

Revised February 08, 2021 at 10:33 PM

Assignment

For Lab 6, you will build out a heading and six portraits of the wives of Henry the 8th. The heading will display above the six portraits. At a very wide width, all six portraits will display in a single row. At a moderate width, the portraits will display as two rows of three portraits. At a narrow width the portraits will display as three rows of two portraits.

Requirements Specific to this Lab

I am providing you with six image files to use. I recommend you build your HTML from the February 8 class demonstration (in class Workshop 6) of the three stooges. Please your images inside of figures so you are able to crop the image bottoms to achieve consistent image height.

The wives names are :

- Catherine of Aragon
- Anne Boleyn
- Jane Seymour
- Anne of Cleves
- Catherine Howard
- Catherine Parr

Place all of your content into a flex-container and use flexbox to manage your general layout. Give your container a fixed width at each of the three breaks.

Use two media queries to manage your two breakpoints. You are permitted to use pixels for screen width in the @media rule. If you use ems, remember your em value is from the root em for an @media rule.

You determine at what width to set your break points to achieve the 6, 3, 2 column layouts. You determine what width to make the flex-container at each of the three sizes. All of this will be based on how wide you make each individual queen's image.

Note that I set each image to be 240px wide, but I have a screen that is 1920px wide. If your desktop screen is smaller than mine, you may wish to start with smaller individual images.

Note that I've resized my heading text so that it always fits on one line, but is large and bold enough to stand out. I used a Google font to get a look I like.

Note that I have some horizontal spacing between items (achieved without padding or margin) and similar vertical spacing (achieved with a margin). My complete CSS (beautified, but without comments) is 54 lines long.

You may make all other aesthetic choices on your own.

General Lab Requirements

[This is identical to last Lab]

1. Do not rely on any browser default CSS. To ensure this is the case, include the following link element in your HTML <head> **ABOVE** your link to your own CSS file:

```
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/meyer-reset/2.0/reset.css">
```

This “reset” file essentially turns off all the default CSS and leaves you to start with a blank presentation slate. *NOTE: If you prefer to do so, you are permitted to download/create your own reset file rather than use one from the CDN. Some people like to customize their reset files.*

2. **Do NOT use Pixel as a unit of measure anywhere in your CSS.** All of your sizing must be done in Em, Percent, VW, or VH.¹
 - **Document both your HTML and CSS with source code notes.** I haven’t emphasized this point until now, but your work should be documented as though someone else is going to maintain it. *Hint: What does that mean? If you are inheriting someone else’s code and are responsible for maintaining, fixing, updating it: what do you want them to tell you in code comments so you can understand what is going on?*
If you desire guidance on how/what to document, please refer to the note at bottom of this page.²
3. As always: the webpage must be built using only HTML5. You are not permitted to use JavaScript at all. You are not permitted to build in XHTML or HTML4.01. Any use of **
** or **<hr>** must be for semantic, not presentational, purposes. Beyond these constraints, you may use any other HTML5 element you deem semantically appropriate.
4. Your page layout **MUST** be achieved using Flexbox. You may NOT use float or position or table or display: inline-block to organize the presentation of your content.³
5. The <head> of your HTML5 file must contain:
 - a. A meta element naming the Unicode character set you want the browser to use (UTF-8).
 - b. a <title> element

¹ Note exception for the @media rule.

² From the PowerPoint slide:

- ➔ **How Good Are Your HTML and CSS Comments?**
 - ↪ I'll summarize for you (next slide). Also has advice on what not to do and how much to write.
 - ↪ <https://www.sitepoint.com/how-good-are-your-html-and-css-comments/>
- ➔ **8 Best Practices for Perfect CSS Documentation**
 - ↪ Excellent and complete article
 - ↪ <https://webdesign.tutsplus.com/articles/css-documentation-best-practices--cms-30139>

³ These are all the other layout systems I can think of.

- c. a meta element naming YOU as the page author. E.G.
`<meta name="author" content="Daniel Mittleman">`
 - d. Recommended: This element: `<meta name="robots" content="noindex, nofollow">` that will prevent search engines from indexing your page.⁴
6. **You must write a source code comment justifying every use of a `<div>`, `<hr>`, or `
` as being the best semantic option in the context it is used. Use of any `<div>`, `<hr>`, or `
` without an adjacent source code justification is considered wrong.**
7. All image URLs and local CSS URLs must be relative references.
- **You must submit a reflection to D2L Submissions box.** You must validate your HTML and CSS and report the outcome. You must discuss what, if any, the learning value was to you on this lab assignment, and you may list any outstanding questions you have after doing the lab.
- Hint: Validating both your HTML and CSS is not only an obligation for submission, but a troubleshooting tool to help you get things right. If you have validation errors, do try to fix them. If you can't figure them out, ask!
- You must name your HTML file index.html and place it in a /lab6 folder. Your CSS must be placed in a /css subfolder; your images must be placed in an /images subfolder. If you install fonts, your font files must be placed in a /fonts subfolder.
 - This lab is due as stated in D2L.

Your task is NOT to design exactly to my aesthetic choices. You are encouraged to make your own aesthetic choices within the confines of the Lab requirements.

Screen captures on the following page

⁴ As you probably don't want this assignment to become part of your permanent portfolio of work on the web. If you do, then change noindex to index.

The Six Wives of Henry the 8th



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