



BASIC WEBSITE DESIGN WITH HTML

HYPertext Markup Language & Cascading Style Sheets

OUTLINE

I. HTML and It's Origins

- a. What is HTML?
- b. What are it's uses?

II. Writing HTML

- a. Download editor
- b. Writing “hello world”
- c. Saving the file

III. More HTML

- a. Text insert
- b. Link insert and Video embed
- c. image insert and others
- d. divs

IV. CSS

- a. linking HTML to CSS
- b. CSS Syntax

HTML

Tim Berners-Lee

- * HyperText Markup Language
- * Markup Language (not a programming language)
- * Used to create web pages along with app interfaces
- * First created by Tim Berners-Lee



Getting Started: Code Editors and Installation

- *Sublime - free
- *Download Brackets - a free code editor which works just as well as Sublime
- *Use Notepad
- *TextWrangler

LINKS FOR TEXT EDITORS

<http://brackets.io/>

<https://www.sublimetext.com/>

<http://www.barebones.com/products/textwrangler/download.html>

What to include and how to Save

- **!DOCTYPE html**
This tells the computer that you are writing HTML
- **Beginning Tags**
- **End Tags**
- **Save with a “.html”**

*For instance,
“helloworld.html”*

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

CODE

```
1  <!DOCTYPE html>
2  ▼ <head>
3      <!--the author of this is Michaela Poblete-->
4  <title>This is my title</title>
5  </head>
6  ▼ <body>
7      <h1>This is bigger than Hello World</h1>
8      <h2>This is smaller.</h2>
9      <h3>Getting smaller</h3>
10     <p>Hello World.</p>
11     
12     <br>
13     <p><a href="https://www.amazon.com/ref=ap_frn_logo">Click here!
</a></p>
14     <br>
15     <a href="http://www.in-n-out.com/"></a>
16
17
18     </body>
19     </html>
```

for reference:

- * **** - This is the tag to create a link. In place of the “...”, insert the link of the webpage you want to link to.
- * **<!-- -...- -->** - This is a comment. You can put anything in place of the “...”. The computer will ignore it.

This is bigger than Hello World

This is smaller.

Getting smaller



UCDAVIS AGGIES

Hello World.

[Click here!](#)



RESULT

```
1  <!DOCTYPE html>
2  ▼ <head>
3  <title>This is all about forms</title>
4  <meta charset="UTF-8">
5  </head>
6  ▼ <body>
7  ▼ <form>
8      <label for="name">Name</label>
9      <input type="text" placeholder="Enter Name">
10 ▼     <p>email
11     <input type="email" placeholder="Enter Email">
12     </p>
13 ▼     <p>password
14     <input type="password">
15     </p>
16     <input type="file">
17 ▼     <p>
18     <input type="submit">
19     </p>
20
21 ▼     <p>Dog
22     <input type="radio">
23     </p>
24     <p>cat
25     <input type="radio"
26     </p>
27 </form>
28
29
30
31
32 </body>
33 </html>
```

More features (forms)

Name Michaela

email Enter Email

password ······

Choose File No file chosen

Submit

Dog

cat

RESULT

Video Embed

1. Go on Youtube/Vimeo
(whichever video website)
2. Choose a video
3. Click “Share”
4. Click “Embed”
5. Copy and paste the link
below “Embed” to your
html file.



A screenshot of the YouTube "Embed" sharing options menu. It shows the video title "One of a Kind: HERE" again. Below it are the channel logo for UC Davis, a "Subscribe" button with 16,407 subscribers, and view statistics: 48,601 views. There are also "Add to" and "Share" buttons. At the bottom, there are "Share", "Embed" (which is selected and highlighted in red), and "Email" buttons. A code snippet for embedding the video is shown in a box: <iframe width="560" height="315" src="https://www.youtube.com/embed/PAwB_t_IM7U" frameborder="0"></iframe>. A "SHOW MORE" link is at the bottom right.

Jake

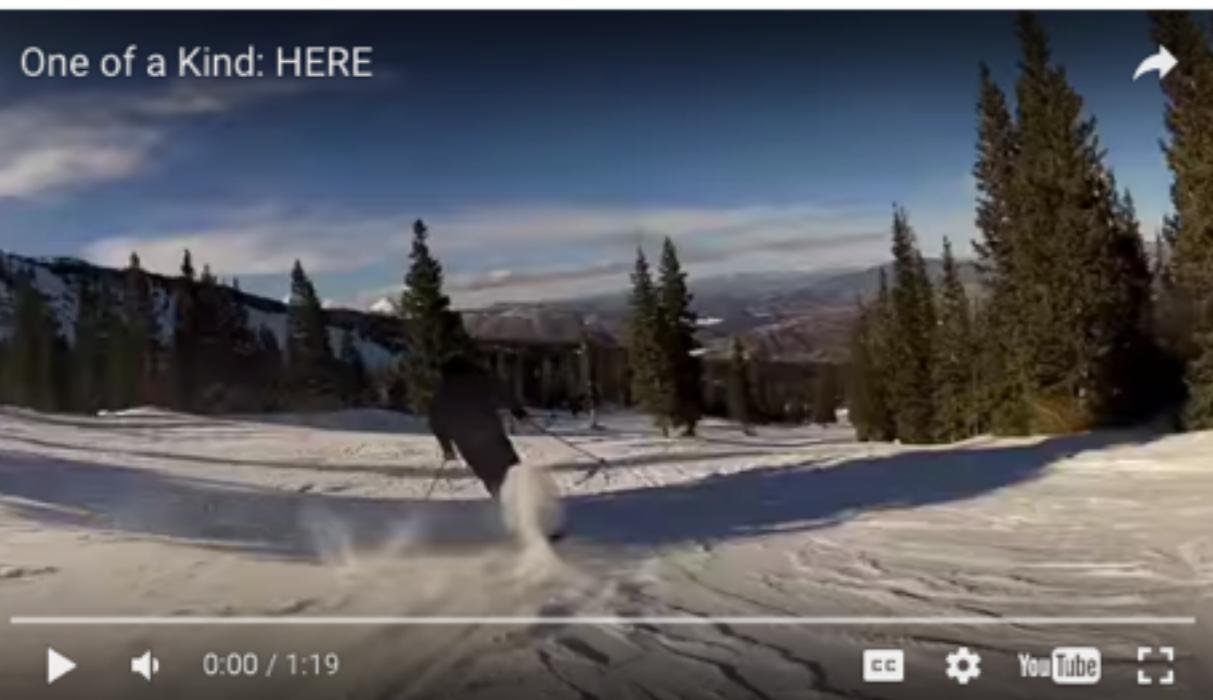
Dorian

Bruno

Sirius

- *Michaela*
- *Azeba*
- *Chris*

1. Scott
2. Erick
3. Kimmy



RESULT

css

Cascading Style Sheets

The Design of A Webpage

Palawan, Philippines

Lorem ipsum dolor sit amet, quam enim amet duis nisl, massa elit cursus nec scelerisque massa nibh, mi eu mauris, sed etiam, mollis purus. Molestie nulla ut, amet amet. Fringilla mattis, a quam rutrum ac vulputate, quo libero mus ut. Ut pellentesque, arcu dolor sed suspendisse massa iaculis enim. Suspendisse et, mi egestas morbi, eu mattis dolor nulla, quis placerat wisi vel pellentesque integer, mauris suspendisse consectetur quis erat donec. Tincidunt litora quisque mollis consectetur tellus vel, risus tristique sapien et hendrerit, orci eros pellentesque suscipit et. In nulla, et sed proin lectus urna at. Viverra blandit wisi.

Coron, Palawan- The best place on Earth! FROM THE AIR



WITHOUT CSS

Palawan, Philippines

Lorem ipsum dolor sit amet, quam enim amet duis nisl, massa elit cursus nec scelerisque massa nibh, mi eu mauris, sed etiam, mollis purus. Molestie nulla ut, amet amet. Fringilla mattis, a quam rutrum ac vulputate, quo libero mus ut. Ut pellentesque, arcu dolor sed suspendisse massa iaculis enim. Suspendisse et, mi egestas morbi, eu mattis dolor nulla, quis placerat wisi vel pellentesque integer, mauris suspendisse consectetur quis erat donec. Tincidunt litora quisque mollis consectetur tellus vel, risus tristique sapien et hendrerit, orci eros pellentesque suscipit et. In nulla, et sed proin lectus urna at. Viverra blandit wisi.

Coron, Palawan- The best place on Earth! FROM THE AIR

WITH CSS

```
1 ▼ body {
2   background-image: url(http://planetphilippines.com/wp-content/uploads/2011/01/Palawan-1.jpg);
3   background-size: cover;
4   background-position: center;
5   background-attachment: fixed;
6   background-repeat: no-repeat;
7
8 }
9
10 ▼ h1 {
11   font-family: 'Satisfy', cursive;
12   color: whitesmoke;
13   text-align: center;
14   font-size: 56px;
15
16 }
17 ▼ #summary {
18   height: 300px;
19   margin: 100px;
20   width: 600px;
21   padding: 30px;
22   background-color: rgba(10,10,10,0.30);
23   border-radius: 10px;
24   color: whitesmoke;
25 }
```

CSS SYNTAX

```
1
2 selector
3
4
5
6 ▼ p {
7   background-color: red;
8   font-family: cursive;
9   color: blue;
10 }
11
12
13
14
```

value

property

The diagram illustrates the components of a CSS rule. It features a vertical list of code lines from 1 to 14. A blue arrow labeled 'selector' points to the opening brace '{' at line 6. Another blue arrow labeled 'value' points to the word 'red' at line 7. A third blue arrow labeled 'property' points to the word 'color' at line 9.

SPECIFIC TERMS IN CSS

Specific Terms in CSS

- * **Selector** - This is the element you choose to modify
- * **Property** - This is the characteristic of that particular element you will be modifying
- * **Value** - This is the extent of change, or how you will change the characteristic

Frequently Used list of Properties

- **background-color**
- **font-size**
- **font-family**
- **font-weight**
- **color**
- **text-align**
- **background-image: url('...')**
- **height**
- **width**
- **padding**
- **margin**
- **display**

Link to CSS property list

<http://www.w3schools.com/cssref/>

LINKING TO HTML TO CSS

```
1 <!DOCTYPE html>
2 ▼ <head>
3     <!--the author of this is Michaela Poblete-->
4     <link rel="stylesheet" type="text/css" href="style.css">
5     <title>This is my title</title>
6 </head>
```

- BE SURE TO SAVE THE FILE WITH A “.CSS” EXTENSION.
- COPY THE LINK TAG PICTURED ABOVE WORD FOR WORD.
ITS ALWAYS A CONSTANT. THIS TIME, CHANGE THE TITLE IN
HREF=“...CSS” TO WHATEVER YOU NAMED YOUR FILE.
FOR INSTANCE “HELLO.CSS”

```
1  <!DOCTYPE html>
2  ▼ <head>
3  <title>Boxes</title>
4  <link rel="stylesheet" href="div.css" type="text/css"/>
5  </head>
6  ▼ <body>
7
8  ▼ <div class="coworkers">
9  <p>Jake</p>
10 </div>
11
12 ▼ <div>
13 <p>Dorian</p>
14 </div>
15
16 ▼ <div>
17 <p>Bruno</p>
18 </div>
19
20 ▼   <ul>
21     <li>Michaela</li>
22     <li>Azeba</li>
23     <li>Chris</li>
24   </ul>
25 ▼   <ol>
26     <li>Scott</li>
27     <li>Erick</li>
28     <li>Kimmy</li>
29   </ol>
30
31 </body>
32 </html>
```

HTML

CSS

```
1 ▼ div {  
2   height: 100px;  
3   width: 100px;  
4   background-color: red;  
5   display: inline-block;  
6   margin: 30px;  
7   text-align: center;  
8   padding-top: 20px;  
9   font-family: Verdana;  
10  font-weight: bold;  
11 }  
12  
13 ▼ ul {  
14   font-family: cursive;  
15 }  
16  
17 |
```

Jake

Dorian

Bruno

Sirius

- *Michaela*
- *Azeba*
- *Chris*

1. Scott
2. Erick
3. Kimmy

OUTPUT

DIV

DIV

MONTHLY RESOLUTIONS

Goals for the upcoming 30 days

Home

Archives

About Me

ETRO

DIV

DIV

DIVS

The red box is a div



Palawan, Philippines

Lorem ipsum dolor sit amet, quam enim amet dui nisl, massa elit cursus nec scelerisque massa nibh, mi eu mauris, sed etiam, mollis purus. Molestie nulla ut, amet amet. Fringilla mattis, a quam rutrum ac vulputate, quo libero mus ut. Ut pellentesque, arcu dolor sed suspendisse massa iaculis enim. Suspendisse et, mi egestas morbi, eu mattis dolor nulla, quis placerat wisi vel pellentesque integer, mauris suspendisse consectetur quis erat donec. Tincidunt litora quisque mollis consectetur tellus vel, risus tristique sapien et hendrerit, orci eros pellentesque suscipit et. In nulla, et sed proin lectus urna at. Viverra blandit wisi.



Jake

Dorian

Bruno

Sirius

- *Michaela*
 - *Azeba*
 - *Chris*
1. Scott
 2. Erick
 3. Kimmy

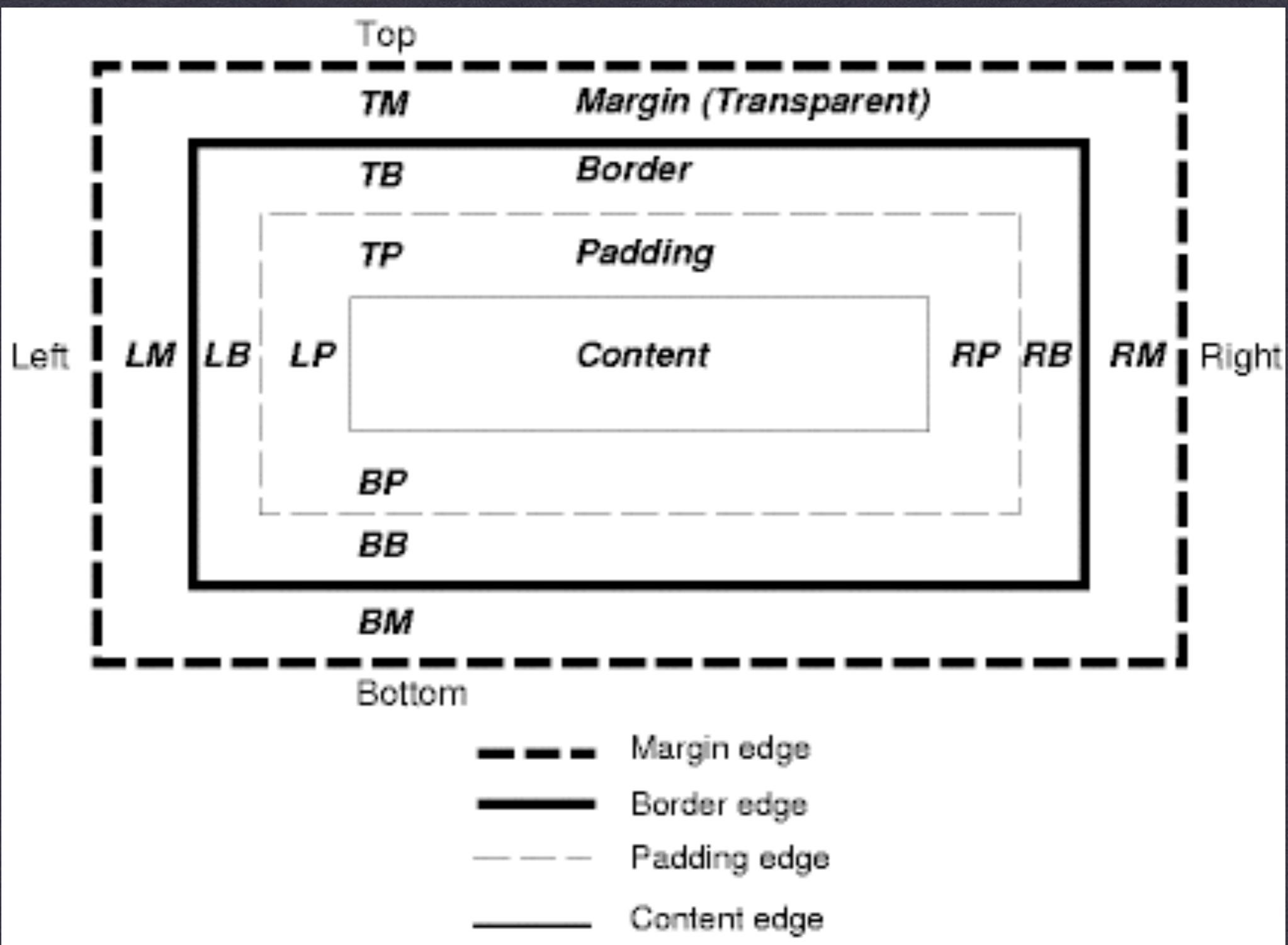
Those red boxes are all divs

```
1  <!DOCTYPE html>
2  ▼ <head>
3    <title>Bill Gates</title>
4      <link type="text/css" rel="stylesheet" href="donald.css"/>
5  </head>
6  ▼ <body>
7
8  ▼ <div>
9    <h1>Bill Gates</h1>
10   ▼ <p>em ipsum dolor sit amet, consectetur adipisicing elit, sed do
11     eiusmod
12     tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim
13     veniam,
14     quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea
15     commodo
16     consequat. Duis aute irure dolor in reprehenderit in voluptate velit
17     esse
18     cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat
19     cupidatat non
20     proident, sunt in culpa qui officia deserunt mollit anim id est
21     laborum.</p>
22   </div>
23
24   </body>
25 </html>
```

```
1 ▼ div {  
2   height: 320px;  
3   width: 400px;  
4   color: white;  
5   background-color: black;  
6  
7  
8 }
```

Bill Gates

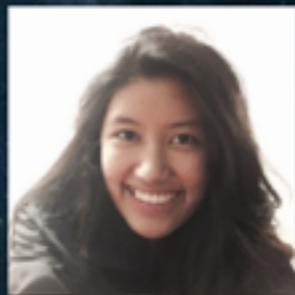
em ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.



BOX MODEL

**FIRST PROJECT!!!! -
LANDING PAGE**

MICHAELA POBLETE



Hey there! I'm Michaela! I'm an aspiring software engineer with an obsession with chocolate, an avid reader of Quora, love for trying new foods, and exploring different places and cultures. I enjoy talking with people about ideas and concepts - check out my profiles below!



SOLUTIONS

HTML CODE

```
1  <!DOCTYPE html>
2  ▼ <head>
3    <link rel="stylesheet" type="text/css" href="profile.css">
4    <link href="https://fonts.googleapis.com/css?family=Codystar" rel="stylesheet">
5    <link href="https://fonts.googleapis.com/css?family=Open+Sans" rel="stylesheet">
6  </head>
7  ▼ <body>
8  ▼ <div class="background">
9  ▼ <div class="profile">
10   <h1 id="name-font">Michaela Poblete</h1>
11   
12   <p>Hey there! I'm Michaela! I'm an aspiring software engineer with an obsession with chocolate, an avid reader of Quora, love for trying new foods, and exploring different places and cultures. I enjoy talking with people about ideas and concepts - check out my profiles below! </p>
13     <a href="https://www.facebook.com/michaela.poblete.52" target="_blank"></a>
15     <a href="#"></a>
16     <a href="#"></a>
17     <a href="#"></a>
18
19 </div>
20 </div> <!--background-->
21 </body>
22 </html>
```

CSS CODE

```
1 ▼ html {  
2     background: url(img/stars.jpg) no-repeat center center fixed;  
3     -webkit-background-size: cover;  
4     -moz-background-size: cover;  
5     -o-background-size: cover;  
6     background-size: cover;  
7 }  
8 ▼ .profile {  
9     height: 100%;  
10    width: 450px;  
11    background-color: rgba(0,0,0,0.55);  
12    border-radius: 5px;  
13    top: 50%;  
14    left: 50%;  
15    margin: auto;  
16    padding: 5px 55px 50px 55px;  
17    color: white;  
18    text-align: center;  
19 }  
20 ▼ .pic {  
21    margin: 0 auto;  
22    height: 130px;  
23    width: 130px;  
24 }  
25 ▼ #name-font {  
26    font-family: 'Codystar', cursive;  
27    font-weight: 700;  
28    font-size: 72px;  
29 }  
30 ▼ p {  
31    font-family: 'Open Sans', sans-serif;  
32 }  
33 ▼ .icons {  
34    height: 30px;  
35    width: 30px;  
36    padding-right: 5px;  
37 }
```

**NEXT
WORKSHOP!!!**

PART 2: More CSS

Objective: Create a simple, beautiful webpage.

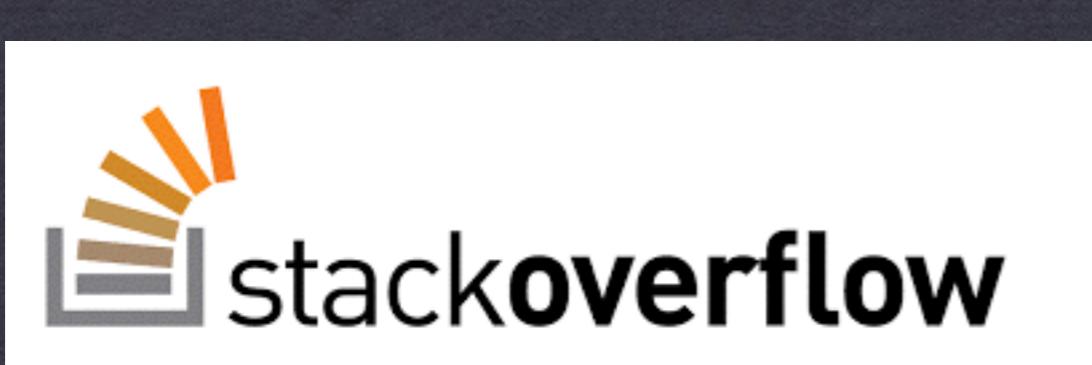
Recommendations for Self-Study

udemy

Codecademy One Month



MORE INFO ON
HTML AND
FORUM FOR
QUESTIONS



Further Reading on HTML5 Features:

<http://www.tekfunda.com/html/html-5-cheat-sheets/>

QUESTIONS?

- After this workshop.
- Right before the next one (Part 2)
- Email! It's: esscucd@gmail.com
- Find us up on Facebook. Look up:
UCDESSC
- During ESSC hours while I'm on shift! I'd
be happy to sit down with you and give
you pointers and I love visitors. Coding
side by side is a great way to learn. Just
ask about my shift times.
- If you want the slides or source code just
email!!!