

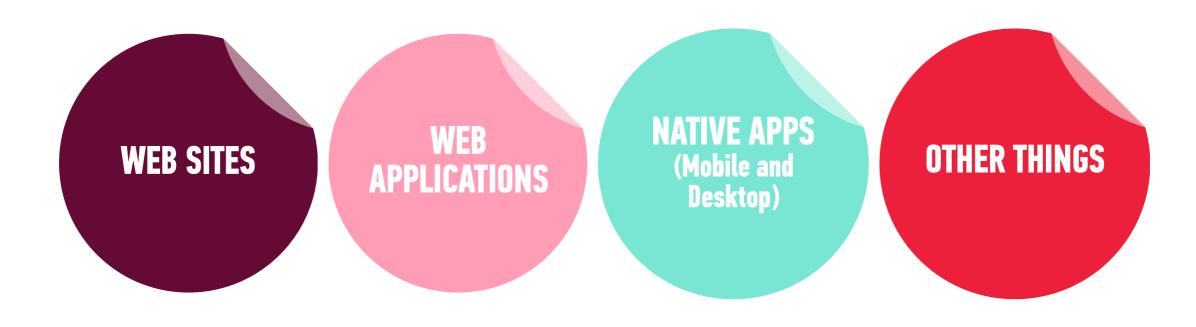
# INTRO TO HTML & CSS

Adam Bray & Andy Kim Instructors, Web Development Immersive

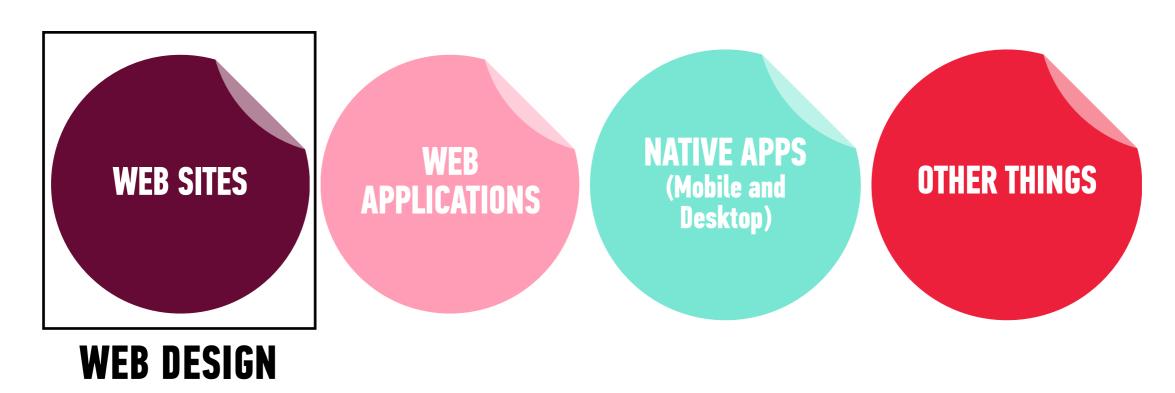
# A SET OF INSTRUCTIONS. A RECIPE. A STEP BY STEP PROCESS.



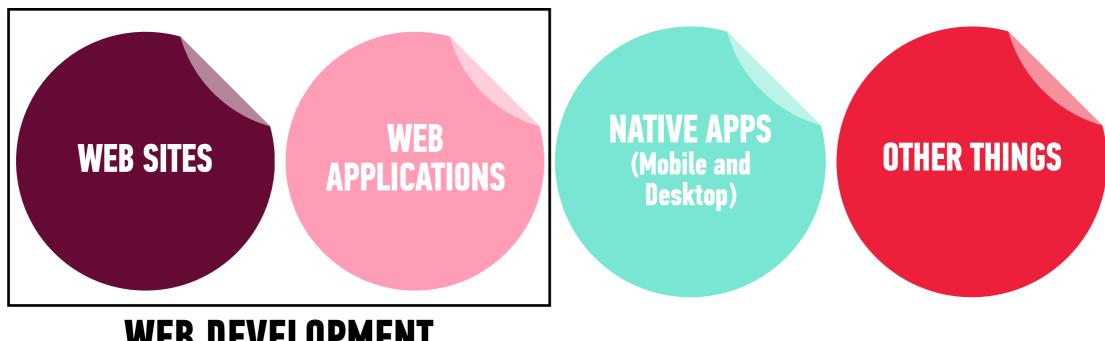
# WHAT CAN I BUILD?



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**WEB DEVELOPMENT** 

# FRONT END

The content of the page, visual styling instructions and code describing the interactive parts of the user interface.

# **BACK END**

The preparation of that content, storage of user-submitted data, and any 'business logic'.

# FRONT END LANGUAGES

Front End

HTML, CSS and JavaScript

# BACK END LANGUAGES

**Back End** 

Ruby, PHP,
Python, Perl,
Java and more

# HYPERTEXT MARKUP LANGUAGE

# HTML



Text that you can click through: hyperlinks!

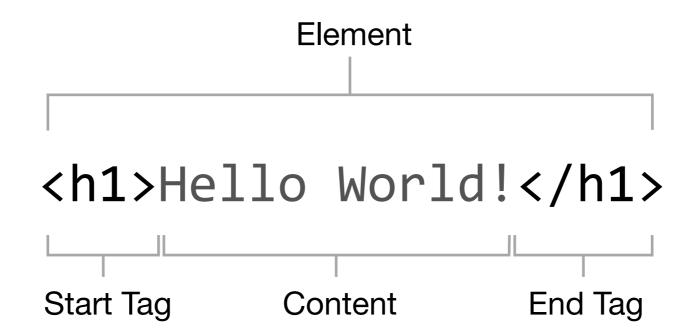
# Markup

Highlighting parts of content for description

# Language

A means of communicating between two things (you and the computer!)

# HTML SYNTAX



## HTML HEADING ELEMENTS

```
<h1>Top-Level Heading</h1>
<h2>Second-Level Heading</h2>
<h3>Third-Level Heading</h3>
<h4>Fourth-Level Heading</h4>
<h5>Fifth-Level Heading</h5>
<h6>Bottom-Level Heading</h6>
```

## HTML PARAGRAPH ELEMENT

Lorem 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.

# HTML NESTING SYNTAX

```
     Hello
     World
```

# HTML LIST ELEMENTS

# HTML ATTRIBUTES

Attributes allow us to provide more information about an element to the browser.

```
Attribute

Lorem ipsum dolor sit amet

Name

Value
```

# HTML HYPERLINK ELEMENT

Also known as the 'anchor' element. Used to make a clickable link between HTML documents.

```
<a href="http://www.google.com">Click here to go to google!</a>
```

# HTML IMAGE ELEMENT

Used for content images (not backgrounds). Look! It's self-closing!

```
<img src="http://www.mcdonalds.com/content/dam/McDonalds/item/
mcdonalds-Chocolate-Chip-Cookie.png" alt="Text description of the
picture" />
```

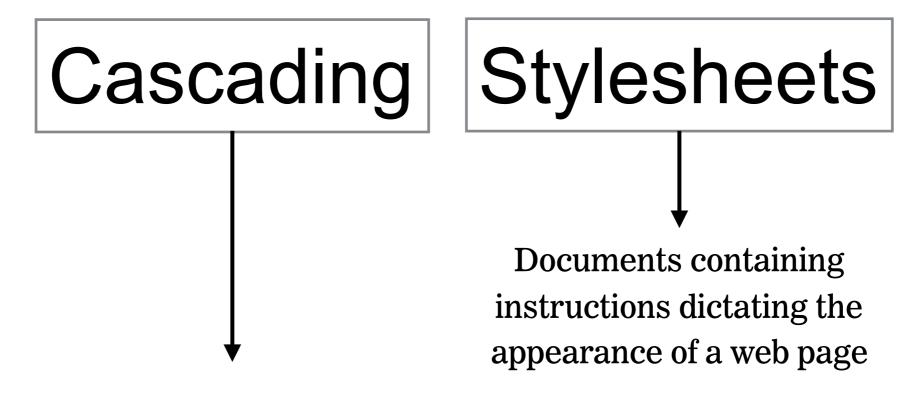
# DIVISION 'DIV' ELEMENT

<div></div>			
<div></div>			
<div></div>			
<div></div>			

# CSS

# **CASCADING STYLESHEETS**

# CSS



Styling instructions can overlap and overrule one another, to various ends.

# **CSS SYNTAX**

```
Selector

h1 {
    color: red;
}
Property Value
```

# **CSS SELECTOR SYNTAX**

Element name selectors are used to select that type of element all through the document.

```
Lorem ipsum
p {
    font-weight: bold;
}
```

# **SOME CSS PROPERTIES**

```
color: red;
background: yellow;
font-family: helvetica sans-serif;
font-size: 20px;
border: 1px solid black;
width: 300px;
```

# CSS CLASS SELECTOR SYNTAX

Classes are used to style **certain elements**; they could be different types of elements or at different positions in the page.

```
Lorem ipsum
.intro {
    font-weight: bold;
}
```

# CSS ID SELECTOR SYNTAX

Use an ID to style an **individual element**. A unique ID should only be used once, on one element, in an HTML document.

```
Lorem ipsum
#intro {
    font-weight: bold;
}
```

# CSS COLOURS

#### Name

e.g. red, lightgrey, green, black

#### **RGB**

e.g. rgb(255,0,0), rgb(128,128,128), rgb(0,200,50)

#### RGBa

e.g. rgba(255,0,0,1), rgba(128,128,128,0.5), rgba(0,200,50,0.1)

#### Hexadecimal

e.g. #33ffcc, #666666, #bada55

# **CSS HEXADECIMAL SYNTAX**

Instead of counting 0-15, computers like to count 00-09 then 0a-0f.

Base 10	Base 16	Base 10	Base 16
0	00	16	10
1	01	17	11
2	02	18	12
3	03	19	13
4	04	20	14
5	05	21	15
6	06	22	16
7	07	23	17
8	08	24	18
9	09	25	19
10	0a	26	1a
11	0b	27	1b
12	0с	28	1c
13	0d	29	1d
14	0e	30	1e
15	0 <del>f</del>	31	1f
		32	

# CSS HEXADECIMAL SYNTAX

```
# red green blue
# 00-ff 00-ff
```

```
e.g. #000000 = black
  #ff0000 = red
  #333333 = dark grey
  #ccccff = light blue
  #ffffff = white
```

## **CSS RGB SYNTAX**

rgb(255,0,0) = red

rgb(50,50,50) = dark grey

rgb(255,255,255) = white

rgb(196,196,255) = light blue

```
rgb( red , green , blue )
rgb( 0-255 , 0-255 , 0-255 )

e.g. rgb(0,0,0) = black
```

# **CSS COLOUR NAMES**

aliceblue, antiquewhite, aqua, aquamarine, azure, beige, bisque, black, blanchedalmond, blue, blueviolet, brown, burlywood, cadetblue, chartreuse, chocolate, coral, cornflowerblue, cornsilk, crimson, cyan, darkblue, darkcyan, darkgoldenrod, darkgray, darkgreen, darkkhaki, darkmagenta, darkolivegreen, darkorange, darkorchid, darkred, darksalmon, darkseagreen, darkslateblue, darkslategray, darkturquoise, darkviolet, deeppink, deepskyblue, dimgray, dodgerblue, firebrick, floralwhite, forestgreen, fuchsia, gainsboro, ghostwhite, gold, goldenrod, gray, green, greenyellow, honeydew, hotpink, indianred, indigo, ivory, khaki, lavender, lavenderblush, lawngreen, lemonchiffon, lightblue, lightcoral, lightcyan, lightgoldenrodyellow, lightgray, lightgreen, lightpink, lightsalmon, lightseagreen, lightskyblue, lightslategray, lightsteelblue, lightyellow, lime, limegreen, linen, magenta, maroon, mediumaquamarine, mediumblue, mediumorchid, mediumpurple, mediumseagreen, mediumslateblue, mediumspringgreen, mediumturquoise, mediumvioletred, midnightblue, mintcream, mistyrose, moccasin, navajowhite, navy, oldlace, olive, olivedrab, orange, orangered, orchid, palegoldenrod, palegreen, paleturquoise, palevioletred, papayawhip, peachpuff, peru, pink, plum, powderblue, purple, red, rosybrown, royalblue, saddlebrown, salmon, sandybrown, seagreen, seashell, sienna, silver, skyblue, slateblue, slategray, snow, springgreen, steelblue, tan, teal, thistle, tomato, turquoise, violet, wheat, white, whitesmoke, yellow, yellowgreen

e.g. <a href="http://colours.neilorangepeel.com">http://colours.neilorangepeel.com</a>

# **CSS BOX PROPERTIES**

```
width: 50%;
```

height: 150px;

```
padding: 20px;
```

border: 1px solid black;

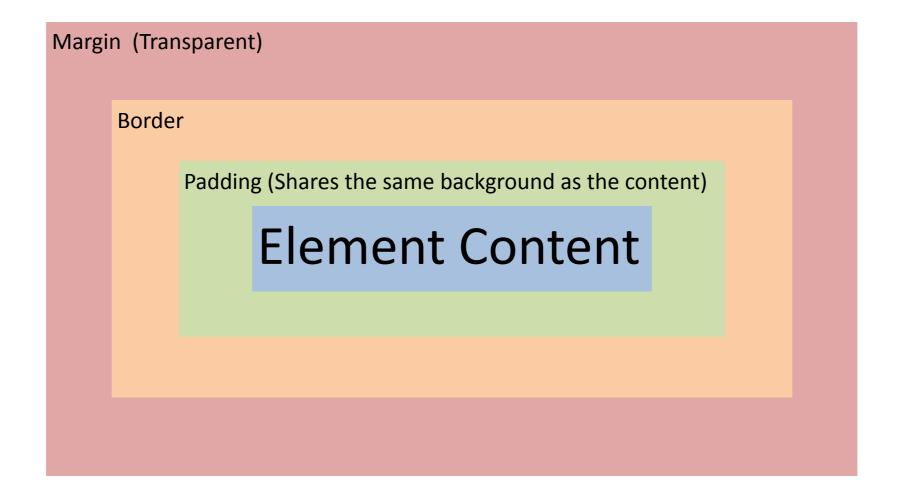
margin: 50px;

# **CSS BOX PROPERTIES**

Margin, padding and border-width accept shortcuts:

```
/* All sides */
margin: 10px;
/* Top bottom, left right */
margin: 10px 50px;
/* Top, left right, bottom */
margin: 10px 50px 100px;
/* Top, right, bottom, left */
margin: 10px 50px 100px 20px;
```

# **CSS BOX MODEL**



# **CSS BOX MODEL EXAMPLE**

## **Heading Text**

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# CSS BOX MODEL EXAMPLE

### **Heading Text**

#### **Padding**

Border

#### Margin

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# **CSS BOX MODEL EXAMPLE**



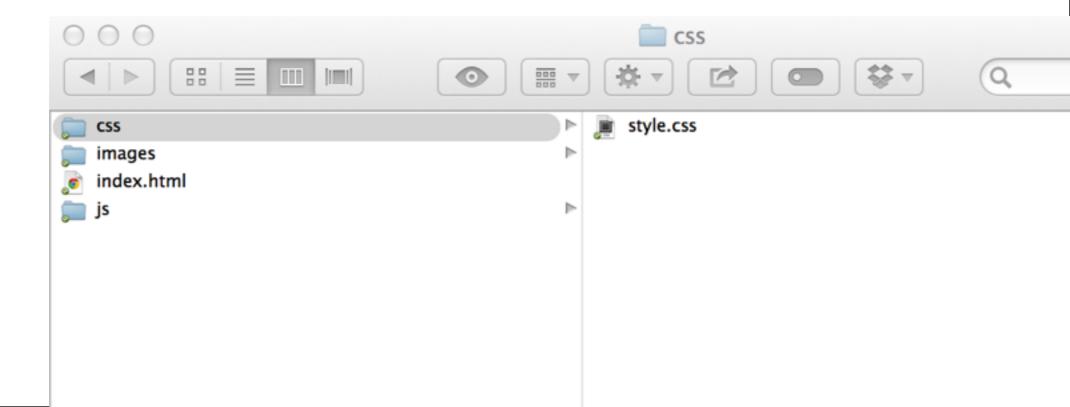
# **CSS BOX MODEL EXAMPLE**

НОМЕ	ABOUT	PRODUCTS	CONTACT

# BUILDING A SITE LOCALLY

# FILE STRUCTURE

We use lowercase file and folder names with no spaces in them. Hyphens or underscores can be used in place of spaces.



# HTML DOCUMENT STRUCTURE

```
<!doctype html>
<html>
     <head>
          <!-- Document metadata goes here -->
     </head>
     <body>
          <!-- Document contents goes here -->
     </body>
</html>
```

# **HTML FILE PATHS**

Files can be referenced from one file to another a number of ways:

#### Relative

```
src="../images/kitten.jpg"
```

#### **Absolute**

```
src="/images/background.jpg"
```

#### Full Qualified (aka Hotlinking)

```
src="http://www.placekitten.com/400/300"
```

# HTML LINK ELEMENT

We need to use a link element to tell the browser to apply CSS to our HTML page.