

HTML + CSS

Objectives

- Make more HTML documents.
- Learn to properly use basic HTML tags.
- Implement basic CSS styling to HTML documents.

Recap

/

Class repo

- `git clone <URL>`
- `git pull`

My first web page

- Create a new repo on GitHub
- Copy URL
- `mkdir apps`
- `cd apps`
- `git clone <URL>`
- `cd <repo-name>`
- `touch index.html`
- Add HTML
- `git add -A`
- `git commit -m "First"`
- `git push`

HTML Syntax (Basic)

```
<h1>Hello World!</h1>
```

- Note
 - Opening and closing tags
 - Content

HTML Syntax (with Attribute)

```
<a href="http://www.google.com">Google</a>
```

- Note
 - Additional text in opening tag

HTML Syntax (with Self Closing Tag)

```

```

- Note
 - Absence of closing tag

Common Tags

- Headings:

- `<h1> </h1>` - Heading 1 (Largest Heading)
- `<h2> </h2>` - Heading 2 (Next Largest Heading)
- `<h3> </h3>` - Heading 3

- Containers:

- `<html> </html>` - Wraps the entire page
- `<head> </head>` - Wraps the header of the page
- `<body> </body>` - Wraps the main content
- `<div> </div>` - Logical Container
- `<p> </p>` - Wraps individual Paragraphs

- Others:

- `` (bold)
- `` (emphasis)
- `` (images)
- `<a href>` (links)
- `` (list items)
- `<title>` (title)
- `
` (line break)
- `<table>` (tables)
- `<!-- -->` (comments)

PAGE

HEADER

CONTENT

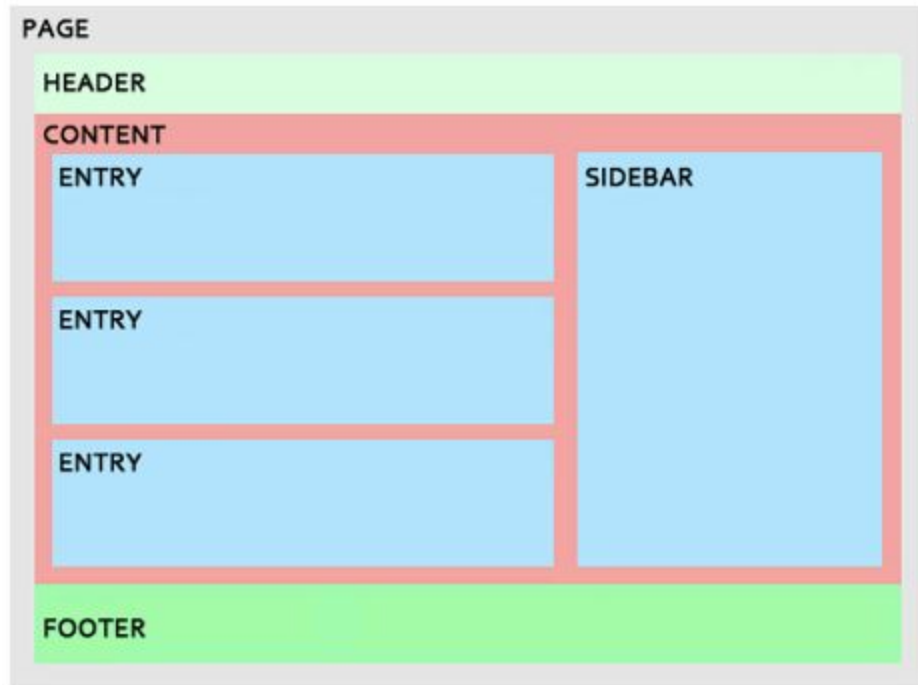
ENTRY

SIDEBAR

ENTRY

ENTRY

FOOTER



`<header>`

A container for introductory content or a set of navigational links.

`</header>`

<div>

A container used to group *visually*
related segments.

</div>

<section>

A container used to group *thematically*
related segments.

</section>

RTFM <http://www.w3schools.com/tags/>

HTML Attributes

https://www.w3schools.com/html/html_attributes.asp

Activity! Student Bio (20 min)

Create a student bio using HTML.

Add, commit, and push it to GitHub.

Student Bio

Your Name



Write a short paragraph or two about yourself, or use placeholder text from www.lipsum.com

Contact Info

- Email: someplace@gmail.com
- Github: [sampleName](#)
- Portfolio: [coming soon](#)

Review: Student Bio

Student Bio

Your Name



Write a short paragraph or two about yourself, or use placeholder text from www.lipsum.com

Contact Info

- Email: someplace@gmail.com
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- Portfolio: [coming soon](#)

Markdown

<https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet>

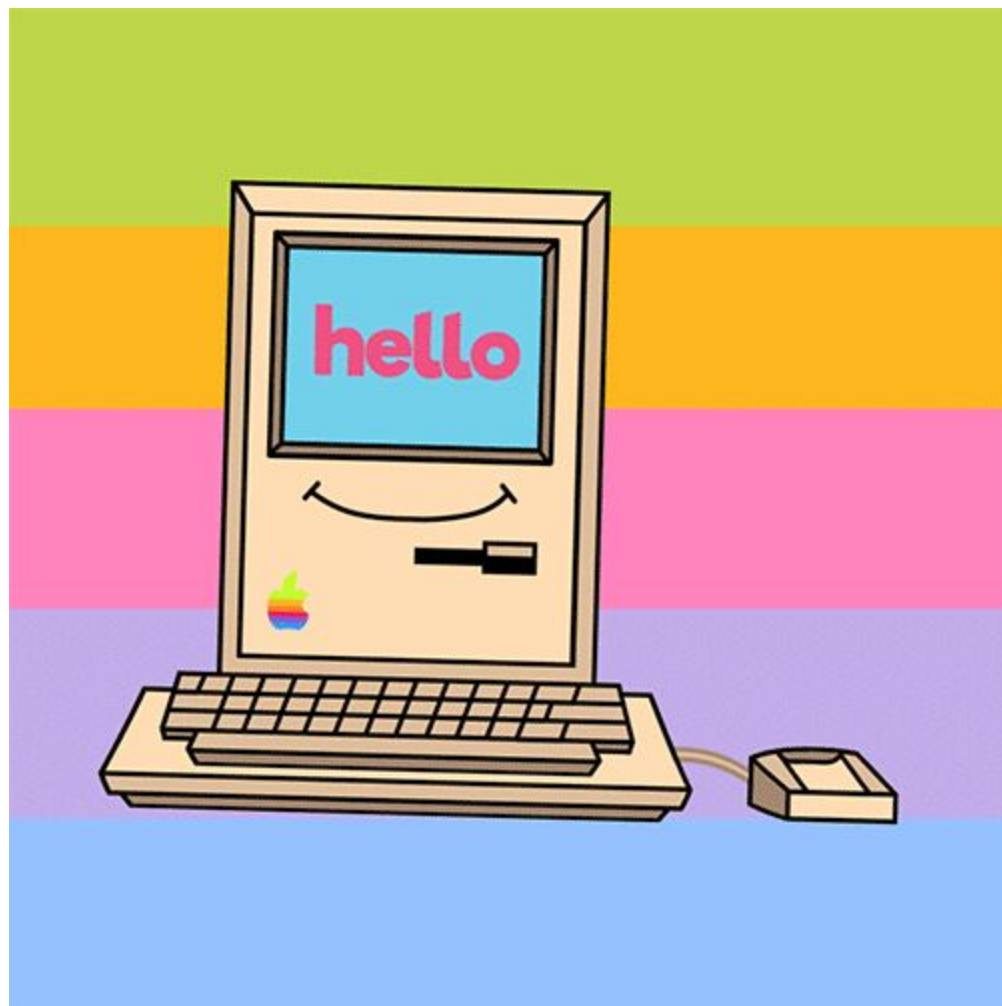
Cascading Style Sheets

HTML + CSS

- HTML
 - Content
- CSS
 - Appearance

HTML & CSS are the “languages of the web.” Together they define both the content and the aesthetics of a webpage – handling everything from the layouts, colors, fonts and content placement.



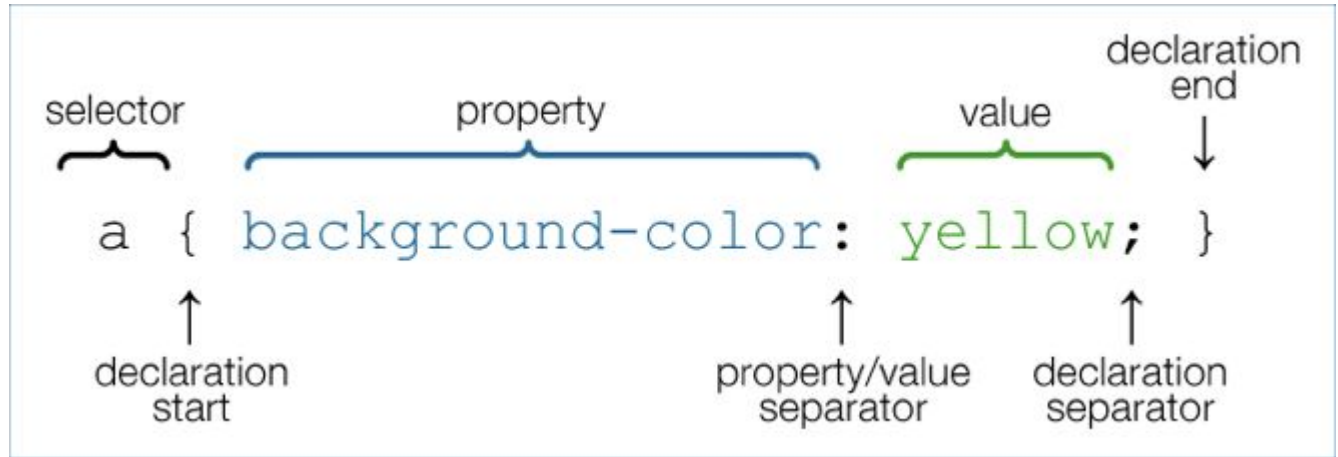


Demo: Basic CSS

See [05-BasicCSS/quick-example-internal-css.html](#)

CSS Syntax

- CSS works by hooking onto selectors added into HTML using classes and identifiers.
- Once hooked, we apply styles to those HTML elements using CSS.



CSS Attributes

- Font / Color:
 - color: Sets color of text.
 - font-size: Sets size of the font.
 - font-style: Sets italics.
 - font-weight: Sets bold.
- Alignment / Spacing:
 - padding (top/right/bottom/left): Adds space between element and its own border.
 - margin (top/right/bottom/left): Adds space between element and surrounding elements.
 - float: Forces elements to the sides, centers, or tops.
- Background:
 - background-color: sets background color.
 - background-image: sets background image.

id vs. class

- id
 - Uses # notation
 - #uniqueid
 - Used once for a unique element
 - Like the serial number on your iPhone
- class
 - Uses . notation
 - .classy
 - Can be applied to multiple elements
 - Like the barcode on the box containing your iPhone

HTML

```
<p class="bigBlue">Header</p>
```

CSS

```
.bigBlue  
  
{  
  
    font-size: 100px;  
  
    color: blue;  
  
}
```

Activity! CSS Bio Page (20 min)

See 06-HTML_CSS_Layout in the class repo for instructions

Student Bio

Your Name



Write a short paragraph or two about yourself, or use placeholder text from www.lipsum.com

Contact Info

- Email: someplace@gmail.com
- Github: [sampleName](#)
- Portfolio: [coming soon](#)

Review: CSS Bio Page

Netflix && Chill

<https://www.youtube.com/watch?v=kMBinXTCrXI&list=PLgJ8UgkiorCnMLsUevoQRxH8t9bt7ne14&index=2>

Paths

Demo: Relative File Paths

See [07-RelativePaths-Activity/Demo/html-bio-with-css.html](#)

- No style?
 - Why?

Relative file paths connect us with other files in our working directory.

`/Users/jarednielsen/FullStack-Lesson-Plans/01-Class-Content/01-html-git-css/01-Activities/07-RelativePaths-Activity/Demo/html-bio-with-css.html`

Always use relative file paths.

Activity! Relative File Paths (15 min)

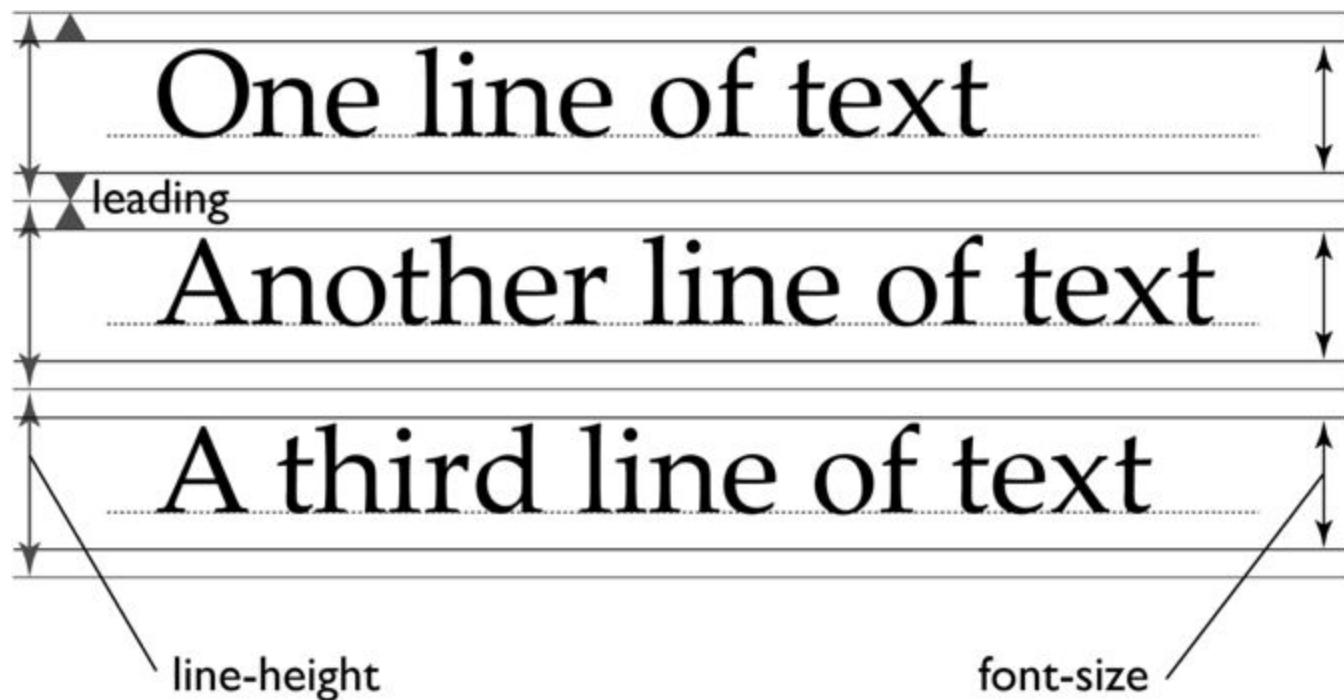
See 07-RelativePaths-Activity in the class repo for instructions

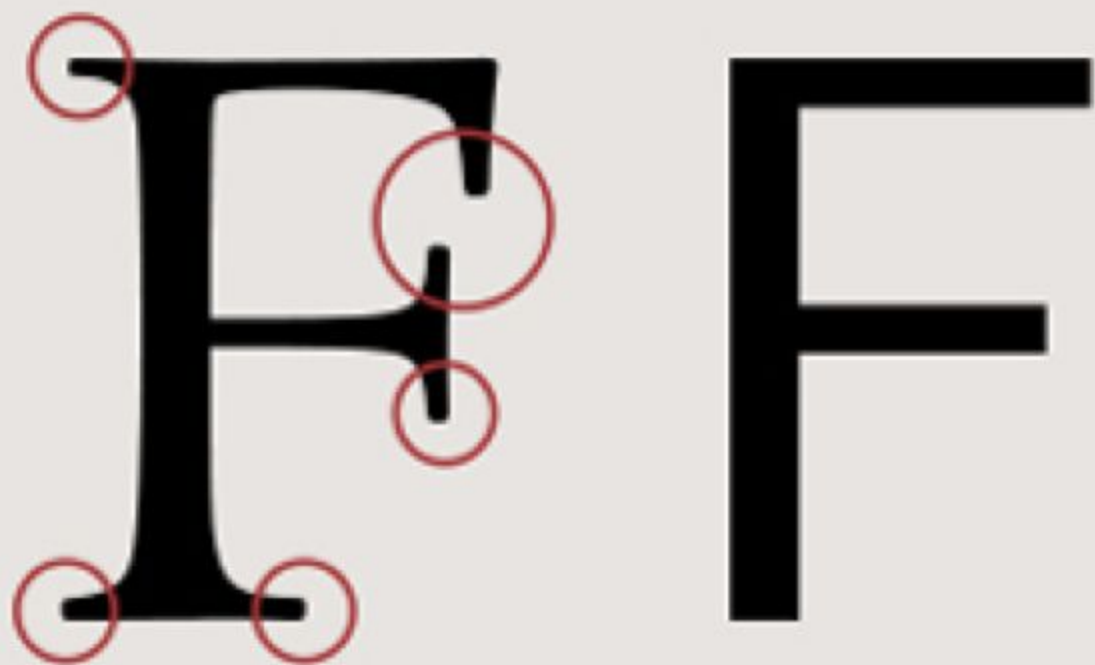
Review: Relative File Paths

Typography

Typography

- Line Height
 - Distance between lines of text on a page (Golden Ratio of 1.5x font).
- Font-Size
 - Actual size of lettering. Should be at least 16 px on modern pages.
- Line Length
 - Not a CSS property but rather a standard. Should be about 50-75 characters per line on a desktop .
- Letter Spacing
 - Spacing between individual letters—try to avoid cramping.
- Sans-Serif vs Serif
 - Sans-serif are fonts sans their serifs—no tails. They're easier to read online.





Activity! CSS Typography (10 min)

See 07-CSSTypography in the class repo for instructions

Review: CSS Typography (10 min)

Demo: Custom Fonts

<https://fonts.google.com/>

Activity! Custom Fonts (10 min)

See 08-GoogleFontDemo

Review: Custom Fonts