetica font with Open Sans everywhere in the site.
- Below the navbar, put three columns: a col-md-3 “Information” column, a col-md-6 “Welcome to Castle High School” column and a col-md-3 “Announcements” column.
- Make the background of all wells red, and their text gray.
- Add 12 link labels taken from the real site to the Information column, make them gray, and remove the bullet (i.e. set list-style-type to none).

- Add the ***Knight Pride image*** to the middle column, centering it and making it 400px high.
- Add the period schedule to the Announcements column.
- Set the middle section to be hidden at mobile screen sizes.

When finished, stop your timer, and record how many minutes it took you to create this web page.

Rx: 30 min / Av: 40 min / Sd: 50 min / DNF: 50+ min

Once you've finished, watch me do the Responsive Castle High School WOD:

Warning: you'll learn nothing from watching me if you haven't attempted the WOD yourself first. After watching my solution, you should repeat the WOD if you have not achieved at least Av performance. If so, be sure to: (a) delete your old project so you cannot refer to it; (b) don't look at my screencast while you WOD; and (c) reset your timer. Feel free to keep trying until you make Rx if that's of interest to you.

Submission instructions

By the date and time indicated on the calendar page, you should attempt all of these practice WODs at least once, and write a blog entry that summarizes your experiences developing them. Do not include the source code in your blog entry. Instead, provide a brief introduction to the assignment along with a link to this page for further details, then discuss your experiences with each practice WOD.

For each practice WOD that you finished, describe how long it took to finish for each attempt and what you learned (about Twitter Bootstrap, HTML, CSS, Eclipse, LiveReload, and Chrome Developer Tools). For each WOD that you DNF'd, explain what happened and what you learned. If you did a WOD multiple times, report the times of all of your attempts and what you learned by doing them more than once. Make sure your writing is “for the world”, not “for the instructor”.

Send johnson@hawaii.edu an email with a link to your finished blog entry. Make sure your link starts with “http:” so that I can click on it in my mailer. Make sure that it also appears as one of your postings when someone clicks on the “Postings” link of your professional portfolio. Note: the subject line must be **[ICS 314: A13]**. If the subject line is different, then I might not see the email and you might not get credit for this assignment.

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