<h1>WEB DESIGN CRASH COURSE</h1>

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SETUP

For today's workshop, you will need:

TEXT EDITOR I suggest Sublime Text (free), but you can also use Text Wrangler (also

free), or the built-in text editor on your computer (Text Edit for Mac users,

Notepad for Windows)

BROWSER The program you view websites in! Firefox will be used in this demo

because it has some very useful developer features, but you should

really be testing your sites on all current browsers.

EXAMPLES Today, rather than type along, we'll be using example files found here:

http://www.github.com/jeffthompson/webdesignexamples

TERMINOLOGY

HTML The "nouns" of the web – things like paragraphs and images. HTML

elements are called "tags", denoted by < >.

CSS Styles apply to elements across your site – they form the adjectives to

HTML nouns, setting things from color, size, and placement of elements, as well as fancier things like animations and transitions (which we won't

cover today).

PHP A server-side scripting language to create dynamic HTML pages. Takes

a bit of getting used to, but is very powerful (especially for larger, more

complex sites).

JAVASCRIPT A client-side scripting language for everything from basic user interaction

to dynamic content like animated transitions and full-on videogames!

Often extended with the popular <u>JQuery</u> library.

SERVER The hard-drive that stores and "serves" your website's files to visitors.

This is often called "hosting" – I suggest using 1 and 1 or GoDaddy.

DOMAIN NAME The address to your site (like amazon.com) – this is essentially "rented"

on a yearly basis (usually about \$15/year from your hosting provider).

COLOR

There are several ways of defining color in websites – the two easiest to learn are:

COLOR NAMES

Basic, built-in colors can be used by name, such as:

```
white, black, red, blue, aqua, darkslateblue, lavenderblush, snow
```

See this page for a full listing: http://www.w3schools.com/html/html_colornames.asp

RGB VALUES

Red, green, and blue (RGB) can be mixed to create all the colors; values are between 0 (no color) – 255 (full amount). For example:

```
white rgb(255,255,255) black rgb(0,0,0) red rgb(0,0,0) yellow rgb(255,255,0)
```

BASIC PAGE STRUCTURE

There are a few basic things a web page must have in order to work:

```
<!DOCTYPE html>
<html>
    <head>
        <title>This is my awesome website</title>
        </head>

<body>
        <!-- this where your page content goes! -->
        Welcome to my new website.
        </body>
    </html>
```

Note that HTML tags have an opening and closing tag. For more details, see the example files.

CSS STYLES

Styles separate content (the HTML) from its visual presentation, making updates to your site easier and more flexible. They can be applied to:

```
HTML ELEMENTS
Tags like paragraphs (right),
images, links, etc

IDs
Unique items on the page, given
name and noted by a "#" in CSS

p {
    font-size: 12px;
}

#blog-post {
    color: rgb(255,0,0);
}
```

```
CLASSES .thumbnails {
Items used multiple times on a page and noted by a "."

.thumbnails {
    width: 250px;
}
```

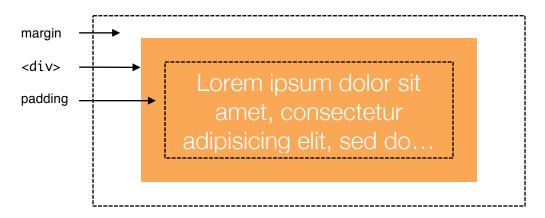
SOME COMMON CSS PROPERTIES

While certainly nowhere near exhaustive, here are some common properties:

background	color or image	width/height	defines size of elements
font-family	font to use	text-align	left, center, right, justify
font-size	in pixels or ems	border	around an element
color	font color	text- decoration	underline, none, etc – mostly used for links

CSS BOX MODEL

In CSS, we define the spacing through **margins** (space around an element) and **padding** (space inside an element). For example, if the orange box below is a <div> tag with text inside...



PADDING Space **inside** an item – here it is 10px on all sides

MARGIN Space around the **outside** of an item – here it is 20px on the sides, but 10px on the top and bottom

The resulting style...

Margins can also be set to auto, which is used to center elements:

margin: 5px auto 10px auto; /* auto on L/R centers the element */

See the example files for more details!

IMAGES

Text-based sites are SOOO 1995...

FILE FORMATS

Use compressed formats such as jpg, png, or gif

FILE SIZE Small file size is very important! Shoot for 300–500kb. In order to

get your files small enough, see the two parameters below.

RESOLUTION Most monitors can only display 72 pixels-per-inch (ppi), so

resizing your images to that resolution is important for creating

smaller files. Use Photoshop's Image > Image Size...

DIMENSIONS We've been measuring most layout elements by pixels, so

resizing your images to be no larger than necessary will help reduce file size. If your <div> is 700px wide, make your images

the same.

COMPRESS! If possible, save your images using Photoshop's File > Save

for Web... option to compress your images.

FURTHER RESOURCES

THE INTERNET! Seriously. Google is your best friend. Also...

W3 SCHOOLS Run by the authority that sets web standards.

http://www.w3schools.com

STACK OVERFLOW A site for questions-and-answers relating to all things code.

http://stackoverflow.com

VISUAL QUICKSTART

SERIES

This series by Peachpit Press is excellent without being too

beginner-focused – I suggest their title <u>HTML And CSS</u> as a good reference. Many of these are available online through the

Stevens Library.

http://www.peachpit.com/imprint/series_detail.aspx?ser=335245

FIND SOME OTHERS? Let me know and I'll add them to this list!