

In partnership with Innovate Kingston

About the Instructor - Kyla Lutz

Third year Computer Programmer Analyst student at St. Lawrence

Currently working for the Office of Government and Consumer Services in a

program developer position

Enjoys programming, history, and crochet

Has a little pug named Yoda!



Setting Up

- Download a Text Editor
 - o E.g. Sublime Text 3, Atom, Notepad++
- Make sure you have a compatible Internet Browser
 - E.g. Google Chrome, Firefox, Safari
- In the Text Editor, make two files:
 - o index.html
 - o main.css

What is HTML?

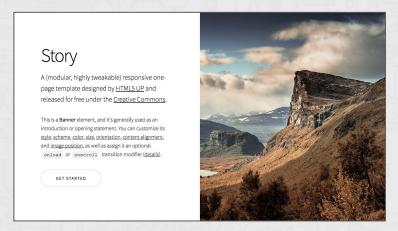
- HTML = Hypertext Markup Language
- Standard for developing websites
- Describes the structure of web pages using markup
- Uses elements represented as tags
- The browser translates the code into a viewable form shown as a web page

What is CSS?

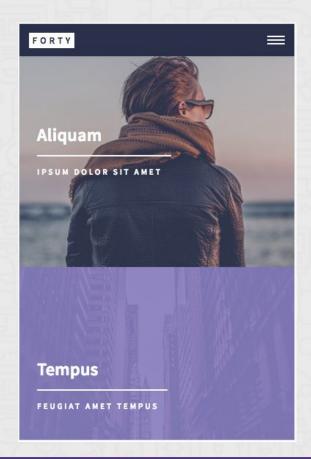
- CSS = Cascading Style Sheets
- Standard for designing websites
- Describes how HTML elements are to be displayed on screen

```
body {
       background: #FDD761;
       font-family: 'Lucida Sans Unicode', 'Arial', serif;
       color: white;
     h1, h3, h4, header .btn {
       font-weight: 700;
     h1 {
12
       margin: 100px 0 20px;
       text-transform: uppercase;
       font-size: 2.6rem;
```

Examples of HTML and CSS

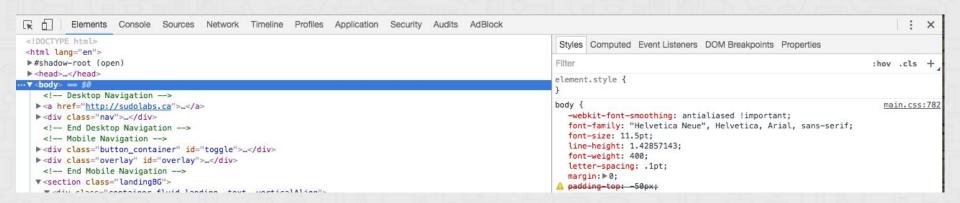






HTML and CSS in Action

- Open any website on your Browser
- Right click on the site and click "Inspect Element"
- You can see both the HTML and the CSS associated with each element!



Let's Get Started!

HTML

HTML: Important Tags

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 </head>
5 <body>
6 </body>
7 </html>
```

- <!DOCTYPE html> shows that this document is written in HTML5
- <html> describes the HTML document
- <head> provides information about the document. It's contents are not visible on the webpage.
- <body> describes all visible page content

HTML: Basic Tags

```
<!DOCTYPE html>
    <html>
    <head>
    </head>
    <body>
        <h1>Hello from H1</h1>
        <h2>Hello from H2</h2>
        <h3>Hello from H3</h3>
        <h4>Hello from H4</h4>
        <h5>Hello from H5</h5>
        <h6>Hello from H6</h6>
11
12
        Hello from P
    </body>
    </html>
```

Hello from H1

Hello from H2

Hello from H3

Hello from H4

Hello from H5

Hello from H6

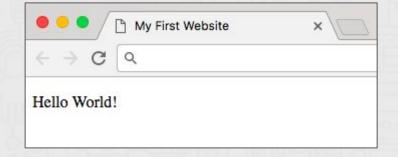
Hello from P

Try it Yourself!

- Try adding multiple tags and add some content!
- Experiment with heading tags h1-h6, note variations in size

HTML: Hidden Tags

```
<!DOCTYPE html>
    <html>
    <head>
        <title>My First Website</title>
    </head>
    <body>
        <!-- This text won't appear! -->
        Hello World!
        <!-- Neither will this -->
    </body>
10
    </html>
```



HTML: Links, Lists, and Images

```
<!DOCTYPE html>
<html>
<head>
   <title>My First Website</title>
</head>
<body>
   <a href="https://sudolabs.ca">Sudo's Website</a>
   <img src="sudologo.png" alt="Sudo's Logo">
   HTML and CSS are:
          Fun
          Easy to Learn
          For making pretty websites
       </body>
</html>
```



Try it Yourself!

- Add both an ordered list and an unordered list to your webpage
 - Bonus: Try creating a list within a list
- Add some links on your page to Google, Sudo's website, etc
- Add an image to your website
 - Bonus: Can you make your image link to a website?

HTML Jeopardy

CSS

CSS: Basic Styles

```
body {
background-color: blue;

}

p {
font-size: 24pt;
color: yellow;
}
```

Hello World!

Google Fonts

https://www.google.com/fonts

```
<!DOCTYPE html>
    <html>
     <head>
        <title>My First Website</title>
        <link rel="stylesheet" href="main.css">
        <link href="https://fonts.googleapis.com/</pre>
        css?family=Roboto" rel="stylesheet">
     </head>
     <body>
        Hello World!
11
     </body>
    </html>
```

```
body {
background-color: lightblue;
font-family: 'Roboto', sans-serif;
}

font-family: 'Roboto', sans-serif;

font-family: 'Roboto', sans-serif;

font-family: 'Roboto', sans-serif;

color: red;

font-size: 24pt;
color: red;
}
```

Hello World!

CSS: IDs, Classes, and Divs

```
body {
  background-color: lightblue;
  color: red:
#hello {
  background-color: pink;
.blue-text {
  color: blue;
```

Hello World!

This text is blue

This text is not blue

CSS: Width and Height

```
7 <body>
8 <div id="hello">
9 Hello World!
10 </div>
```

```
body {
       background-color: lightblue;
     div {
       border: solid 1px black;
     #hello {
       background-color: pink;
11
       width: 100px;
12
       height: 250px;
13
```

Hello World!

This text is blue

This text is not blue

CSS: Padding

```
7 <body>
8 <div id="hello">
9 Hello World!
10 </div>
```

```
body {
       background-color: lightblue;
     div {
       border: solid 1px black;
     #hello {
       background-color: pink;
10
11
       padding: 10px;
12
```

Hello World!

This text is blue

This text is not blue

CSS: Margins

```
7 <body>
8 <div id="hello">
9 Hello World!
10 </div>
```

```
body {
       background-color: lightblue;
     div {
       border: solid 1px black;
     #hello {
       background-color: pink;
11
       margin: 10px;
12
```

Hello World!

This text is blue

This text is not blue

Try it yourself!

- Use an ID to make a specific paragraph red (or any color of your choosing)
 - Bonus: you can use hexadecimal values too! Google "colour picker" and copy and paste the hex value
- Increase the font size of a specific paragraph
- Assign a background color to another paragraph
- Resize an image using width and height

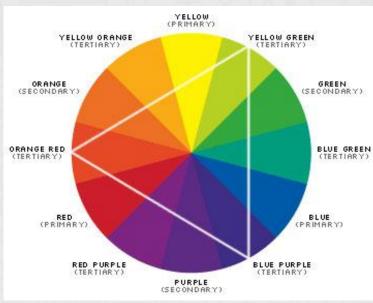
HTML and CSS: General Style Tips

I am sans. I am serif.



Hex: # 7F00FF
Red: 127
Green: 0
Blue: 255





CSS Jeopardy

Want to Learn More?

Check out:

https://www.codecademy.com/learn/web

https://www.w3schools.com/

Or email us at workshops@sudolabs.ca

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Survey Link: https://goo.gl/forms/S8GVLf5FeW1WPBmu2