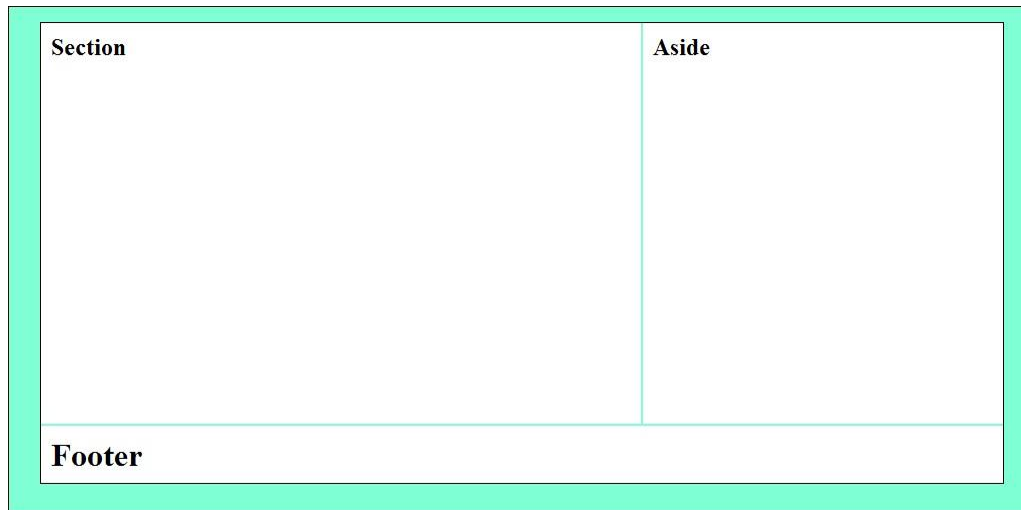# Website Project Requirements ~ Fall 2015

You are to design, develop and publish a web site using recommended design practices. You must complete all of the following requirements for your website project. Unless otherwise specified, you may choose to complete the requirements on any page(s) you wish.   Your website must be considered professional and pertain to the theme that you selected. **Please note:** You must write all of your own code. You are NOT allowed to use a GUI tool that generates code for you! The code that is generated is very easy to spot, so please don't violate this requirement. You may use an HTML editor, however.   You will be graded on all categories listed in red. These categories and their details are listed below.

1. Start by choosing a layout. You MAY choose layouts similar to layout 1, layout 2 or layout 3. You can choose a different layout of your own design, however there must be some structure to your layout.

Layout 1:   Two columns and a footer

In this layout all of the pages should be two-column with a footer, but no header.

Sketch of the general layout of the pages

Page information for Layout 1
- Each page should be fixed width and centered in the browser window.
- You don't have to use borders for any of the components of a page unless, of course you want to. The sketch above is just intended to show you what the components of the pages should be.
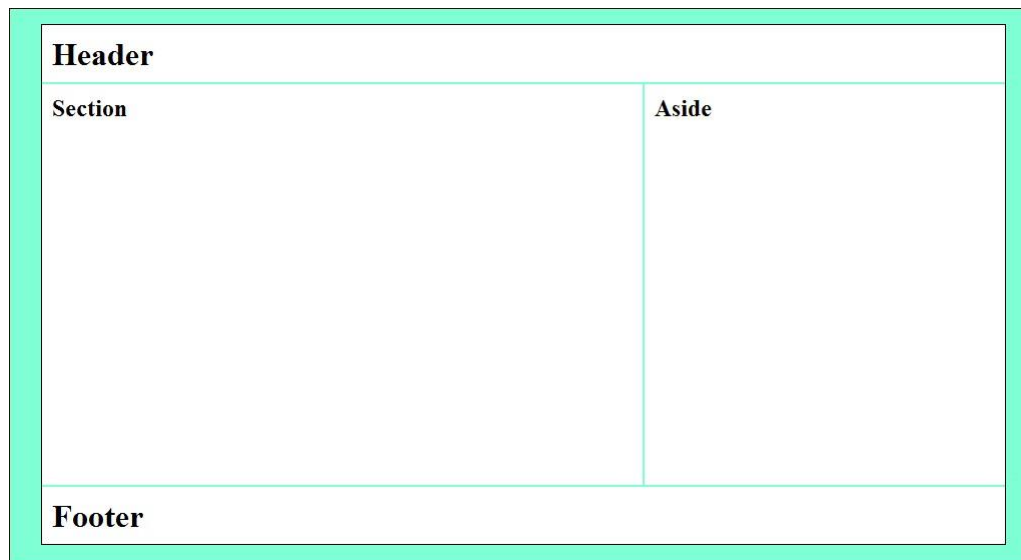
Page contents
- The main section for the home page should include an image and text.
- The home page should include an unordered or ordered list. This list can be in the main section or the aside.

- The aside for the home page should include links to your other pages. The asides for the other pages should include at least a link back to the home page but can contain any additional content.
- Beyond these minimal layout specifications, you are free to present your content in whatever way you think works the best. For instance, you can have links, images, and content in both the main sections and asides. Have some fun with it!
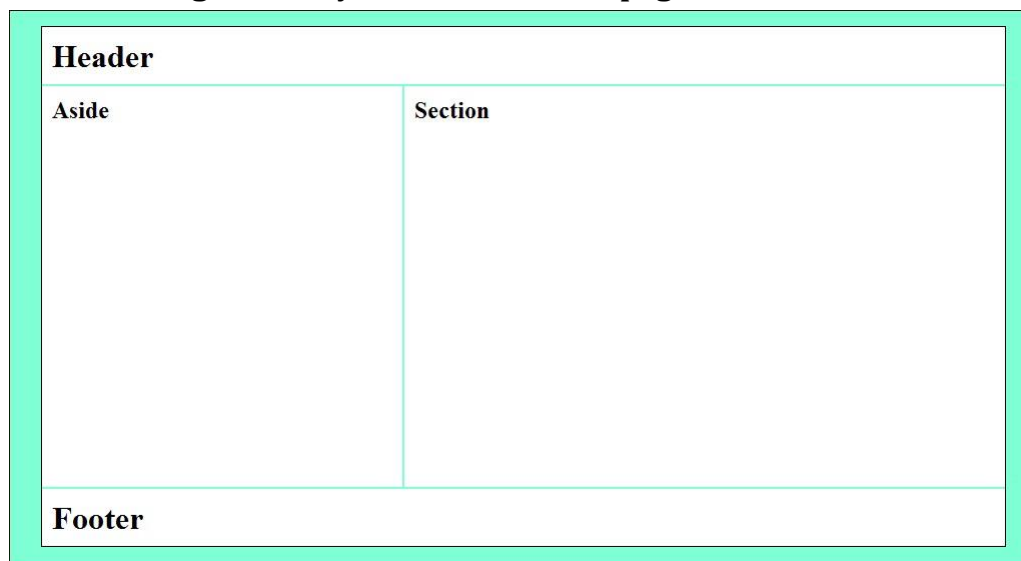
Layout 2:   Two columns with header and footer

In this layout all of the pages should contain a header, two columns, and a footer. Note, however, that the home page and the content pages have different page layouts.

Sketch of the general layout of the home page

Header	
Section	Aside
Footer	

Sketch of the general layout of the content pages

Header	
Aside	Section
Footer	

Page information for layout 2

- Each page should be fixed width and centered in the browser window.
- The header for each page should include a web site title and a tag line, but a logo image is optional.
- You don't have to use borders for any of the components of a page unless, of course you want to. The sketch above is just intended to show you what the components of the pages should be.

Page contents

- The main section for the home page should include an image and text.
- The home page should include an unordered or ordered list. This list can be in the main section or the aside.
- The aside for the home page should include links to your other pages. The asides for the other pages should include at least a link back to the home page but can contain any additional content.
- Beyond these minimal layout specifications, you are free to present your content in whatever way you think works the best. For instance, you can have links, images, and content in both the main sections and asides. Have some fun with it!
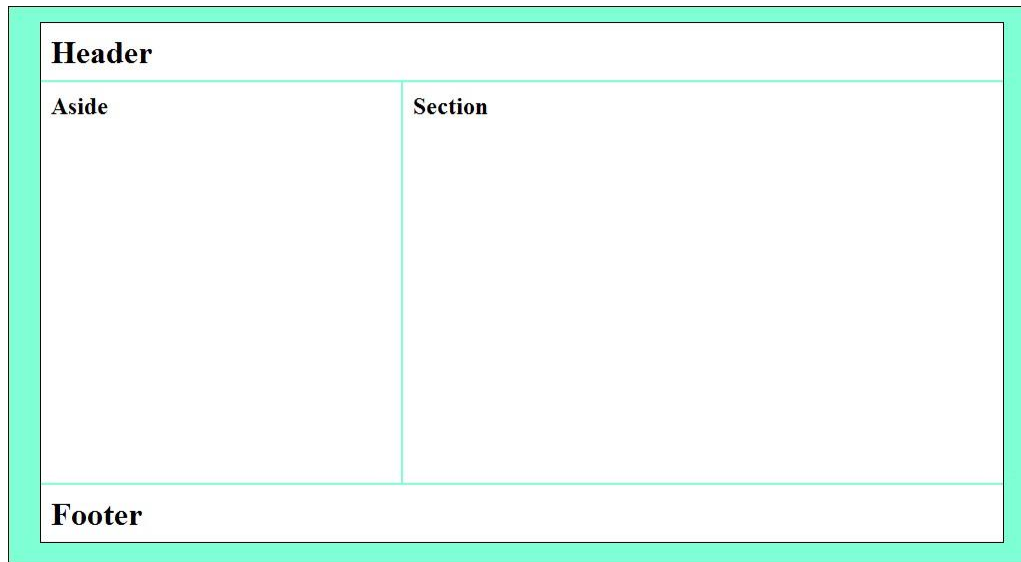
Layout 3: Three-column home page with two-column content pages

In this layout, all of the pages should contain a header and a footer. Notice that the home page has three columns, and the content pages have two columns.

Sketch of the general layout of the home page

Header		
Sidebar A	Section	Sidebar B
Footer		

Sketch of the general layout of the content pages

Header	
Aside	**Section**
Footer	

Page information for layout 3

- Each page should be fixed width and centered in the browser window.
- The header for each page should include a web site title and a tag line, but a logo image is optional.
- You don't have to use borders for any of the components of a page unless, of course you want to. The sketch above is just intended to show you what the components of the pages should be.

Page contents

- The main section for the home page should include an image and text.
- The home page should include an unordered or ordered list. This list can be in the main section or either one of the asides.
- The left aside for the home page should include links to your other pages. The left aside for the other pages should include at least a link back to the home page, but may contain any additional content.
- Beyond these minimal specifications, you are free to present your content in whatever way you think works the best. For instance, you can have links, images, and content in both the main sections and asides. Have some fun with it.

2. Determine a good domain name.

Use http://www.register.com to make sure that your domain name is available. **YOU DO NOT NEED TO PURCHASE A DOMAIN NAME FOR THIS PROJECT!** We are just choosing a good, available domain name that would be a good fit for a project such as yours.

3. Review the General information regarding your pages:

General:

- You must use META tags for description, keywords and author.
- Must be a minimum of 4 pages (one of which will be a form) and a maximum of 8.   Your page must use proper form/nesting of tags.
- You must include comments on each and every page
- All pages must use proper HTML5 format
- All pages must include a relevant title

HTML and CSS files and directories

- The HTML file for the home page must be named index.html.
- The names of the other pages should indicate what the pages represent.
- You should use one CSS file named main.css for the home page and another CSS file named content.css for the other pages.
- The images for the web site should be stored in a directory named images, the CSS files should be stored in a directory named styles, and the HTML files should be stored in the main directory for the web site.

General Appearance:

- Your website must have a consistent theme. Your website must have a consistent theme as indicated in your theme/topic assignment.
- You must have a navigation that is easy to use.
- Your website must look professional.
- Be careful not to plagiarize your site. This falls under the same plagiarism rules as you would if you were writing a paper. **If you do plagiarize your site, you will receive a zero for this assignment.**

Accessibility:

- You must use alternate text for all images
- Conduct and pass accessibility testing by using http://wave.webaim.org and http://www.achecker.ca.checker.

Functionality:

- All of your links must work.
- Your website must be published using a webserver. You will need to gain access to a web server in order to publish your site.   As a student you have access to the CIS web server. If you have your own server and would like to use that feel free. **There will be more information to follow regarding the CIS webserver.**
- Your website must be validated for HTML5 (with the exception of a few special elements that may not validate)
- Your CSS must validate correctly.

4: Begin creating your home page and at least two other pages using your HTML and CSS skills (refer to page 609 for guidelines for developing an effective home page). To that end your relevant content in the initial version of your web site should show your mastery of:

- Headings, text, and character entities
- Links and lists
- Images (Be sure to read Step 8 in this document)
- Margins and padding
- Borders and backgrounds
- Floating

5: Modify your site to include the following design, graphics, and typography principles:

- Use the principles and guidelines presented in this book and especially in chapter 18 to make the design of your web site as effective as possible.
- Implement the header and navigation conventions in figure 18-2 on page 605.
- Do your best to write for the web by implementing the guidelines in figure 18-9 on page 619.
- Implement the typographical guidelines throughout your site found in figure 18-8 on page 617.
- Do your best to implement the graphics design principles in figure 18-8 on page 617.
- Both Mozilla Firefox and Internet Explorer should render each page gracefully.
- Your pages must render gracefully on various resolutions using Responsive Web Design.
- Your page must be visually appealing for the target audience; including the use of color, contrast, text, graphics, and multimedia.
- You must use appropriate navigational organization
- You must adhere to best practices including page layout, browser compatibility, navigation, colors and graphics, multimedia, content presentation, functionality and accessibility.
- You must consider usability.
- You must not have excessive download times.

6.   Modify your pages to allow for the material covered in Chapter 7: Links and lists

- Change the bullets, numbering, or formatting of one or more of your lists.
- Add links to your site that link to other web pages and open them in new tabs or windows.
- Add a link that starts an email to one of your pages.
- Add a navigation bar to the header of your site.
- Add a navigation list to one or more pages.

7. **Modify your site to include at least two of the elements listed below for the material covered in Chapter 9: Images**

- Add links that consist of images.
- Create and add a favicon.
- Add an image map that links to two or more different pages.
- Image rollovers

8. **You must keep a separate HTML file called images.htm. The information listed below must be kept in a tabular table which is covered in Chapter 10: Tables.**

- This page must include information for all of the images/graphic elements you use on your site. All of this information is to be kept in a tabular table. It will be your responsibility to continue to update this information for the duration of the semester each time you use a graphic of any kind. Content is to include the following information regarding each image:

  - ✱ The name of the graphic file
  - ✱ The name of page/pages it is used on
  - ✱ The place of origin (where you obtained it from)
  - ✱ Any author information and notes/permission rights.
  - ✱ Which Creative Commons license condition you are using.

- You must have a small, discrete link to the **images.htm** at the bottom of your home page.

9. **Add a form that lets the user enter information relevant to your site using the principles and skills covered in Chapter 11: Forms.**

- Be sure to use as many form elements that will show your mastery of forms. You must also include Reset and Submit buttons.
- Of course, the data won't be processed because there's no client-side or server-side script for doing that. However, the data be submitted to a page that has a link back to the home page. Also, the data that is passed to the page should be visible in the URL for the page.
- Use HTML5 for data validation
- Use relevant HTML5 Controls

10. **Add at least one relevant audio or video to your site by embedding the players or files into your pages following information covered in Chapter 12: Audio and video**

11. Modify your site to include at least one JavaScript element and one JQuery element from the material covered in Chapters 15 and 16: JavaScript and JQuery

Some examples are as follows:

- The current date
- A Print button that will print the home page of your site
- A popup window
- Image rollovers
- Thumbnail photos and image swaps
- A slide show
- A carousel
- A slide show
- An accordion
- Auto-completion
- A pop-up dialog box
- A sortable list

12. Modify your site to include at least one of the elements listed below for the material covered in Chapter 17: Mobile. You do not have to create an entire mobile site, just the home page!

13. Be sure to publish and test your site.

- **Information regarding publishing will be given later in the semester.**

I know this is a lot of information. If you have any questions, please do not hesitate to ask.