

How to Build a Website

Level: n00b

Workshop by Alexandra DeLucia

Goal: Barebones Portfolio Site

Workshop Requirements

- A web browser
 - Just not Internet Explorer. Please.
- A text editor
 - [Notepad++](#) (Windows only, sorry)
 - [Atom](#)
 - [Sublime](#)

Workshop Scope

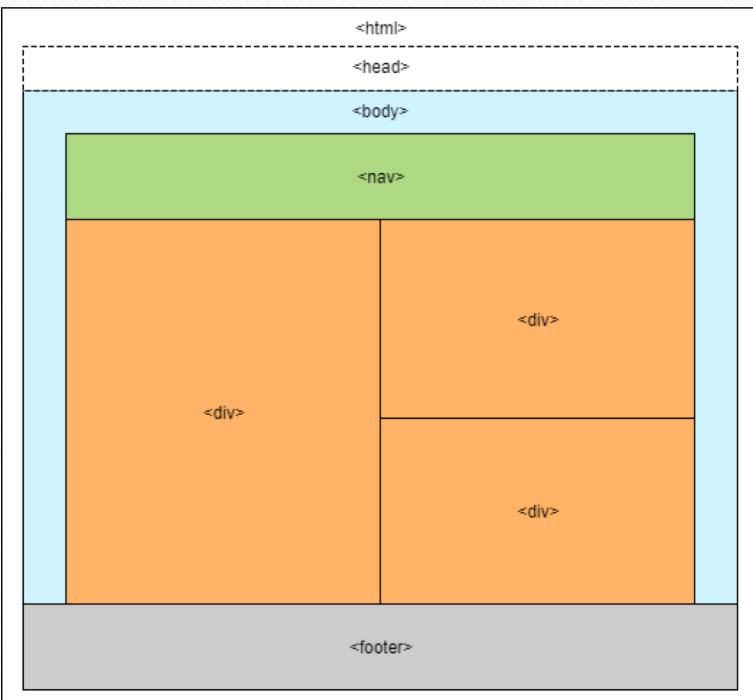
Covered

- HTML5
- CSS3
- Bootstrap

Not Covered (See [Resources](#) and [Next Steps](#))

- Server-side scripting (Node.js, PHP, etc)
- Web hosting
- Getting a domain

HTML Structure Tags



Use open <> and closing </> tags to build an HTML structure. Important tags:

- <html>/<html>
- <head>/<head>
- <body>/<body>
-
- <h1>...<h6>
- <div>/<div>
- <p>/<p>
- <a>/<a>

Full tag list here: [W3 Schools](#)

HTML File Example

```
<!DOCTYPE html>
<html>
  <head>
    <title></title>
  </head>
  <body>
    <h1></h1>
    <div>
    </div>
  </body>
</html>
```

HTML files have a .html
extension:
file.html

First Webpage: Head

1. Open the file in your browser (refreshing the file after each step)
2. Open the **index.html** in your text editor
 - Note: you will have to use “open with”
3. Fill in the metadata and title tags in the head
 - Add a description, “example web page” in quotes next to **content=**
 - Add a title inbetween the **<title>** tags, like **<title>My Portfolio</title>**.
Note: do not use quotes
 - Add a favicon
 - **<link rel="shortcut icon" href="media/favicon.ico" />**

First Webpage: Body

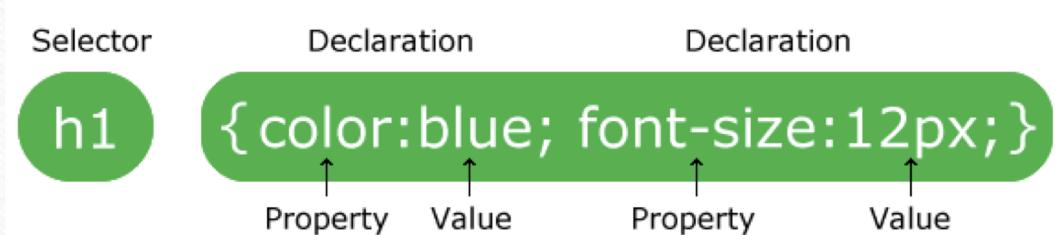
1. Add a heading for About Me
 - <h1>About Me</h1>
 - Note: the number on the tag corresponds to the size of the text, with 1 as largest and 6 as smallest
2. Add an image of yourself (or use `media/portrait.jpg`)
 -
3. Add a bio under About Me
 - <p>some text</p>

First Webpage: Navigation

1. Locate the `<nav></nav>` section under `<body>`
2. Add a link to the `nav` section for xckd
 - `External Link`
3. Add a link to the `nav` section to download `media/answer_to_life.txt`
 - `Local Link`
4. Copy the xckd link and set it to open in a new tab
 - `New Tab Link`

Cascading Style Sheet (CSS)

- A separate file that is linked to the HTML file
- Separates the design from the content
- Allows a style to be applied easily to multiple tags
- More information: [W3 CSS](#)



Beautification: Attempt 1

1. Open the stylesheet `css/styles.css`
2. Link the stylesheet to `index.html` in `head`
 - `<link rel="stylesheet" href="css/styles.css">`
3. Change the background color of `body` ([reference guide](#), [color codes](#))
 - `background-color: lightblue;`
4. Give your About Me image an `id` and resize it
 - ``
 - `#about-img {width: 200px;}`

CSS in HTML

Can use CSS in an HTML element tag

1. Copy the portrait image and remove the **id**
2. Apply a style to it in the HTML file
 - Use the **style** attribute
 - ``

Hacking a Template

1. Download a basic free template [here](#)
2. Open the template and explore
3. Create a new stylesheet `my-styles.css` and copy the contents of `resume.css`
4. Change the navigation (`.bg-primary`) and background color (`section.resume-section`)
5. Fill in your personal information

Next Steps

- Hosting
 - [Github Pages](#) (recommended for beginner)
 - [Amazon Web Services](#)
 - Helpful tutorial for a static website [here](#)
- Domain Name
 - [Google Domains](#)
 - [Name Cheap](#)

Resources

- Frameworks
 - [Jekyll](#)
- Design
 - [Materialize](#)
 - [Bootstrap](#)
 - [Skeleton](#)
- Server Side ([link](#))
 - PHP
 - SQL
 - Node.js