GENERAL ASSEMBLY

FEWD



Joe Bliss Will Code for Food

AGENDA

Github, Personal Website Review

Google Chrome Inspector

The Box Model: Padding, Margin, Border

Browser Variances: Simple CSS Reset, Normalize.css

The Display Property: Block vs. Inline

<div> and

Embedded Fonts

Classes and ID's

Nested Selectors

Semantic Elements: <header>, <aside>, <footer>, etc.

LET'S GIT DOWN TO BUSINESS!



GIT / GITHUB

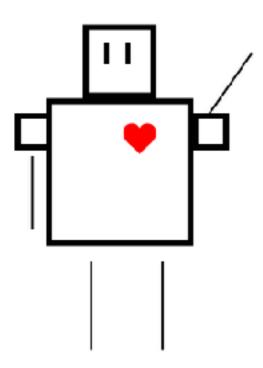


HOMEWORK WORKFLOW

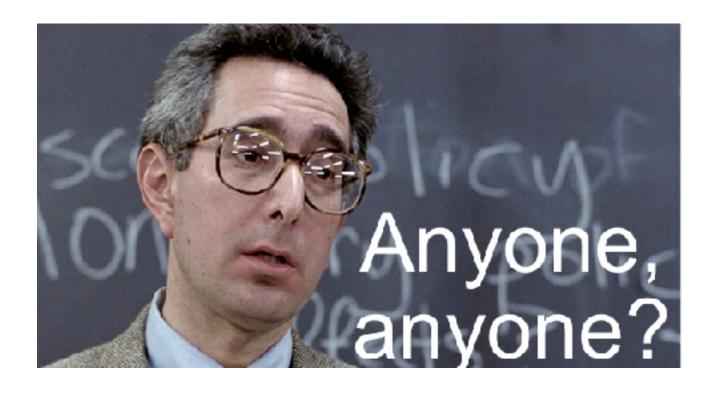
fork, clone, commit, sync, pull request, (and branch and publish ... oh my!)

DEPLOYING SITE VIA GITBOT

http://gitbot.co/



PERSONAL WEBSITE



If you're comfortable, please post a link in Slack!

GOOGLE CHROME INSPECTOR



GOOGLE CHROME INSPECTOR

Allows us to "peek under the hood".

Allows you to see the style of specific elements on a page on-the-fly.

EXERCISE - SCAVENGER HUNT

Pick any (not too complex) site.

What color are the links (default

<a> tag)?

Is an <h1> tag being used?

Are other headings being used (h2-h6)?

Find the src of a particular image? Is it a relative or absolute?

How many stylesheets are <link>ed in the <head>?



THE BOX MODEL

Every element on your website is a box. Most of these boxes get stacked on top of one another.

The layout of each "box" is a combination of the object's content, padding, border, and margin.

Let's look at some sites.



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padding-top

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padding-right

padding-bottom

adding-left

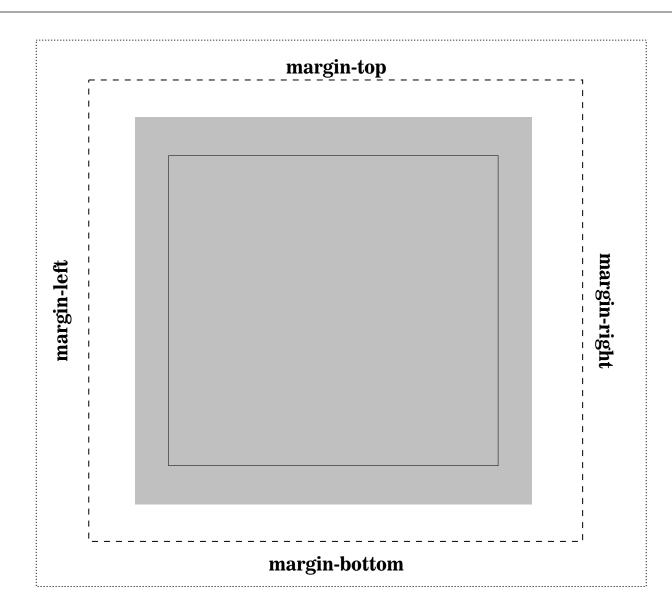
border-top

oorder-left

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border-bottom

border-right



BOX MODEL

content

- The text and images that are within the element <tags> padding
- The space between the content and the border of the element. border
 - The border around the element.

margin

The space between the border and the other objects on the page.

PADDING

Often specified via pixels, it adds space around an objects content.

Padding is considered part of the overall width of the object.

Backgrounds extend to padding.

BORDERS

Usually specified via pixels, it adds a border to an object outside of the background

Borders is considered part of the overall width of the object.

Backgrounds do extend to borders.

A NOTE ON BORDERS

Borders consist of 3 properties:

- border-width: a number of pixels indicating how wide or "heavy" the border should be
- border-style: what type of border it is (common value are dotted, dashed, solid, and double)
- border-color: what color the border is

BORDER SHORTHAND

```
p {
 border-width: 2px;
 border-style: dashed;
 border-color: red;
OR.
p {
 border: 2px dashed red;
```

BORDER SHORTHAND

This is the first instance we've seen of CSS Shorthand properties. Sometimes, related CSS properties can be grouped-together, rather than listing-out.

We will use shorthand values of many properties.

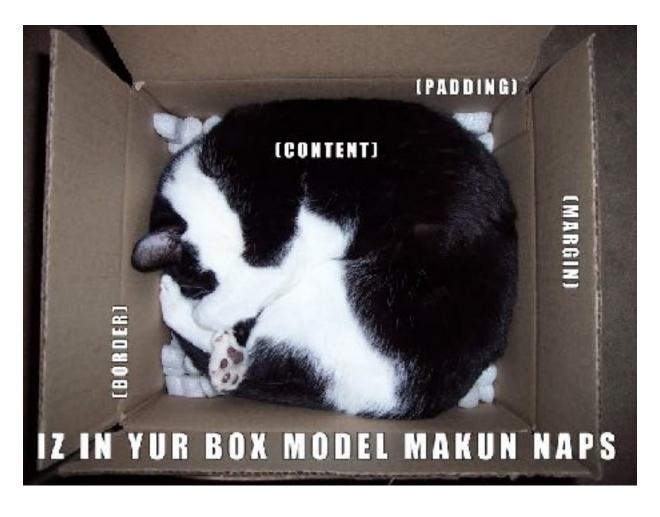
MARGIN

Often specified via pixels, it adds space around an object between the border and other objects on the page.

Margin is NOT considered part of the overall width of the object.

Backgrounds do not extend to margins.

I CAN HAZ BOX?



BROWSER VARIANCES

Every web browser has a different default style, what is referred-to as that browser's "User Agent Stylesheet". It is in place to attempt to make a website rendered without CSS more legible. (underlined and different colored links, variable sizes for h1-h6, etc.).

However, every browser's user agent stylesheet is subtly DIFFERENT (or not-so subtly different). This makes coding consistent Front-End code a headache.

FOR EXAMPLE

Browser	font-size	margin
W3C Recommended	2em	0.67em 0
IE7	24pt	14.25pt 0
IE8	2em	0.67em 0
FF2	32px	21.4667px 0
FF3	32px	21.4333px 0
Opera	32px	21px 0
Safari	32px	21px 0

http://www.vanseodesign.com/css/css-resets-pros-cons/

FOR EXAMPLE

Rendered in Firefox 3

space on top e vitae orci. Lorem ipsum do of paragraph scing elit. Suspendisse peller ligula ipsum tempus odio, sit ame Nulla facilisi. Sed sem. Mauris ru Pellentesque eu ante. Nulla facilis pellentesque pellentesque. Nam

Rendered in IE 7

Fusce vitae orci. Lorem ips ... but no adipiscing elit. Suspendisse space for IE. ligula ipsum tempus odio, sit ame Nulla facilisi. Sed sem. Mauris ru Pellentesque eu ante. Nulla facilis pellentesque pellentesque. Nam unatoque penatibus et magnis dis pellentesque penatibus et magnis dis penatibus et magnis dis penatibus et magnis dis penatibus et magnis dis penatibus et magnis et magnis dis penatibus et magnis et mag

DEALING WITH BROWSER VARIANCES

Way 1: Reset It

A simple CSS reset that removes all default padding and margin from an object:

```
* {
margin: 0;
padding: 0;
}
```

CODEALONG - BROOK+LYN

We will use the simple CSS reset in this exercise.

DISPLAY: BLOCK; VS. DISPLAY: INLINE;

All of our HTML elements fall into one of two categories: Those that are "inline" and those that are "block". More specifically, all HTML elements have a CSS property - "display" - set by default to be one of two things: display: block; or display: inline; We will refer to these, shorthandedly, as being "block" elements and "inline" elements.

BLOCK ELEMENTS...

... expand to fill their parent container (unless an explicit width is set).

... can have margin and padding assigned.

... will expand naturally to the height of whatever content is within them (unless an explicit height is set).

.. will be placed below previous elements in the markup and break

to a new line after.

BLOCK ELEMENTS



BLOCK ELEMENTS

Examples of Block Elements

INLINE ELEMENTS

... flow along with text content, thus will not clear previous content to drop to the next line like block elements.

... will ignore top and bottom margin settings, but will apply left and right margins, and any padding.

... will ignore the width and height properties.



INLINE ELEMENTS

INLINE ELEMENTS FLOW WITH TEXT

PELLENTES QUE HABITANT MORBITRISTIQUE SENECTUS
ET NETUS ET MALESUADA FAMES AC TURPIS EGESTAS.
VESTIBULUM INLINE ELEMENT VITAE, ULTRICIES
EGET, TEMPOR SIT AMET, ANTE. DONEC EU LIBERO SIT
AMET QUAM EGESTAS SEMPER. AENEAN ULTRICIES MI
VITAE EST. MAURIS PLACERAT ELEIFEND LEO.

INLINE ELEMENTS

Examples of Inline Elements:

<a>, , , and <code>.

BLOCK AND INLINE

The easiest way to see these behaviors is by setting the background-color of several elements.

http://codepen.io/ga-joe/pen/BzWNgR?editors=110

HORIZONTAL CENTERING

We can center an inline object by setting text-align: center; on its parent.

We can center a block object by setting a width on it and margin-left: auto; and margin-right: auto;

SPAN AND DIV

 is a generic inline element.

<div> is a generic block element.

They have no inherent meaning.

We use them to provide structure for styling other elements that they wrap.

SPAN

We use to add hooks onto specific words / phrases within flowing content.

http://codepen.io/ga-joe/pen/gMmpNL

THE ALMIGHTY DIV!

The most basic building block of HTML.

By itself, it does nothing and has no dimensions. It is used to organize other tags into blocks of content.

We use it for layout EVERYWHERE.

CODEALONG - USING THE DIV

Joe's Bistro

Appetizers

Olive Tapenade

Babaganoush

Chackchouka

Desserts

Pastilla Au Lait

Strawberry & Cream Caramel

Chocolate Mousse

Entrees
Leg Of Lamb
Wild Mushroom Risotto
Wild Salmon Tomato Confit

EMBEDDING FONTS



EMBEDDING FONTS

If we want to use a font not considered "Web Safe" or want to pick a custom font for our pages, we can embed a font file with our site. With embedded fonts, the browser is "temporarily installing" the font and rendering all the type with the given font. Yay!

Unfortunately different browsers understand different font file types. Yes. Seriously.

EMBEDDING FONTS

There are four ways to embed fonts:

- Use Google Fonts
- Use another embedding service (e.g. https://typekit.com/)
- Download a webfont kit(e.g. http://www.fontsquirrel.com/)
- Create a webfont kit (advanced)

GOOGLE FONTS

https://www.google.com/fonts

Pick a font you like.

Click "+".

Copy < link > tag provided.

Paste into <head> tag before your own CSS.

Use the "font-family" shown in your CSS.

Boom!

@FONT-FACE



@FONT-FACE

Download the webfont kit.

Create a folder for "fonts" in your project folder, copy all font files from the webfont kit into your fonts folder.

Copy the @font-face rule from the enclosed stylesheet to yours, making appropriate changes to filepaths.

CODEALONG - EMBEDDED FONTS

Add a Google Font

Add a Webfont Kit

DEALING WITH BROWSER VARIANCES

Way 2: Normalize It

- A way to make all browsers the same while maintaining some default styles.
- https://necolas.github.io/normalize.css/

NORMAL EYES VS. STEVE BUSCEM-EYES



http://chickswithstevebuscemeyes.tumblr.com/

DEALING WITH BROWSER VARIANCES

There are many different ways to do it, and there is spirited debate among Developers which is right, the best, and how to use them.

http://sixrevisions.com/css/should-you-reset-your-css/ http://www.vanseodesign.com/css/css-resets-pros-cons/ http://cssreset.com/which-css-reset-should-i-use/ https://www.sitepoint.com/css-resets-useful-or-useless/

PARTNER EXERCISE - ECARDLY

We will start it together.

If you're feeling up for a challenge (and have worked with "float" or "flexbox" before), try to tackle Ecardly Two Column.

RIDDLE ME THIS ...

What if we want to set the width of one of our <div>'s without affecting the rest?

What if we have 3 's on our site that we want red and two we want blue?

What would we do?

CLASSES AND IDS

Classes and ID's are a way, in the HTML, to provide "flags" on content that we can then style in the CSS.

IDS

```
#someid {
  //css goes here
}
<!-- This content will be styled accordingly -->
  <div id="someid">
  </div>
```

CLASSES

```
.someclass {
//css goes here
}

<!-- This content will be styled accordingly -->
  <div class="someclass">
  </div>
  <div class="someclass">
  </div>
  </div>
```

CODEALONG - COFFE SHOP

http://codepen.io/ga-joe/pen/LZWVKP

Add a "milk" class to the drinks that contain milk.

Add an "order" id to the "For: Joe" line.

RULE OF THUMB

Use an ID when you are styling one specific item.

Use a CLASS when you are styling a group of items.

HTML5 STRUCTURAL ELEMENTS

The following behave exactly like <div>'s, but add semantic value to your code:

- <header>
- <footer>
- <nav>
- <section>
- <aside>
- <article>

HTML5 ELEMENTS

<header>

Defines a header for a document or section

<footer>

Defines a footer for a document or section

<nav>

Defines navigation links

HTML5 ELEMENTS

<section>

Defines a section in a document

<aside>

Defines content aside from the page content

<article>

Defines an article (as in a blog or news site)

CODEALONG - HTML5 ELEMENTS

Let's incorporate these into Ecardly.

Which elements that we are already using will be replaced with HTML5 elements with more semantic value than just a <div>?

EXERCISE - FASHION BLOG

If you're feeling ambitious, tackle the Fashion-Blog Part 2.