*Revised February 17, 2021 at 10:55 AM*

## Objective

The objectives of this lab are to

- Demonstrate basic responsive design skills with a media break.
- Demonstrate skills using pseudo-classes to target specific HTML elements.
- Demonstrate ability to use background images
- Continue to refine your flexbox skills.
- Exercise ability to build multi-page websites,
- Exercise ability to use installed fonts.

## Task

Your task is to build out three similar pages (from a single template), each containing a limerick with a supporting image. You may use limericks I provide, or use different limericks if you prefer. Your three pages will be linked by an on-screen menu. You may build more than three limerick pages, but you may not build any non-limerick pages for your site.[1]

If you are unfamiliar with limericks, you can read up on them by googling, or by visiting Wikipedia: https://en.wikipedia.org/wiki/Limerick_(poetry)

## Specifications

One of your pages will be named index.html. You may name your other two pages as you wish, but all three HTML documents must be placed in your Lab 7 root folder. Images go into a shared /images subfolder. CSS goes into a shared /css subfolder. **You will write one CSS file that will be shared by all of your HTML files.**

Your HTML head should include the same elements required for prior Labs. You MUST employ a reset.css or normalize.css file linked from your HTML head.

Your three pages must have the same look and feel, and the same responsive behaviors as each other. It should feel to the user that she is on one consistent website. To achieve this: the three pages should be built from the same template, with only the limerick and image content changing. Your menu must use relative URLs. All of your calls to images, CSS, and installed fonts must use relative URLs.

All of your HTML pages and your CSS file must pass validation for full credit. [Exception made for any errors Google Fonts creates for you.] You should not generate any warnings for <articles> or <sections> lacking headings, though this will not impact your grade.

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[1] In past some have built a separate home page or a splash page. Don't do that.

**You must make use of one or more one or more installed Font.** **Note this means loading the font from your server and installing it with @font-family rather than linking directly to a Google or foundry font.** I'll provide some installed fonts for you to select from; you may use other installed fonts if you have access to them.  There are also several free font foundries such as:[2]

- You can download and install fonts from Google Fonts
- https://www.1001freefonts.com/
- https://www.dafont.com/
- https://www.fontsquirrel.com/
- https://www.fontspace.com/popular/fonts

Remember your installed fonts must be placed on your webserver.  Please place them in a /fonts subfolder.

**IMPORTANT:  For this lab you are NOT permitted to use any CSS selectors with class names or ID names.**  Yes, this is a bit artificial, but the requirement exists to force use of pseudo-class and/or attribute selectors.  This requirement exists to encourage the learning exercise of using these more advanced selectors.  *Anyone who uses a class or id selector starts with a grade of Silver (an 80).*

All of your pages will have the same page heading.  You may name your site as you wish.  Your menu items must appear as buttons and react to mouseover and mouseclick behaviors.  **You must replace text with background images on your buttons.**

Each limerick title will appear in the same box as the limerick content.

**IMPORTANT:  Your limericks must be formatted with indentations as such:**

> The limerick packs laughs anatomical
> Into space that is quite economical.
> > But the good ones I've seen
> > So seldom are clean
> And the clean ones so seldom are comical.

Note the third and fourth lines are indented.  **You must indent using a pseudo-class**.  You are not permitted to use a different element to get at these lines (that is: use the same element you used for lines 1, 2, and 5).   I am flexible as to how far you indent these lines.

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[2] If you know of other foundries, please share in the discussion forum.  And you can google for "free font (or type) foundry" and will get many results

Your page heading will have your site title.  There is no need to place a limerick or image in the header (as shown on my screen capture).

Each page must have a footer that will contain author and/or copyright information for the limerick (if known), or a simple statement that the limerick authorship is not known.  You may add other content to the footer if you like.

You must place a foreground image to the right of each limerick.  You may use CSS techniques to crop this image if needed to make it fit properly.

Your solution must be responsive in the following manner:

On a large device,
- Your content wrapper will be between 640px and 960px (if fixed width) or 75% of the page width (if variable width) and centered on the page.   (*hint: life is much easier if you use a fixed width*.)
- The menu will be to the left of the limerick/image content.
- The menu items will be vertical.

On a small device,
- Your content wrapper will be 100% of the width of the page (you may place a margin around your content wrapper if you wish).[3]
- The menu will be full width above the limerick title and content.
- Image sits below the limerick.
- The menu buttons will be horizontal.

You may determine at what pixel count to place the breakpoint.   I am guessing somewhere between just over your large device container width will make sense.  [Note: it is permissible to set your media query in pixels rather than ems; if you use ems, 1em will be your default font size.]

**IMPORTANT: Your page must be laid out using flexbox.**

You have design control over unspecified aesthetics.  You may select colors and borders as you wish. You may add additional foreground or background images if you wish.  You may title your page any way you wish, and you may theme your page to any limerick topic and aesthetic you like.

## Deliverables

This lab is due as stated on D2L.

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[3] If you are having trouble with a vertical scrollbar covering some of your content, post your code to the discussion forum and I'll help you through that problem.

You must submit a reflection to the D2L submission box for Lab 7.
1. The most significant learning outcome for you with this lab.
2. Any "aha" moment you had while doing the lab.
3. Any issues you had with building a multiple page site.
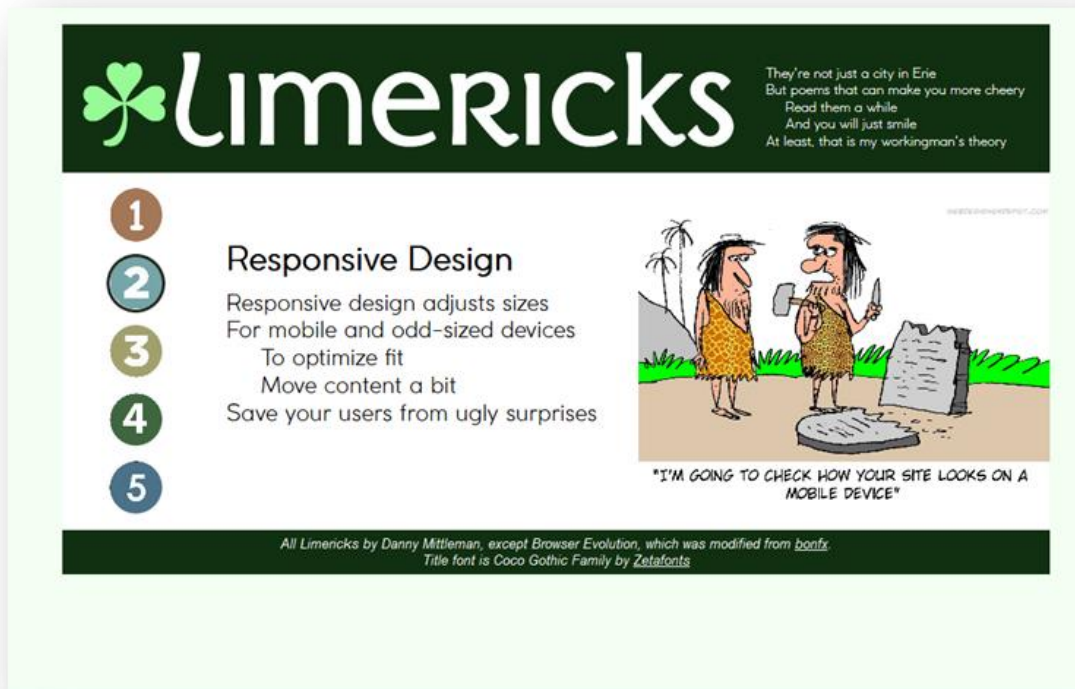4. What outstanding questions do you have that you'd like me to address in class.



*Figure 1 A wider screen solution*

**Your solution does not have to possess the same aesthetics of the solutions above and below.** But these solutions represent the basic wireframe you need to follow. Note also that you are not required to produce five pages nor have a limerick in the heading.
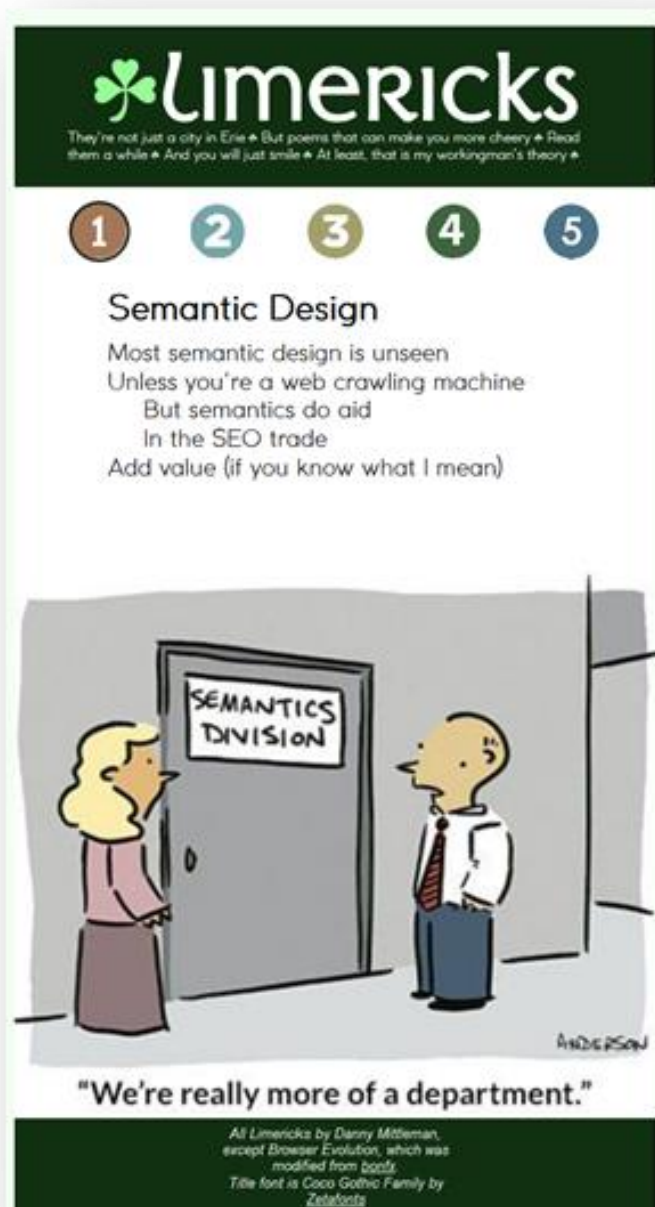
*Figure 2 A narrower screen solution*

## Requirements Checklist

### OVERALL

- HTML and CSS code are well documented.
- **You may NOT use any class names on this lab assignment**.   All your element must be referenced in CSS using pseudo-classes.[4]
- Your submission passes HTML and CSS validation.  Note permitted exception for google fonts <link> element, if that error is present.  Heading warnings are discouraged, but acceptable.
- A reflection is submitted to the D2L submission box; see reflection requirements under "Deliverables"
- Same rules apply discouraging use of divs, breaks, etc. by requiring documented justification of use as in prior labs.

### HTML HEADER

- Reset or Normalize HTML file employed (*hint: attach it before you write any of your own CSS, and link it above your own CSS file*)
- All required header elements (same elements required as in prior labs.)

### PAGE LAYOUT

- Responsive design is employed using a media break.  See page 3 for layout details.

### MENU

- Menu is vertical at wide break and horizontal at narrow break.
- Menu items visually appear as buttons.
- Menu button text is hidden and menu information is conveyed using a **background** image (*hint: the relative URL for your background images is being referenced from your CSS file in your CSS folder, not from your HTML folder—so figure that into the URL you write*)
- Menu items react to hover and mouse-down events.
- Current webpage is indicated visually with different menu item aesthetic treatment [*NB: you can create a -data-variable for this purpose as shown in class on Feb 17.*]
- Other web pages are pointed to using relative URL referencing.

### CSS

- Your CSS is placed into a single CSS file for all of your pages.  To the extent possible, CSS is written once to apply to every page rather than separate CSS written for each page.[5]
- No class names are used to reference HTML elements; only pseudo-classes (or direct element names) are used.  [There is one exception for active web page in menu noted below.]
- All of your text content will be displayed using installed fonts.  See page 2 for details.

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[5] Consider this a design goal.  Can you write your code so you do not have to isolate a page and apply different CSS to it?  Without class names, I'm not sure how you would do that anyway.