GENERAL ASSEMBLY
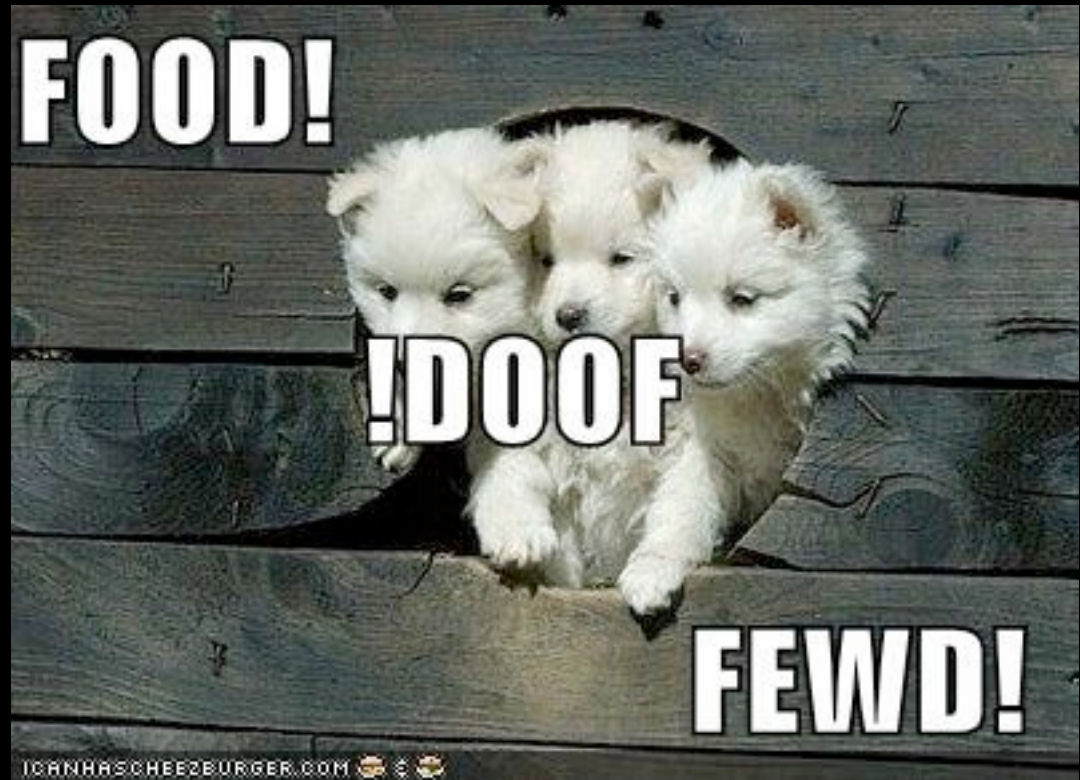
FEWD

Joe Bliss
Functionally Sleep-Deprived

AGENDA

Questions on Busy Hands

Clarifying Floats and Clears

Fluid Layout

Potpourri

Group Lab - Startup Matchmaker

Programmatic Thinking

Intro to JS

Saturday, January 11, 14

BUSY HANDS

How'd it go? What can we clarify / help with?

FLOATS AND CLEARS

A left-floated box will shift to the left until its leftmost margin edge touches either the edge of the containing block, or the edge of another floated box

If the size of the floated box exceeds the available horizontal space, the floated box will be shifted down

Non-positioned, non-floated, block-level elements act as if the floated element is not there

Inline elements flow next to the floated element.

FLOATS AND CLEARS

3 Types of Float Scenarios:

1 - Inline text wrapping a floated element.
- May need to be cleared

2 - Column Layouts
- Must be cleared (if there is content following)

3 - Elements floated within a parent.
- Must be cleared (or parent element will collapse)

FLUID LAYOUT

FLUID LAYOUT

Fluid layout is our first step toward Responsive Design.

We use %'s for our box-model values (height, width, margin, padding, border) in order to achieve relative sizes based on the browser size.

CODEALONG – FLUID NAVIGATION

In codepen, we'll make a fluid nav bar.

EXERCISE – ROXY CAT

Let's turn this static site into a "Responsive" site using fluid layouts. Instead of hard-coding pixel values, change these to percents.

Change-up the style and add your own content!

POTPOURRI

<del>, <ins>
rgba colors
border-radius
box-shadow

<DEL>, <INS>

Deleted and inserted parts of text.

Very specific use cases for when you would use these tags.

RGBA COLORS

rgb(0,0,0); - RGB colors are completely opaque.

rgba(0,0,0,.5); - RGBA colors are semi-transparent. This defines the color black, but with 50% opacity.

background-color: rgba(255, 255, 255, .7);

- would give a 70% opaque white box.

BORDER-RADIUS

border-radius: 10px;

border-radius: 5px 10px 15px 20px;
- top left, top right, bottom right, bottom left

border-top-left-radius: 5px;
border-top-right-radius: 10px;
border-bottom-right-radius: 15px;
border-bottom-left-radius: 20px;

BOX-SHADOW

box-shadow: 2px 4px 5px 3px #cccccc;

- Horizontal offset - relative horizontal position of shadow

- Vertical offset - relative vertical position of shadow

- Blur radius - how "blurred" the edge of the shadow is

- Spread radius - how big the shadow is

- Color - the color of the shadow

CODEALONG – STARTUP MATCHMAKER (MATCHMAKER, MAKE ME A MATCH …)

Take a few minutes to think about how you would approach this site. We will build the home page together. You will build the Developer and Designer pages for homework.

While you're doing that, we will be around to ask about your final project ideas.

INTRO TO

 +

– "THE"

WHAT IS A PROGRAM?

A program is a set of instructions that you write to tell a computer what to do

WHAT IS PROGRAMMING?

Programming is the task of writing those instructions in a language that the computer can understand.

BECOMING A PROGRAMMER

It isn't about the programming language. It is about changing how you think.

We have to know how the computer thinks to change how we think.

THINK LIKE A COMPUTER

CLOSE YOUR LAPTOPS

PSEUDO CODE

Computers don't think, they act as if they do, by sequentially executing simple instructions.

The only things a computer knows are the things we tell it.

Pseudocode is the process of writing a program without using the syntax of a programming language.

CODEALONG – THERMOSTAT

Write pseudo code for how a home thermostat works.

EXERCISE – WHAT CAN JS DO?

Go out on the internet and find some cool effects on your favorite sites. We want to try to explore the different things we can add to our sites by utilizing Javascript.

(SOME) USES OF JAVASCRIPT

Adding / Removing Elements

Changing CSS "on-the-fly"

Animating content

Detecting user interactions

Form validation

Loading dynamic content

Etc.

READING JAVASCRIPT CODE

Color Switcher

http://codepen.io/josephjbliss/pen/lIuyr

Let's add the Javascript to the page and see if you can work-out how it is working.

INCLUDING JS IN YOUR PROJECT

Any file with the ".js" extension. Like CSS, we include it one of two ways:

External (most common)
<script type="text/javascript" src="js/project.js"></script>

Internal
<script type="text/javascript">
    //Do stuff here
</script>

CODEALONG – COLORFUL PAGE

Look at the scripts in the "js" folder.

We are going to add them in the following order:

‣ jquery-1.9.1.js

‣ jquery.easing.min.js

‣ jquery.animate-colors-min.js

‣ project.js

CODEALONG – OUR FIRST JAVASCRIPT

We will write our first Javascript together.

Baby steps...

FINAL PROJECT MILESTONE

Make sure Constantin, Eddie, or I have chatted with you about your project before you go today. An initial sketch or "wireframe" is due by next week:

- Can be sketched out by hand

- Can be done using a wireframing tool

- http://balsamiq.com/