art 4217

Advanced Digital Applications

Lecturer Ashwin Anandani

HTML + CSS

- First day of code!
- Fundamentals
- Starter exercise: Make a basic page from scratch

HTML + CSS (Day 2)

- Open your Codepen
- Review
- Practical: Using Bootstrap
- Short Lecture: The Grid System
- Continue Practical: Using Bootstrap, adding menus

HTML + CSS (Day 3)

- Review Lecture: The Grid, Bootstrap, Display
- Practical: Use Bootstrap to make your app UI
- Short Lecture : Getting it online
- Practical: Put your site online and add a new folder

Code Basics

A little demonstration....

What We Use To Make Sites

- Sites are just documents that a browser processes

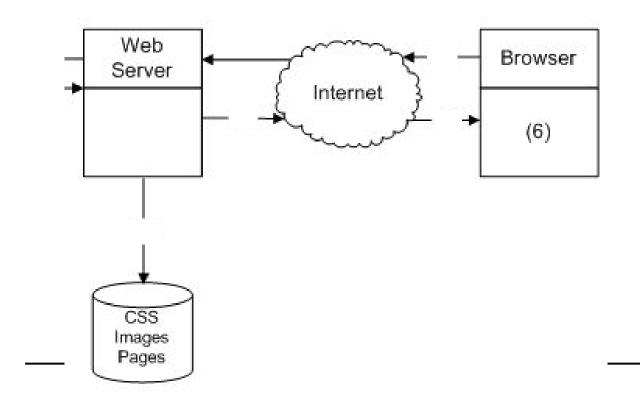
- You need a code editor to write code:



Sublime Text 3

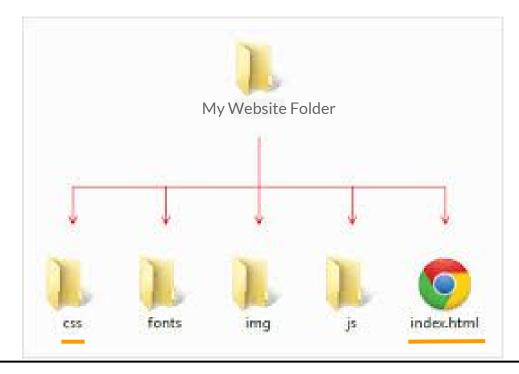
sublimetext.com/3

How sites are structured

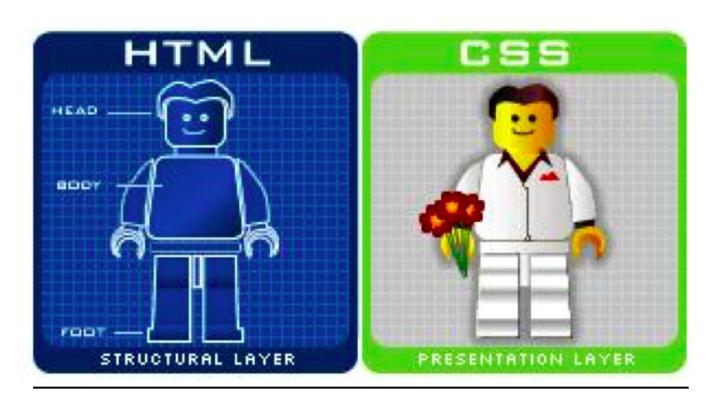


How sites are structured

On the 'Web Server'

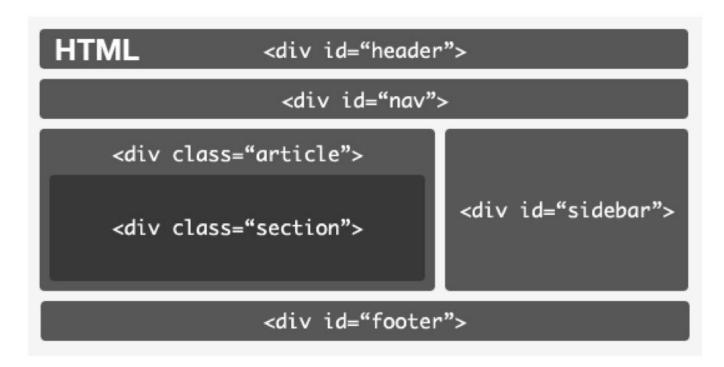


Two Languages To Use



How HTML pages are structured

As a design



An easier way to start...

www.CodePen.io/pen

Activity

Create the same page yourself

Create The (next) Page

Everything has to look exactly the same

- Use <u>codepen.io</u>
- Modify the styling
- Copy down the same text
 - It will help you memorise

This is a sidebar < div > in 35% width



Heading 2

The is used for paragraph text.

Learn from places online

- w3schools.com/cssref
- simplehtmlguide.com/cheatsheet.php

- For fonts: google.com/fonts
- Search Google as much as possible

Layout = HTML

- <head> will *not* be shown on the webpage
- <title> : To set the name in the browser tab
-
<body> : Content of the page
- <div> : Divider used to create containers for control
- <h1> ... <h6> : Header tags for titles (with pre-set sizes)
- : Use for regular writing
- <a> : Link to another site
- : For images

Layout = HTML

Example:

<h1>This is a Header</h1>

This is not

background: for background colours

background-image: url(" get the link to your image ")

color: for the colour of text

font-size: to change the size of text

margin: for the distance between other stuff

display: for how something should show (like a block or

even not at all)



```
Look up "hex
Example:
                           color codes"
tag
      color: #123;
.class {
   background: #abc;
```

CSS needs to talk to the HTML: ID and Class

Class is for styles you want to use over and over

ID is for something really specific

```
<div class="col2" >
<h2>HomePage</h2>
        <img src="images/Skateboarder-2.jpeg" alt="Skateboarder-2" id="
        floatRight">
```

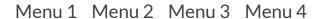
CSS uses # to choose IDs, and . to choose Classes

```
float:left;
    float:left;
    width:46%;
    padding:0 2% 1em 2%;
    overflow:hidden;
    position:relative;
    left:-75%;
}
```

```
#floatRight {
    float:right;
}
```

Practical II

Add the menu into your page





This is a sidebar div-sin.35% width

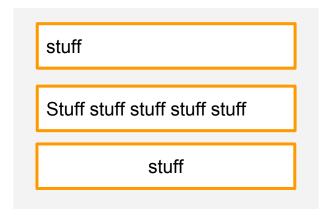


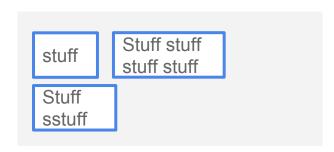
Heading 2

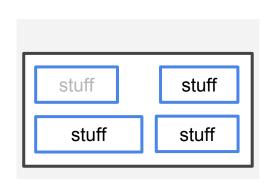
The is used for paragraph text.

Understanding 'display'

Easy way







display:

block

display:

inline

display:

inline-block

Responsiveness

More like cheatsheet...

THE GRID

The grid is a 12-column fluid grid with a max width of 960px, that shrinks with the browser/device at smaller sizes. The max width can be changed with one line of CSS and all columns will resize accordingly. The syntax is simple and it makes coding responsive much easier. Go ahead, resize the browser.

ONE	E	LEVEN					
тwо		TEN					
THREE		NINE					
FOUR		EIGHT					
FIVE		SEVEN					
SIX			SIX				
S	EVEN	FIVE					
	EIGHT		FOUR	FOUR			
	NINE			THREE			
	TEN			TWO			
	ELEVEN						

Example: Stacked-to-horizontal

.col-md-6

Using a single set of .col-md-* grid classes, you can create a basic grid system that starts out stacked on mobile devices and tablet devices (the extra small to small range) before becoming horizontal on desktop (medium) devices. Place grid columns in any .row .

| .col-
md-1 |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| .col-md-8 | | | | | | .col-md-4 | | | | | |
| .col-md-4 | | .col-md-4 | | | .col-md-4 | | | | | | |

.col-md-6

```
Copy
<div class="row">
 <div class="col-md-1">,col-md-1</div>
 <div class="col-md-1">.col-md-1</div>
 <div class="col-md-1">.col-md-1</div>
</div>
<div class="row">
 <div class="col-md-8">.col-md-8</div>
 <div class="col-md-4">.col-md-4</div>
</div>
<div class="row">
 <div class="col-md-4">.col-md-4</div>
 <div class="col-md-4">,col-md-4</div>
 <div class="col-md-4">.col-md-4</div>
</div>
<div class="row">
 <div class="col-md-6">.col-md-6</div>
 <div class="col-md-6">,col-md-6</div>
</div>
```

So let's try that again...

Easier way

http://codepen.io/ashwinbsd/pen/bqrOVy

What's happening? **Bootstrap**

Is a pre-written grid we usually use to start with

http://getbootstrap.com/css/#grid-intro

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                  .col2 {
                     float:left;
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```

background: for background colours

background-image: url(" get the link to your image ")

color: for the colour of text

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Practical III

Making your App UI

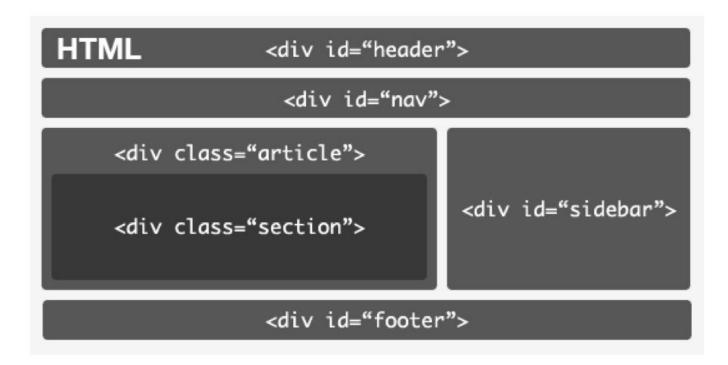
Try to make your App UI

Just the opening page

- Plan it out as blocks first
- Use background: url('')
- Use background-size: cover

Drawing it out

Example:



Learn from places online

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- simplehtmlguide.com/cheatsheet.php

- For fonts: google.com/fonts
- Search Google as much as possible

Add additional pages from the UI

And link them to each other

- Use
- Understand how to link your CSS correctly
 - One CSS file for all HTML files
 - o Use <link ref="style.css">

Getting stuff online

How to get things like images to show up at a URL

Get a free server

It'll actually be on your computer



GitHub Desktop

http://desktop.github.com

What's going on

Make a folder on your computer

GitHub will connect it to the internet

 You'll put your files here and be able to clone them anywhere at anytime

Practical III

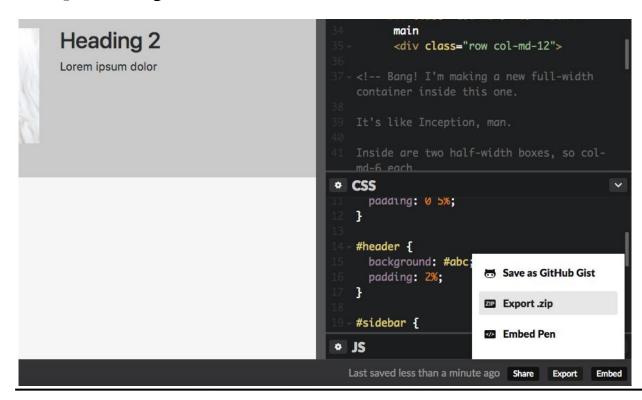
Continued

Add additional pages from the UI

And link them to each other

- Use
- Understand how to link your CSS correctly
 - One CSS file for all HTML files
 - o Use <link ref="style.css">

Export your code in the end



This deck is now at:

http://ashportfolio.github.io/art4217/decks/lesson-7-9.pdf