

<Intro to Web Development/>



Workshop Goals

1. Set up a text editor and project folder
2. Learn basic HTML&CSS
3. Create some simple webpage elements
4. Host a webpage on Github Pages
5. Walk away with **confidence** to build your own website!

Building Your First Website

1. Create a folder to save your project in a folder named `username.github.io`.
2. Create a text file and save it as `"index.html"`

Basic HTML Template

```
<!DOCTYPE html>
<html>
<head>
  <title>My First Website!</title>
</head>
<body>

  <h1>My First Heading</h1>
  <p>My first paragraph.</p>

</body>
</html>
```

Basic HTML Tags

<a> tag

```
<a href="http://northwestern.edu" target="blank" download>HTML Link</a>
```

 tag

```

```

Note on images: If your site has a lot of images, store them in a subdirectory named “img”

src attribute

```

```

Basic HTML Tags Cont.

 tag

`<h2>An unordered HTML list</h2>`

```
<ul>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ul>
```

- Coffee
- Tea
- Milk

 tag

`<h2>An ordered HTML list</h2>`

```
<ol>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ol>
```

1. Coffee
2. Tea
3. Milk

HTML: More Tags

<footer>

footer

bold

<i>

italics

<!--...-->

commenting out code

<embed>

embed something

<caption>

caption

(div)isions

<div> tag

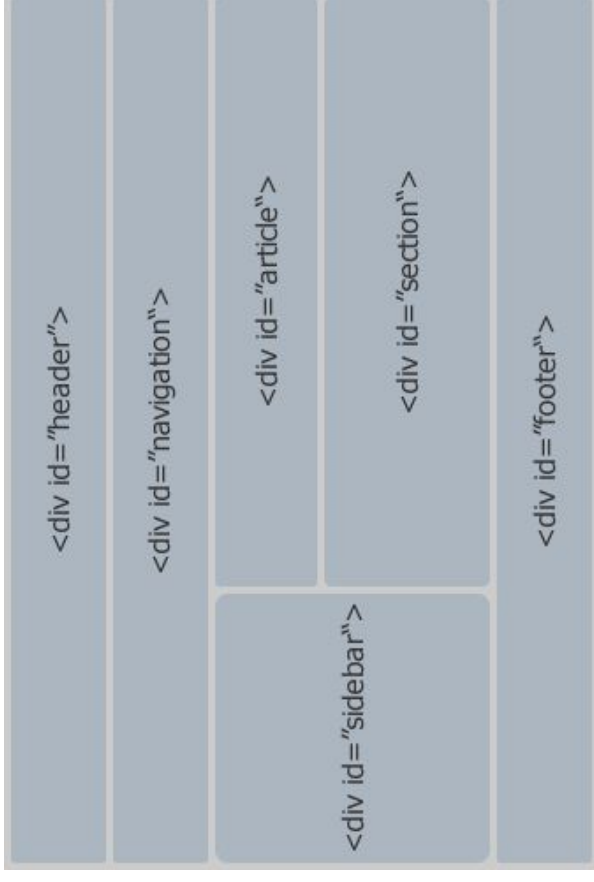
```
<div>  
<p>Insert any type of content here.</p>  
</div>
```

id attribute

```
<div id="#">...</div>
```

class attribute

```
<div class="#">...</div>
```



Linking Pages

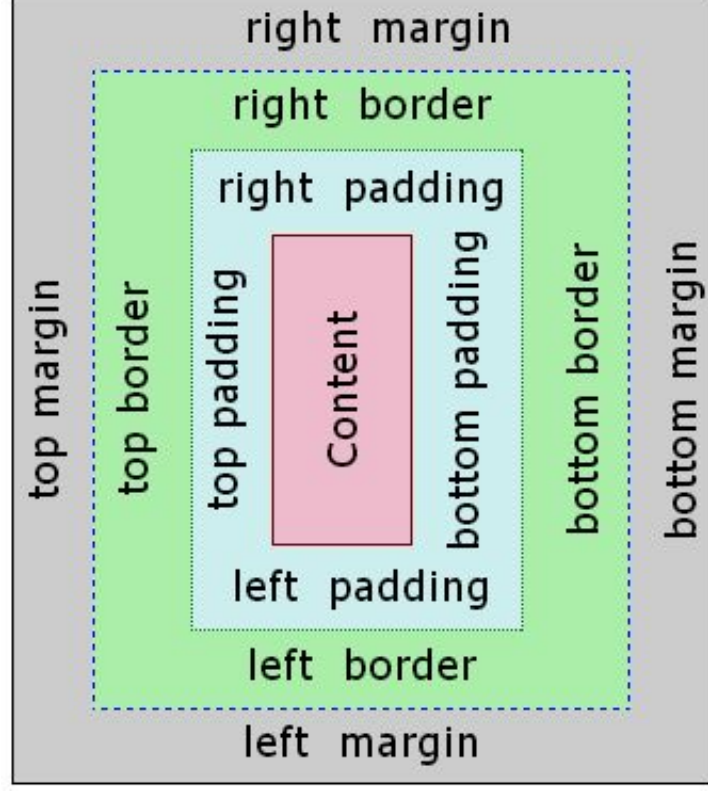
link your stylesheet

```
<head>  
<link rel="stylesheet" type="text/css" href="style.css">  
</head>
```

links within an html file

```
<ul>  
<li><a href="#home">Home</a></li>  
<li><a href="#news">News</a></li>  
<li><a href="#contact">Contact</a></li>  
<li><a href="#about">About</a></li>  
</ul>
```

CSS: Box Model



CSS: Syntax

Examples of selectors: p, h2,
.class, #id, a, body, i

Examples of properties:
background-color, color,
font-family, text-align,
margin-top, float

```
selector {  
    property: value;  
    property: value;  
}
```

Let's build some stuff...

<https://codepen.io/lszhang/pen/BweGBK>

Hosting Your Site

1. Make a new repository on Github titled ***yourusername.github.io***
2. Push your index.html and main.css to that folder
3. Visit *yourusername.github.io* and see your site!

Resources to learn more

<http://codrops.com/>: web development tutorials, ideas, blueprints

<http://niceportfol.io/>: personal website inspirations

<http://codepen.io/>: shared projects and source codes

<http://nc.me/>: free **.me** domain names to use with GitHub pages (students only)