



Learn to code!

Lesson 1: An introduction to the web, HTML & CSS.

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- 1 How does the web work?
- 2 What is HTML?
- 3 What is CSS?
- 4 How do we blend our HTML & CSS?
- 5 What tools do we need?
- 6 Lets build a sexy page!

1 How does the web work?

Client/Server



“The cloud” is really just a term for how client computers talk to servers (and vice versa).

Key things to note

- 1 Client/Server architecture was developed by Xerox PARC in the 70s.
- 2 It's used for email, websites, networked devices (basically everything these days).
- 3 All devices have an address!
- 4 Web pages are linked with **hyperlinks**.

2 What is HTML?

HTML powers the web!

- 1 HTML 5 is the newest web standard for building websites.
- 2 HTML is ubiquitous – i.e. it works on all kinds of devices; desktop, mobile, etc.
- 3 HTML is the language we write in to create websites, and browsers interpret that code to output something to display!



What does that look like?

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Title of the document</title>
</head>

<body>
Content of the document.....
</body>

</html>
```


<h1>This is a title</h1>

<p>Bacon ipsum dolor sit amet doner corned beef ea, kevin nostrud enim bresaola ut ut. Velit consectetur pig commodo anim. Magna ground round hamburger culpa. Ham hock duis nulla, magna beef voluptate tongue proident tempor jerky. Ground round kielbasa in ribeye adipisicing brisket tongue esse exercitation biltong.</p>

```
<ul>
  <li>This</li>
  <li>is</li>
  <li>a</li>
  <li>list</li>
</ul>
```

Basic inputs

- `<input type="text">`
- `<input type="checkbox">`
- `<input type="submit">`
- `<input type="file">`
- `<input type="radio">`
- `<input type="password">`

Separate

Skin

From

Bones

3 What is CSS?

CSS makes the web look good

- 1 CSS controls the style & layout of your pages
- 2 CSS3 is the latest standard in CSS!
- 3 CSS helps us separate the document content (HTML) from the document presentation.
- 4 We use **selectors** to associate some piece of styling to our HTML – to style our page!



What does CSS look like?

```
div
{
    width:100px;
    height:75px;
    background-color:red;
    border:1px solid black;
}
```

Separate

Structure

From

Skin

Structure versus *Skin*

- Structure:

```
.container { margin: 1em; padding: 1px;  
width: auto; }
```

- Skin:

```
.my_div { color: red; background-  
image:url(image.jpg); }
```


4 How do we blend our HTML + CSS?

Good web design checklist

- ☒ Make sure our HTML & CSS is correct.
- ☒ Make sure our HTML structure is good.
- ☒ Make sure our HTML calls CSS classes.
- ☒ Make sure our CSS classes define what structure & style we want.
- ☒ Have fun with it!

How to make our .html file see our .css file

- We have two files in basic web design.
 - .html defines our HTML structure code.
 - .css defines our style code.
- In our HTML **<head>** tag we define where our CSS is:
`<link rel="stylesheet" type="text/css" href="style.css">`

Change our HTML body color in CSS

```
body {  
    background-color: black;  
}
```

Change a HTML element with CSS

- Rule:

```
Selector { attribute: value; }
```

- Example:

```
<h1> This is a title </h1>
```

```
H1 { font-family: "Helvetica"; color: red; }
```

5 What tools do we need?

Go get tools!

- A computer
- A text editor that can parse code:
<http://www.sublimetext.com/2>
- A browser: <http://chrome.google.com>

(anyone using internet explorer is fired)

6 Lets build a sexy page!

The basics: type this into your text editor

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
  </head>
```

```
  <body>
```

```
  </body>
```

```
</html>
```

Now save this as index.html and open it in Chrome!

Add a title

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>This is my page</title>
```

```
  </head>
```

```
  <body>
```

```
  </body>
```

```
</html>
```

Tell us about yourself

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>This is my page</title>
```

```
  </head>
```

```
  <body>
```

```
    <h1>Your Name</h1>
```

```
    <h2>About me</h2>
```

```
    <p>Some waffle about me!</p>
```

```
  </body>
```

```
</html>
```

Show us a pic of yourself!

```
<!DOCTYPE html>

<html>

  <head>

    <title>This is my page</title>

  </head>

  <body>

    <h1>Your Name</h1>

    <h2>About me</h2>

    <p>Some waffle about me!</p>

    <p>I look like this: <br>

    </p>

  </body>

</html>
```

Add a list of hobbies

```
<ul>
```

```
  <li> First hobby</li>
```

```
  <li> Second hobby</li>
```

```
</ul>
```

Add a link to HubSpot!

```
<a href="http://www.hubspot.com">HubSpot!</a>
```

Create a CSS file

- Create style.css in a new text editor window.
- Type the following:

```
Body {  
  
    background-color: #000000;  
  
    font-family: sans-serif;  
  
    font-size: 20px;  
  
    color: #ffffff;  
  
}
```

Add some structure to our body!

Width: 80%;

Margin: 0 auto;

Make our headings look different

```
H1, h2 {  
    font-family: "Georgia";  
    font-weight: 300;  
    color: #404040;  
}
```

Reveal the CSS file to our index.html!

- Put the following code into our <head> tag:

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

7 Homework

This softens
the blow of
homework



Yeah... there's homework

- Create another page and create some new content in there.
- Link `index.html` to the new page!
- Play with CSS to change some of the parameters that we set today.

Extra resources

- CodeSchool.com – Dharmesh said we can expense it!
- CodeAcademy.com
- W3Schools.com – they regulate this stuff!
- <https://github.com/projectkevin/HubSpot-Learn-HTML-Lesson-1>- The code from today's lesson

QUESTIONS?



THANK YOU