



Lecture 3: CSS

CSS: Questions over reading

- CH 7
 - Colors
 - Transparencies
 - URLs
 - Rules
 - Properties
 - etc.
- CH 9
 - Selectors
 - Relationships
 - Pseudo Elements
 - Pseudo Classes
 - etc.





CSS: Last Week Review

- More in depth look into HTML
 - Why HTML is important
 - Browsers are designed to render HTML
 - HTML has 3 main components
 - Text
 - References
 - Markup
 - Parts of HTML Doc
- Set up working 'class-directory'
- HTML Semantics
- Learned what HTML is meant to do and not do
- Type of Elements
 - Block
 - Inline
- Accessibility
- SEO
- Elements, Attributes, and Values
- Parent > Child relationships
- URLs, linking items
- File naming



CSS: Image Optimization

- Last week we didn't cover Image Optimization
 - a. Download a LARGE Google Image
 - b. Open <https://tinypng.com/>
 - c. Drag & Drop or Select from filesystem
 - d. Compare Images
- Do note I have seen issues with this and shadows on .png files with terrible results

Image Optimization in my experience is a great way to cut a ton of weight on your site loading



Submit all your wireframes

steve_fuller@berkeley.edu

Wireframes Needed

- Media Page
- Merch Page
- Tour Dates Page
- Homepage
- About Page
- Discography Page



Designing Your Website

Don't over think this part we are not looking for award winning designs. I want to see what colors you are going with, see some images placed in, and bring some life to your wireframes

- Open Photoshop or Sketch
- Set canvas to 1440px wide
 - Height does not matter when setting up 1024px is a good starting point
- I like to set my working content to 1200px
 - I set guides at 120px and 1,320px
- For ease of designing make spacing of elements by units of 5px
- Grab Custom Fonts from [Google Fonts](#) only
- [Bulma UI Kit](#)
- Other Kits
 - [Bootstrap 3 UI Kit](#)
 - [14 Bootstrap 4 UI Kits](#)
 - [Free UI Kits](#)

CSS Helpful Resources

- [StackOverflow - CSS](#)
- [W3Schools - CSS](#)
- [Can I Use?](#)
- [CSS Cheat Sheet](#)





CSS: What is CSS?

- CSS stands for Cascading Style Sheets
- Where HTML defines your content's meaning CSS defines the appearance
- CSS can describe how HTML elements are displayed on
 - Screens
 - Paper
 - Other Media
- External stylesheets are stored in .css files
- CSS1 was released proposed in '94 and released in '96



CSS: Solving a Big Problem

- HTML was never intended for presentation
- HTML was created to **describe the content** of a web page
- HTML 3.2, released in '97, allowed for attributes to affect a web pages presentation
- With CSS1 being released it was able to create a “separation of concerns” between presentation and content meaning



CSS: Constructing a Style Rule

- *Selector* - identifies the element(s) you want to format
- *Property* - a property is always associated with a *Value*
- *Value* - is the allowable option(s) for a *Property*

```
p { color: red; }
```

- p - is the *selector*
- color - is the *property*
- red - is the *value*

- Selectors

- *
- all
- Element
- p,ul,li
- Class
- .
- ID
- #



CSS: Loading in Styles

- CSS can be brought in with various methods

- External Files
- Embedded `<style>` blocks
- Inline Styles

`<!doctype>`

`<html>`

`<head>`

`<title></title>`

`<link rel="stylesheet" type="text/css" href="/assets/stylesheets/styles.css" />`

`<style></style>`

`</head>`

`<body><div class="myBox">...</div></body>`

`</html>`

1. Open `/class-directory`
2. Within `/assets/stylesheets`
 - a. New File > `styles.css`
 - b. Add a Comment: `/* CSS Comment */`
3. Create `css-styles.html`
4. Add `<style>` tag in the head
5. Load in `styles.css`



CSS: Specificity

“Apart from Floats, the CSS Specificity is one of the most difficult concepts to grasp in Cascading Stylesheets” - Smashing Magazine

- Determine which CSS rule is applied by the browser
- Every selector has place in specificity hierarchy

5 Categories of specificity

1. Inline Styles
2. IDs
3. Classes
4. Attributes
5. Elements

CSS: Specificity

- Overriding styles can be done in a couple of ways
- When overriding styles things can become confusing very quickly so do this with caution



CSS: Specificity examples





CSS: Inheritance

Inheritance and the cascade are two fundamental concepts in CSS.

- Inheritance is associated with how the elements in the HTML markup inherit properties from their parent elements and pass them on to their children
- The cascade relates to CSS declarations being applied to a document, and how conflicting rules do or do not override each other

This is important because it keeps your code DRY (Don't Repeat Yourself) by cutting down on redundant code.

CSS: Inheritance Example





CSS: Block Elements

- **Inline Elements**
 - Respect Left & Right margins and padding but **not** top & bottom
 - Cannot have a width and height set
 - Allow other elements to sit to their left and right
- **Block Elements**
 - Respect all
 - Force a line break after the block element
- **Inline-block Elements**
 - Allow other elements to sit to their left and right
 - Respect top & bottom margins and padding
 - Respect height and width

[Background: the difference between div and span](#)

[W3schools Block-level Elements](#)

CSS: Block Example





CSS: Pseudo Classes

- Defines a special state of an element
- Style an element when you perform an action

selector: pseudo-class { property: value; }

[MDN web docs Pseudo-classes](#)

Pseudo Class Examples



Week 3: Homework



- Start Designing your Website
 - Finish Desktop Designs for:
 - Homepage
 - About
 - Discography
- Read Chapters
 - 10 & 11