Web Skills Day 2

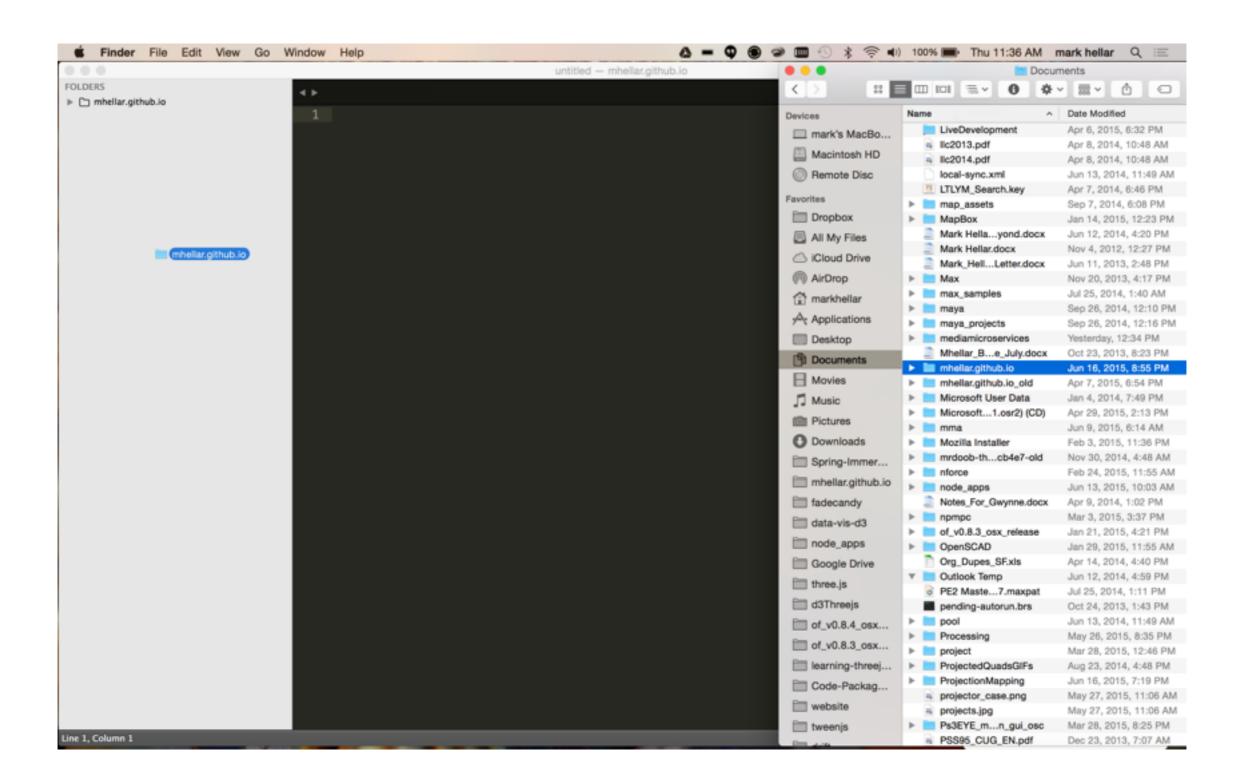
http://www.creativeapplications.net/

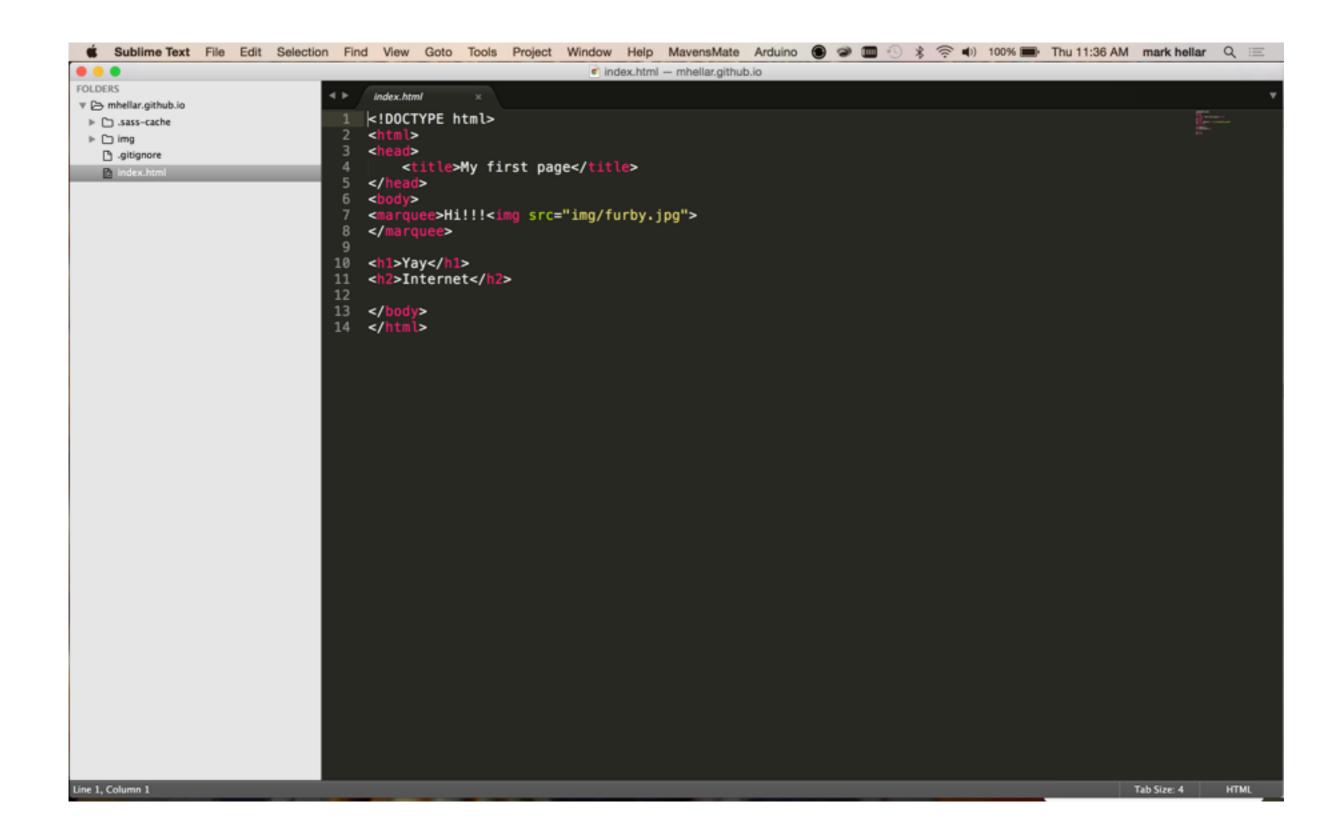
https://www.chromeexperiments.com/

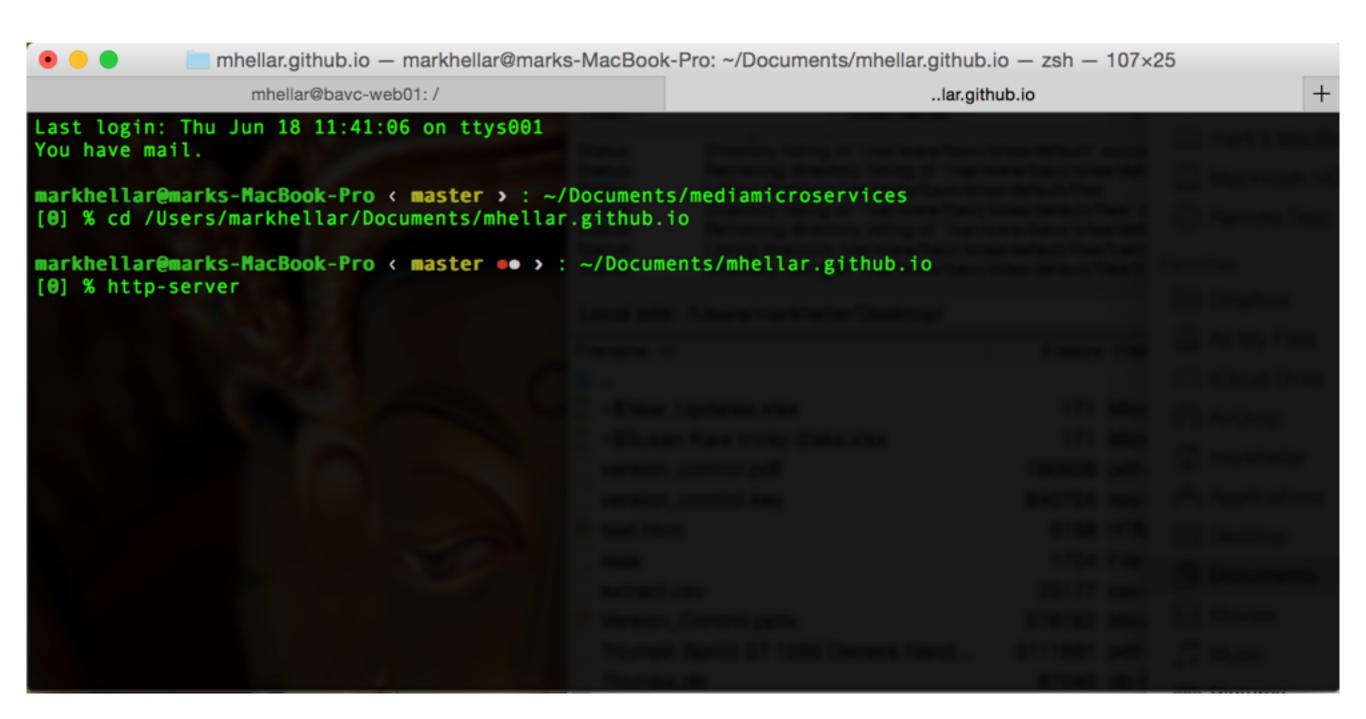
http://threejs.org/

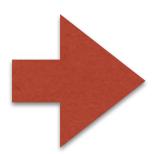
http://processingjs.org/exhibition/

http://www.smashingmagazine.com/









→ C | localhost:8080

Link Example

Headers:

<h1>This is heading 1</h1><h2>This is heading 2</h2><h3>This is heading 3</h3><h4>This is heading 4</h4><h4>This is heading 5</h5><h6>This is heading 6</h6>

This is heading 1

This is heading 2

This is heading 3

This is heading 4

This is heading 5

This is heading 6

Paragraphs:

```
<!DOCTYPE html>
```

- <html>
- <body>

```
This is a paragraph.
```

- This is a paragraph.
- This is a paragraph.

This is a paragraph.

This is a paragraph.

This is a paragraph.

```
</body>
```

</html>

Tables:

50

```
Jill
Smith
50
             Jill Smith
Eve Jackson 94
Eve
Jackson
94
```

Numbered List:

```
<h2>Ordered List</h2>

Coffee
Tea
Milk
```

Ordered List

- 1. Coffee
- 2. Tea
- 3. Milk

Some Common elements:

<!DOCTYPE html>

The standard document type declaration. Must be the first thing in the document.

html

Surrounds all HTML content in a document.

head

The document head contains all metadata about the document, such as its title and any references to external stylesheets and scripts.

title

The title of the document. Browsers typically display this at the top of the browser window and use this title when bookmarking a page.

body

Everything not in the head should go in the body. This is the primary visible content of the page.

h1, h2, h3, h4

These let you specify headings of different levels. h1 is a top-level heading, h2 is below that, and so on.

n

A paragraph!

ul, ol, li

Unordered lists are specified with ul, most often used for bulleted lists. Ordered lists (ol) are often numbered. Both ul and ol should include li elements to specify list items.

ρm

Indicates emphasis. Typically rendered in italics.

strong

Indicates additional emphasis. Typically rendered in boldface.

а

A link. Typically rendered as underlined, blue text, unless otherwise specified.

span

An arbitrary span of text, typically within a larger containing element like p.

div

An arbitrary division within the document. Used for grouping and containing related elements.

All HTML element reference:

https://developer.mozilla.org/en-US/docs/Web/HTML/ Element



SVG

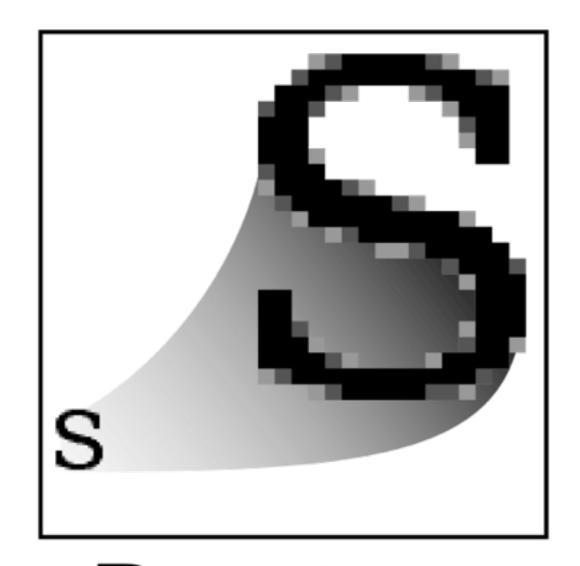
SVG stands for Scalable Vector Graphics

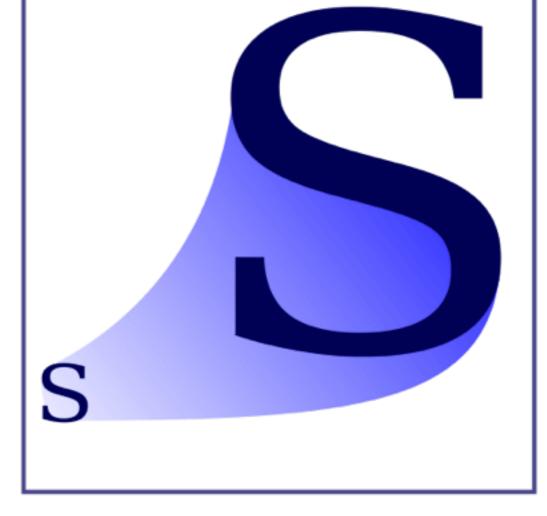
SVG is used to define vector-based graphics for the Web

SVG defines the graphics in XML format

SVG graphics do NOT lose any quality if they are zoomed or resized

Every element and every attribute in SVG files can be animated





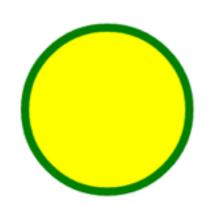
Raster .jpeg .gif .png



SVG: How To Use

```
<!DOCTYPE html>
<html>
<body>
<h1>My first SVG</h1>
<svg width="100" height="100">
<circle cx="50" cy="50" r="40" stroke="green" stroke-width="4" fill="yellow" />
</svg>
</body>
</html>
```

My first SVG



SVG: Text

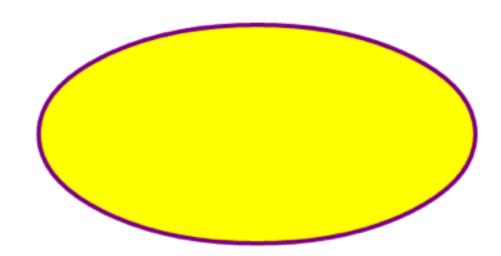
I love SVG!

SVG: Circle

```
<!DOCTYPE html>
<html>
<body>

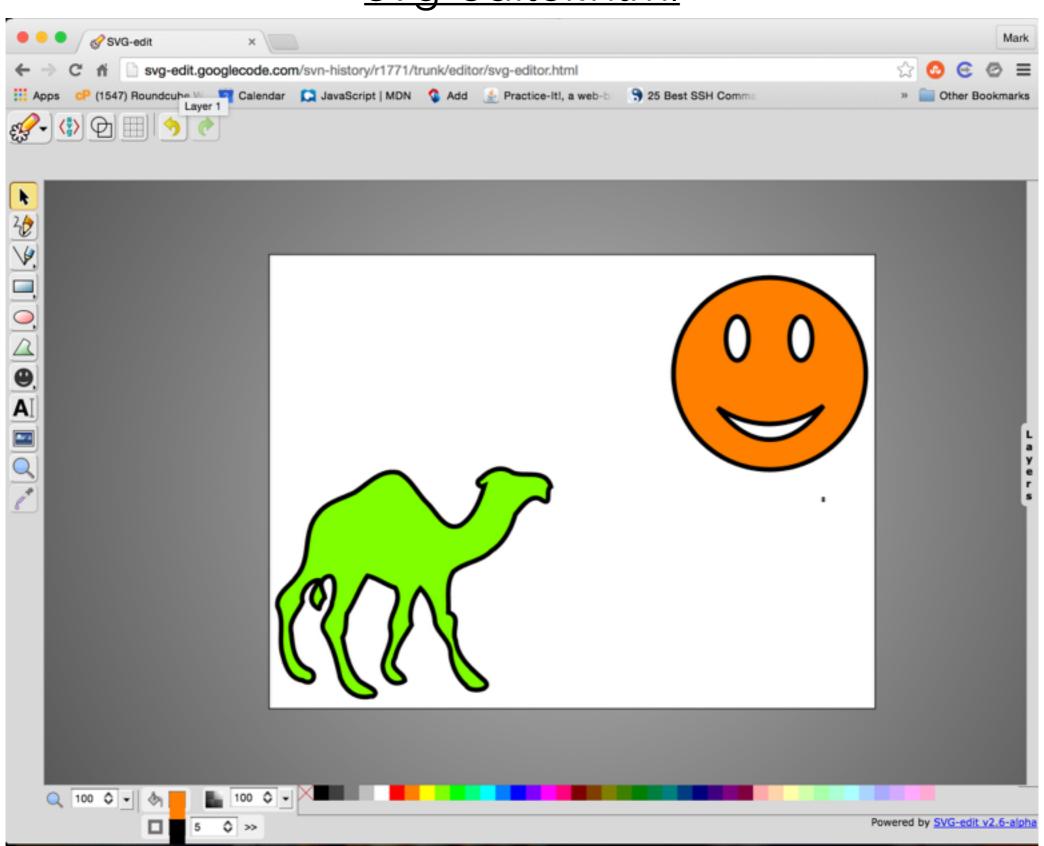
<svg height="140" width="500">
<ellipse cx="200" cy="80" rx="100" ry="50"
style="fill:yellow;stroke:purple;stroke-width:2" />
</svg>

</body>
</html>
```



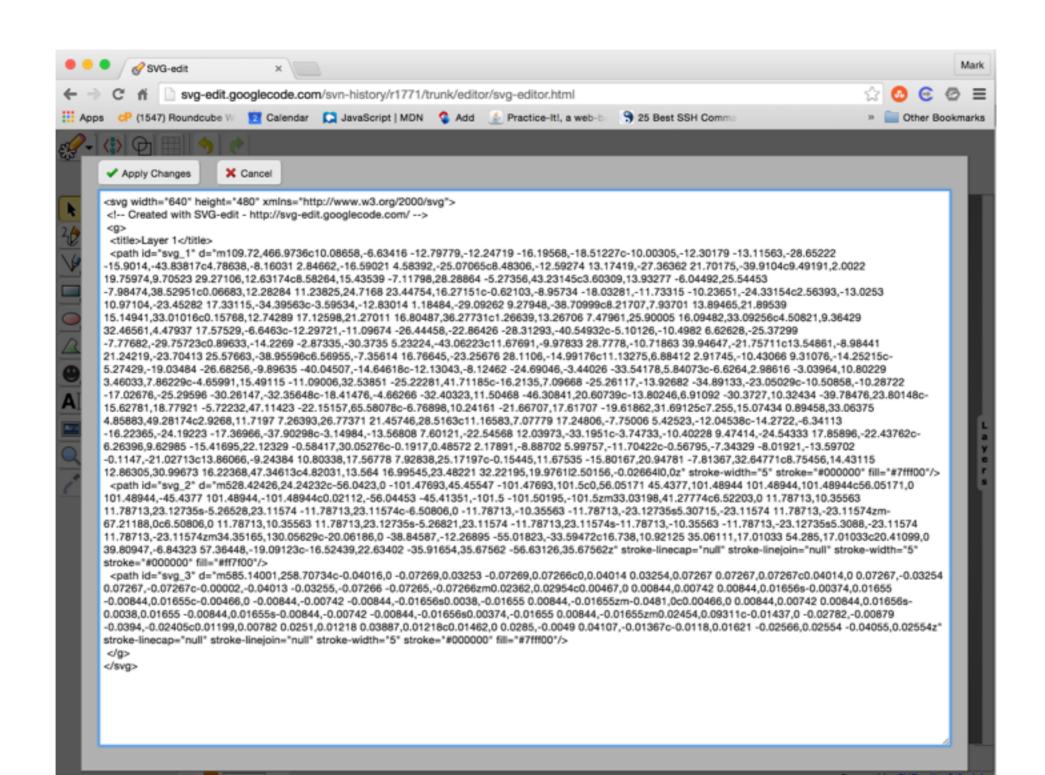
Online SVG Editor:

http://svg-edit.googlecode.com/svn-history/r1771/trunk/editor/svg-editor.html



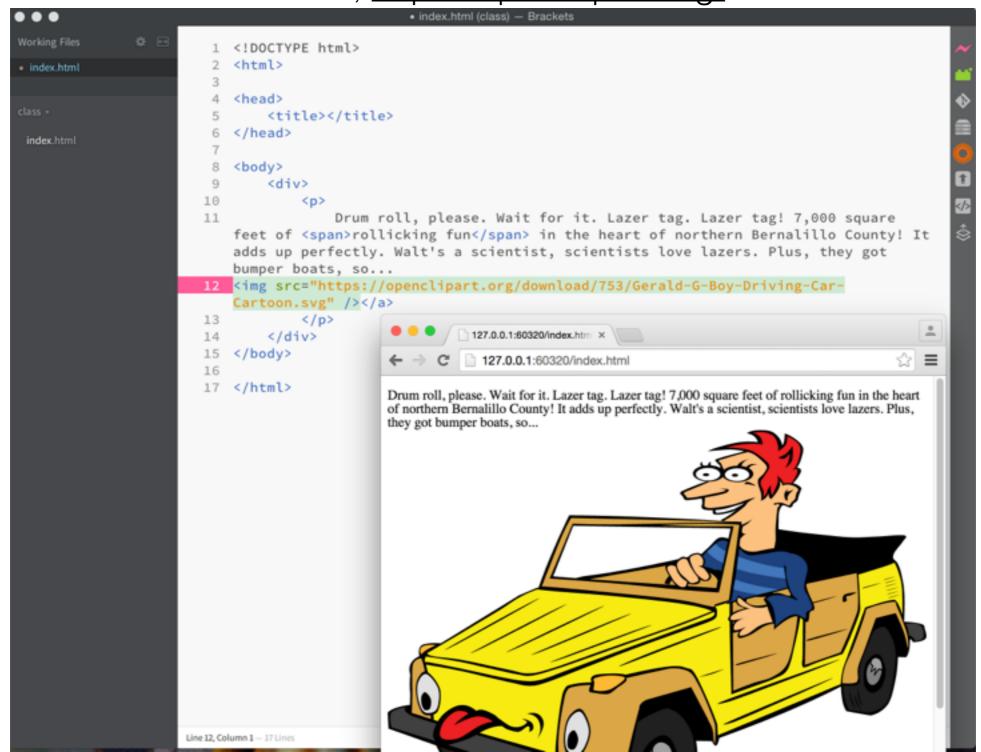
Online SVG Editor:

http://svg-edit.googlecode.com/svn-history/r1771/trunk/editor/svg-editor.html



SVG

you can also embed svg files in an image tag SVG files can be exported from popular programs like Illustrator Also, https://openclipart.org/



Cool SVG Links!

http://whats-svg.com/

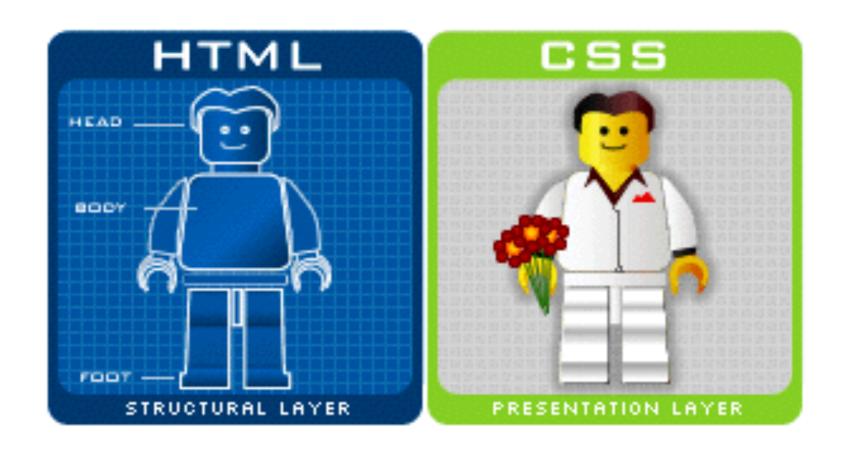
http://www.w3schools.com/svg/svg_examples.asp

https://github.com/willianjusten/awesome-svg

http://upload.wikimedia.org/wikipedia/commons/6/6c/Trajans-Column-lower-animated.svg

http://patrickgarvin.com/blog/?p=1834

https://itunes.apple.com/us/podcast/svg-immersion-anythingeverything/id975438780?mt=2 Assignment, craft a SVG composition and share it with Bl.ock to the group..



It is best to think of web design as three layers of disciplines:

- 1. Content and Structure: HTML
- 2. Visual Style and Presentation: CSS
- 3. Interactivity, Motion and Function: Javascript(next week)

You can say that **HTML** is like building the **structure** of the house, You need to create a skeleton of where everything is going to go.

CSS is the decorating step. Now you're concerned with the **visual style** and how to make things more presentable.

And finally all the other programming languages and "bells and whistles" such as **Javascript**, Flash, video, etc. are like adding the amenities. In web design this means adding **interactivity**—you add cool things like animations, feedback forms, and other useful functions that make your website more complete.

CSS can define these general attributes of HTML tags:

Typography & Lists

▶ font, font size, line spacing, etc. ▶ bullets, spacing

Colors & Ornaments

▶ color, background color, border color, etc. ▶ background images

Positioning & Layout

- block size, width, height
- margin, padding, absolute positioning

Miscellaneous (used or special attributes)

printing instructions, pseudo classes

A few new HTML Tags: <div> and

CSS and other web-centric programing languages have prompted the creation of two new "anonymous" tags: div and span. These tags when used on their own don't modify the content, but when used in conjunction with CSS, can be used as "custom" tags. div is a block level tag, while span is an inline tag.

```
<!DOCTYPE html>
<html>
<head>
    <title></title>
</head>
<body>
    <div>
        >
            Drum roll, please. Wait for it. Lazer tag. Lazer tag! 7,000 square
feet of <span>rollicking fun</span> in the heart of northern Bernalillo County! It
adds up perfectly. Walt's a scientist, scientists love lazers. Plus, they got
bumper boats, so...
        </div>
</body>
</html>
```

A few new HTML Tags: <div> and

div

As stated earlier, use the div tag to define a "chunk" of information. divs are great for delineating sections of your web site.

span

Use span to mark up words or certain portions of text inside of a block level element.

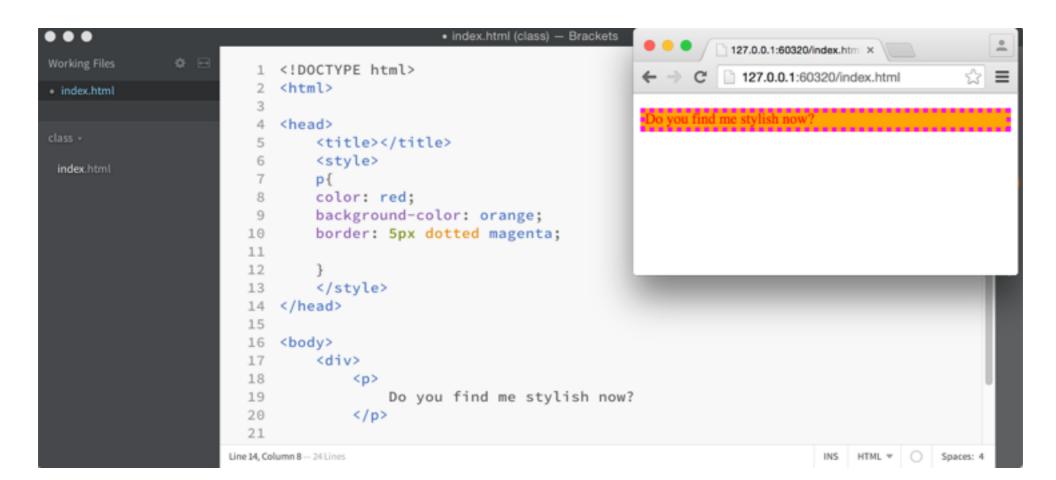
```
<!DOCTYPE html>
<html>
<head>
    <title></title>
</head>
<body>
    <div>
        >
            Drum roll, please. Wait for it. Lazer tag. Lazer tag! 7,000 square
feet of <span>rollicking fun</span> in the heart of northern Bernalillo County! It
adds up perfectly. Walt's a scientist, scientists love lazers. Plus, they got
bumper boats, so...
        </div>
</body>
</html>
```

Anatomy of a CSS Definition

```
selector {
property: value; <- This line is called a rule.
}</pre>
```

This code isn't valid CSS, but the code in red defines the name of the part of the code.

```
•••
                                                                                            127.0.0.1:60320/index.htm ×
Working Files
                           1 <!DOCTYPE html>
                                                                                   ← → C 127.0.0.1:60320/index.html
                           2 <html>
                           3
                                                                                  Do you find me stylish?
                           4 <head>
                                  <title></title>
                           6 </head>
 index.html
                           8 <body>
                                  <div>
                         10
                         11
                                           Do you find me stylish?
                         12
                                      13
                         14 </body>
                         15
                         16 </html>
                       Line 7, Column 1 - 16 Lines
                                                                                                          INS HTML # O Spaces: 4
```



Where does CSS live?

CSS is read by web browsers in the following order: -CSS code added in the HTML document head: <head> <style type="text/css"> h1 { font-size: 24px; } </style> </head> -external style sheet definitions (optimal) <head> <link href="stylesheet.css" rel="stylesheet" type="text/css"> </head> -inline styles <body> <h1 style="font-size: 24px">heading</h1> </body>

Where does CSS live?





Naming your elements:

Naming your elements

Any tag in HTML can be given a name or "identifier." This is useful in defining custom tags or pointing to a specific default element. There are two ways to name or identify an element:

- ▶ id
- ▶ class

In this example, div is given an id of "section", while p is given a class of "special." Think of these as just names.

Naming your elements:

Naming tips

- id and class names can contain letters, numbers and dashes only
- names are case-sensitive
- names cannot start with a number or dash
- ▶ pick names that specify the function of the tag, not the visual presentation (i.e., "important" is a better name than "red")

Difference between id and class

Quick explanation: Use id to name an element that is used only once on a web page. Use class to name an element that may be used more than once on a web page.

Referencing ids and classes in CSS

▶ use # (number sign) to identify an id ▶ use . (dot) to identify a class

Naming your elements:

CSS code example

<style>

(referring to last HTML example)

```
div#section {
     border: 1px solid #ddd;
     padding: 12px;
     margin-left: 32px;
p.special {
     font-size: 48px;
color: red; }
</style>
<div id="section">
     Hi There!!
</div>
```

CSS Reference:

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

http://www.smashingmagazine.com/wp-content/uploads/images/css3-cheat-sheet/css3-cheat-sheet.pdf

Cascading Style Sheets(CSS) a few to get you started

CSS Rules: Typography & Lists

```
Typography
font-family
{ font-family: Verdana, 'Trebuchet MS', Arial, sans-serif; }
font-size
{ font-size: 18px; }
letter spacing / word spacing
{ letter-spacing: 2px; word-spacing: 14px; }
line-height / text transform
{ line-spacing: 5em; text-transform: uppercase; }
Lists
list-style-type
{ list-style-type: disc; }
margin / padding
{ margin; 0; padding: 0; }
text-indent
{ text-indent; 12px; }
```

Cascading Style Sheets(CSS) a few to get you started

CSS Rules: Colors & Ornaments

```
Colors
color
{ color: #e0e }
background-color
{ background-color: #f0e; }
background-image
{ background-image: url('images/image.jpg'); }
Ornaments
border-size
{ border: 1px; }
border-style
{ border-style: dotted; }
border-color
{ border-color: red; }
border
{ border: 1px solid #ddd; }
```

Cascading Style Sheets(CSS) a few to get you started

CSS Rules: Miscellaneous

```
cursor
{ cursor: crosshair; }
text-shadow
{ text-shadow: black, 3px 3px; }
visibility
{ visibility: none; }
```

Advanced Selectors

comma

```
h1, h2, h3 { color: red; }
spaces
div#main h1 { color: blue; }
pseudo-selectors
a:hover { color: #ddd; }
```

http://www.cheetyr.com/css-selectors

Wow CSS!

http://pattle.github.io/simpsons-in-css/

http://cssdeck.com/labs/minions-css

http://bennettfeely.com/csscreatures/

http://www.inserthtml.com/2012/06/css-filters/

http://www.clicktorelease.com/code/css3dclouds/

http://anthonycalzadilla.com/css3-ATAT/index.html

https://github.com/ikkou/awesome-css

CSS Animations:

http://www.w3schools.com/css/css3_animations.asp

```
/* The animation code */
@keyframes example {
  from {background-color: red;}
  to {background-color: yellow;}
/* The element to apply the animation to */
div {
  width: 100px;
  height: 100px;
  background-color: red;
  animation-name: example;
  animation-duration: 4s;
```

CSS Animations:

http://www.w3schools.com/css/css3_animations.asp

```
/* The animation code */
@keyframes example {
  0% {background-color: red; left:0px; top:0px;}
  25% {background-color: yellow; left:200px; top:0px;}
  50% {background-color: blue; left:200px; top:200px;}
  75% {background-color: green; left:0px; top:200px;}
  100% {background-color: red; left:0px; top:0px;}
/* The element to apply the animation to */
div {
  width: 100px;
  height: 100px;
  position: relative;
  background-color: red;
  animation-name: example;
  animation-duration: 4s;
```

Code Playgrounds

http://jsfiddle.net/

http://codepen.io/

http://cssdeck.com/

http://dabblet.com/

http://liveweave.com/

Cascading Style Sheets(CSS)

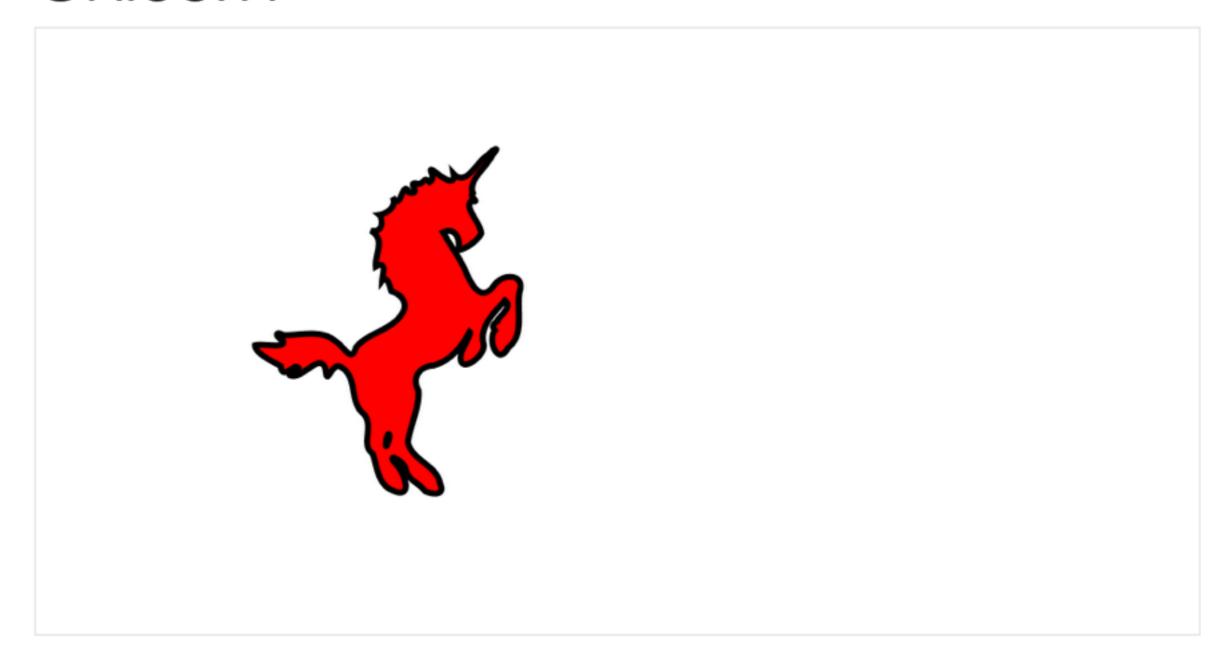
Syntax tips

- start with the element (tag) you will define, followed by opening and closing brackets
- within the brackets, end each definition with a semi-colon
- ► CSS is read from top to bottom if you re-define an element twice, the last read definition will be applied, and the first will be ignored
- comments can be added by using /* */ tags comments are helpful if collaborating with other designers and when looking at old code
- Be consistent with your coding habits

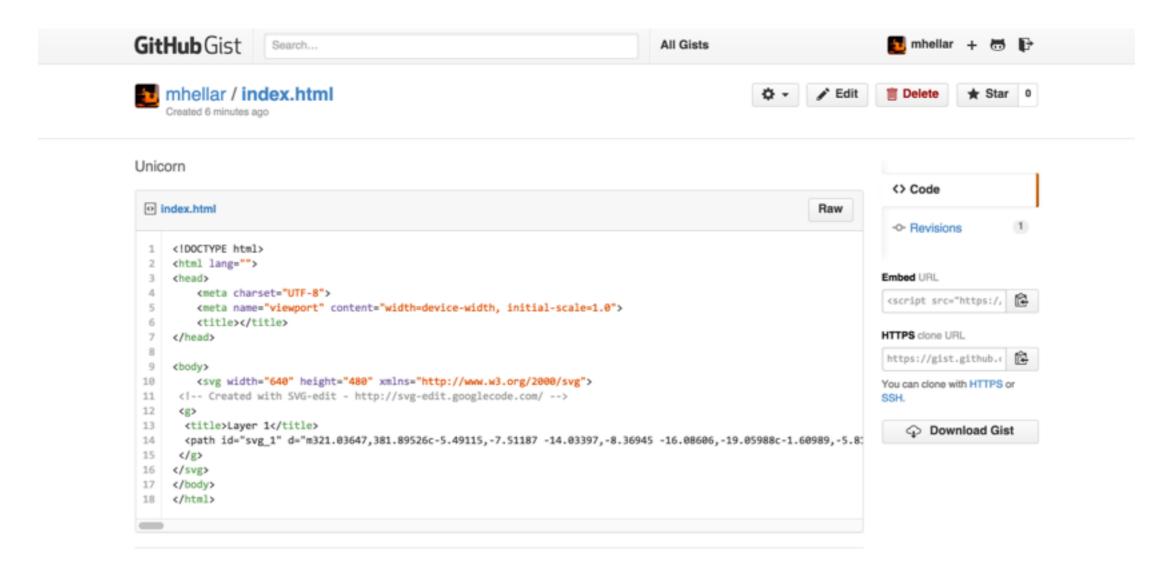
Sharing Your Work with Gists and Blocks

mhellar's block #e5bfecaf53471bb69fdf April 7, 2015

Unicorn



Sharing Your Work with Gists and Blocks



- 1 Go to https://gist.github.com/
- 2 Enter a description, name the file index.html and paste the code you want to share

Sharing Your Work with Gists and Blocks

You will get a URL like this:

https://gist.github.com/mhellar/e5bfecaf53471bb69fdf

Replace gist.github.com with this <u>bl.ocks.org</u> http://bl.ocks.org/mhellar/e5bfecaf53471bb69fdf

Tada!!!!!

mhellar's block #e5bfecaf53471bb69fdf April 7, 2015

Unicorn

