# HTML, CSS, & Fundamentals of Development

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#### Week 2

- Review
- What is CSS?
- CSS Syntax
- CSS Properties
- Using Web Fonts
- Browser Developer Tools
- Getting on the Web

## HTML Review

### HTML Tags

```
Some content
<em>Some</em> content
<u1>
  Item 1
  Item 2
```

#### HTML Attributes

```
<a>Non-working link</a>
<a href="page2.html">Great!</a>
```

>

## HTML Tags

```
<h1> <strong>  <h2> <em> <col> <cl> <h3> <a href="""> <
```

<img src="">

### Comment tag

<!-- This is a comment -->

# Indenting HTML

```
<html>
<body>
<h3>
Example</h3>
Item 1
Item 2

</body>
</html>
```

# Indenting HTML

```
<html>
<body>
<h3>
Example</h3>
Item 1
Item 2

</body>
</html>
```

# Indenting HTML

```
<html>
<body>
<h3>Example</h3>

Item 1
Item 2
</body>
</html>
```

# Naming Your Files

- Lowercase, no spaces, dashes
- Your main HTML file should be called index.html

# What is CSS?

### What CSS Does

Defines rules for the presentation of your website

#### What CSS Does

Defines rules for the presentation of your website

- Typography
- Color
- Borders
- Backgrounds

- Alignment
- Positioning
- Spacing
- Transparency

#### What is CSS?

### CSS File

```
<!DOCTYPE html>
<html>
<head>
    <title>My Page</title>
</head>
<body>
    Hello World!
</body>
</html>

HTML
```

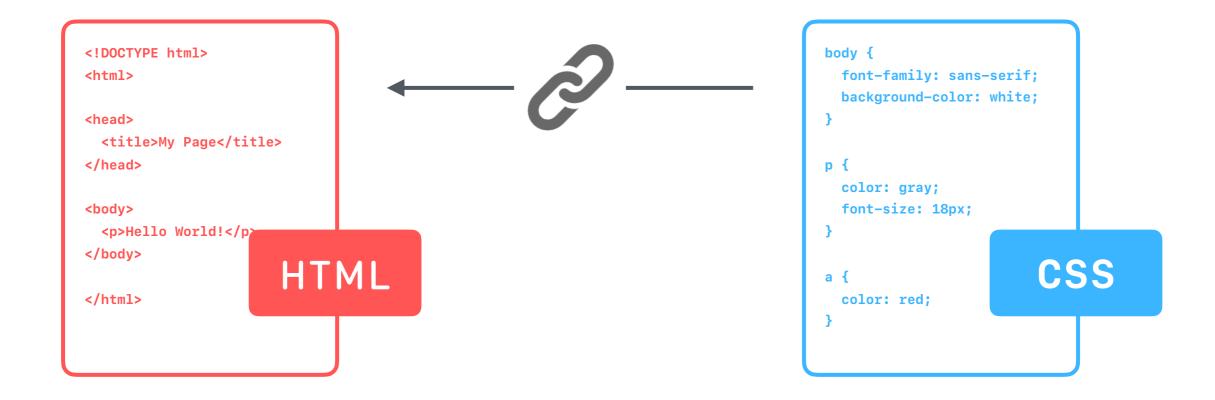
```
body {
  font-family: sans-serif;
  background-color: white;
}

p {
  color: gray;
  font-size: 18px;
}

a {
  color: red;
}
CSS
```

#### What is CSS?

### CSS File



rel="stylesheet" href="style.css">

# CSS Syntax

```
h1 {
    font-size: 32px;
body {
    background-color: black;
    font-family: serif;
    color: white;
```

#### **CSS Syntax**

```
selector {
   property: value;
}
```

```
selector {
   property: value;
}
```

The selector chooses which HTML element to style

#### **CSS Syntax**

```
h1 {
    property: value;
}

strong {
    property: value;
}
```

```
CSS Syntax
```

```
selector {
    property: value;
}
```

A property is the style attribute we want to change

#### **CSS Syntax**

```
selector {
    font-size: value;
    color: value;
    background-color: value;
    margin-bottom: value;
}
```

```
CSS Syntax
```

```
selector {
   property: value;
}
```

A value defines what the property should be changed to

#### CSS Syntax

```
selector {
    font-size: 12px;
    color: blue;
    background-color: white;
    margin-bottom: 20px;
}
```

#### CSS Syntax

```
selector {
    property: value;
selector {
    property: value;
    property: value;
    property: value;
```

```
h1 {
    font-size: 32px;
body {
    background-color: black;
    font-family: serif;
    color: white;
```

### Linking CSS to your HTML

# CSS Properties

## Properties

- There are LOTS of them! Keep a reference handy.
- Always lowercase, with hyphens between words
  - e.g., font-size, margin-top

### font-size

```
font-size: 12px;
font-size: 12;
h1 {
   font-size: 32px;
}
```

### font-family

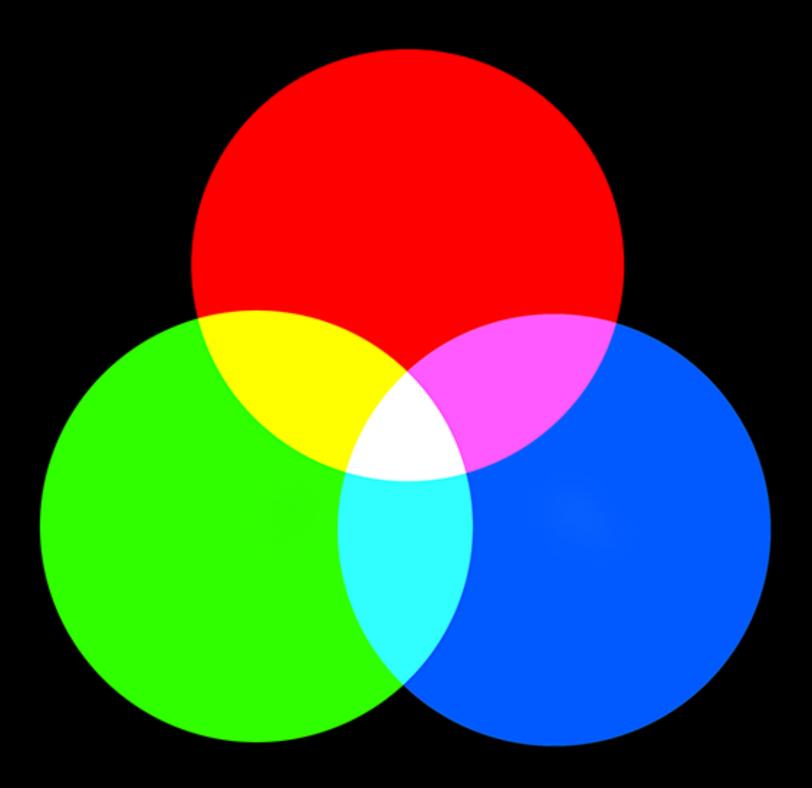
```
font-family: Georgia, serif;
font-family: Helvetica, sans-serif;
font-family: "Courier New", monospace;

p {
    font-family: Georgia, serif;
}
```

### color

```
color: blue;
color: #0000ff;
color: rgb(0, 0, 255);
strong {
    color: #ccff00;
}
```

#### **Additive Color**



#### **Additive Color**

| Name          | Hex     | RGB              |
|---------------|---------|------------------|
| red           | #FF0000 | rgb(255, 0, 0)   |
| green         | #00FF00 | rgb(0, 255, 0)   |
| blue          | #0000FF | rgb(0, 0, 255)   |
| cyan          | #00FFFF | rgb(0, 255, 255) |
| magenta       | #FF00FF | rgb(255, 0, 255) |
| <b>yellow</b> | #FFFF00 | rgb(255, 255, 0) |

#### **Additive Color**

| Name  | Hex     | RGB                |
|-------|---------|--------------------|
| black | #000000 | rgb(0, 0, 0)       |
|       | #333333 | rgb(51, 51, 51)    |
|       | #666666 | rgb(102, 102, 102) |
|       | #999999 | rgb(153, 153, 153) |
|       | #CCCCCC | rgb(204, 204, 204) |
| white | #FFFFFF | rgb(255, 255, 255) |

#### **CSS Properties**

text-decoration

**Typography** Sizing width color height font-family font-size line-height **★** background-size Spacing letter-spacing ★ margin **★** padding font-style font-weight text-align text-transform

Backgrounds Special Selectors

**★** background-image :hover

:active

**Borders** 

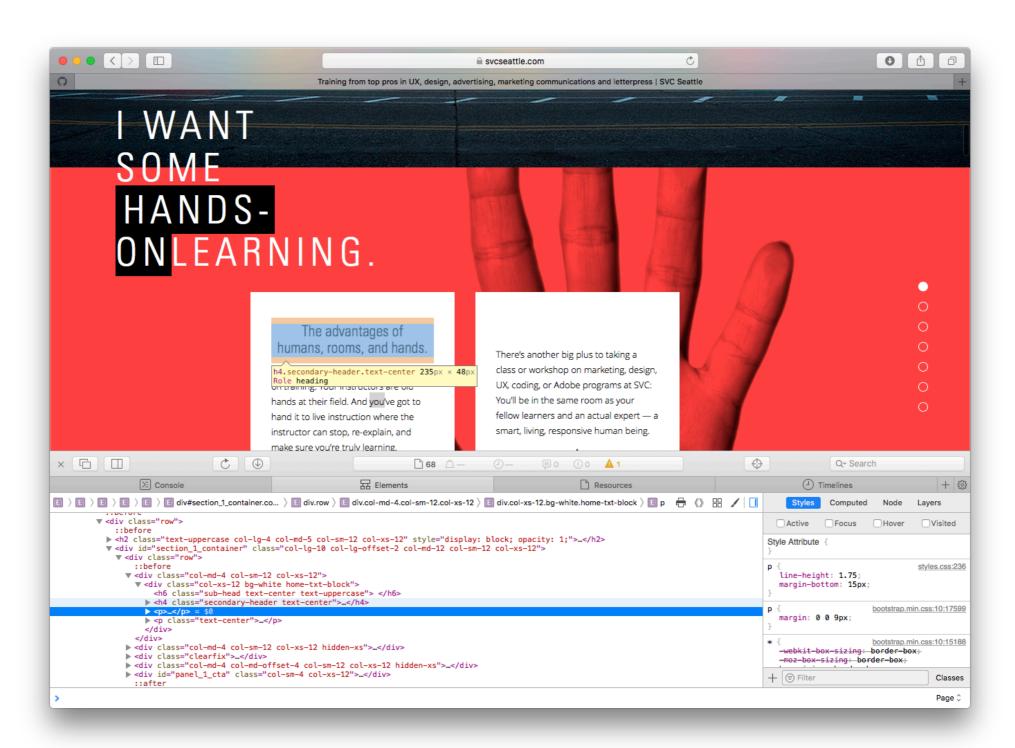
★ border border-radius

background-color

background-repeat

# Browser Developer Tools

#### Browser Developer Tools



#### Browser Developer Tools



- Right click > Inspect
- View > Developer > Developer Tools
- **I** / **3 3**



Preferences... > Advanced > Show Develop Menu

- Right click > Inspect Element
- Develop > Show Web Inspector
- **I** / **3 3 3**



F12

#### Useful features

- View the source of any webpage
- Tweak CSS rules of specific elements
- See the assets loaded from a page
- Test a website at different device sizes

Browser Developer Tools

## More info...

- Safari Web Inspector
- Google Chrome DevTools
- Microsoft Edge Developer Tools

# Using Web Fonts

## What are Web Fonts?

Web fonts are fonts you can use on your websites that are stored on the internet.

Because they're stored on the internet, visitors don't have to have the font installed on their computers to see them.

## What are Web Fonts?

Note: you must be connected to the internet for the fonts to show up.

#### Web Font Resources

For this class we will use Google Fonts, available at <a href="http://fonts.google.com/">http://fonts.google.com/</a>, as all the fonts are free!

Other paid resources include <u>TypeKit</u> and <u>Typography.com</u>.

## Using Google Fonts

1. Find the font(s) you want to use, and add with the plus button

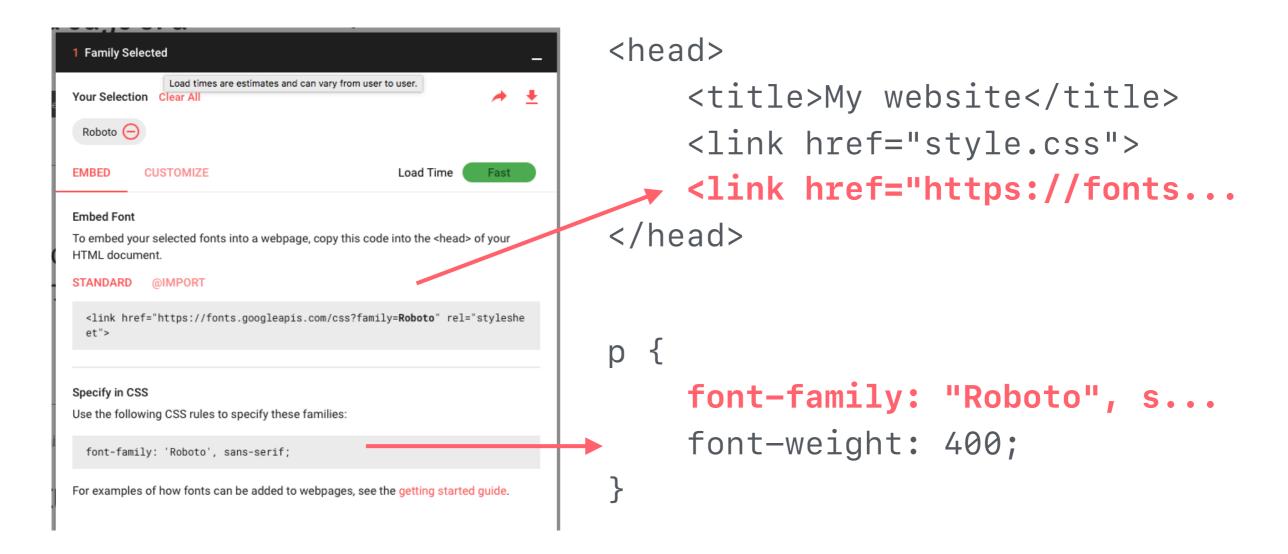


All their equipment and instruments are alive.

#### **Using Web Fonts**

# Using Google Fonts

2. Use the panel at the bottom of the page to get the HTML & CSS



## What is the Web?

A bunch of connected computers that have websites on them.

A server is a computer that is "serving" the websites to other computers.

## What is the Web?

To get your website on the internet, you need to upload it to a server computer.

## Web Hosting vs Domains

Web Hosting is the file space used to store your website files on a server

A Domain is the address for accessing those website files on the web

## Web Hosting vs Domains

Cheap web hosting costs about \$5/mo

A cheap domain name costs about \$5/yr

## Web Hosting

Almost all cheap hosting companies are owned by the same company: EIG.



#### Domain names

Once you register a domain name, it is yours for as long as you keep renewing it!

Go get a cool domain name!

## Domain names

There are now hundreds of TLDs (the part of the domain after the dot):

mycooldomain.com
mycooldomain.website
mycooldomain.pizza
mycooldomain.io

#### FTP

File Transfer Protocol is used to transfer files between your computer and your web hosting server.

You can use an FTP application to make this process nice and easy.

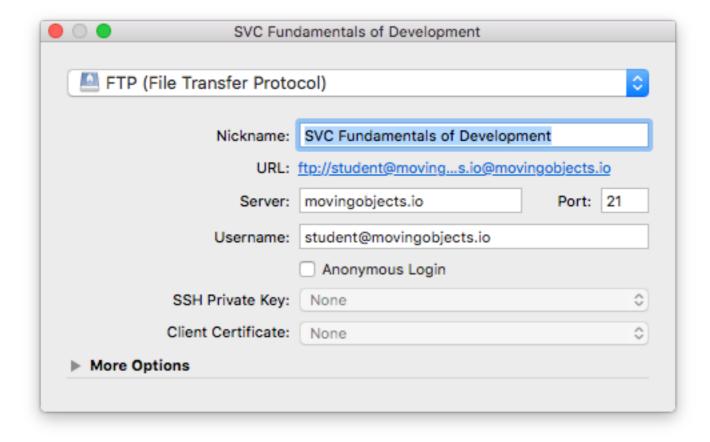
## Cyberduck

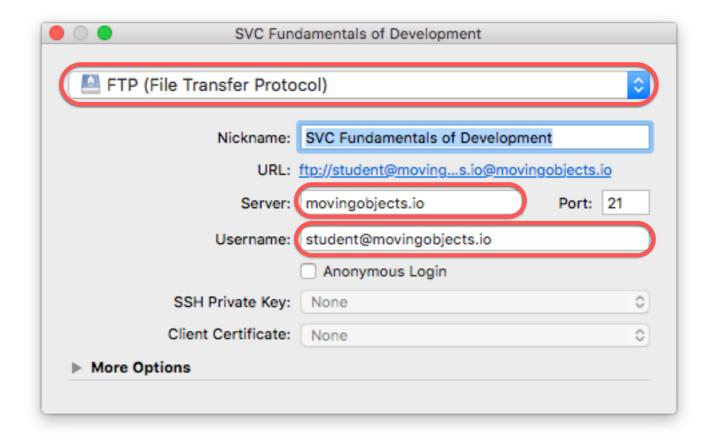
Cyberduck is a free FTP application available at <a href="http://cyberduck.io">http://cyberduck.io</a>.

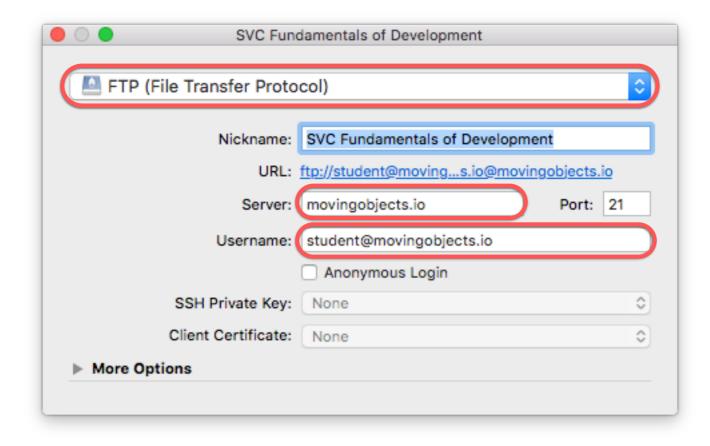


## Info you need to upload

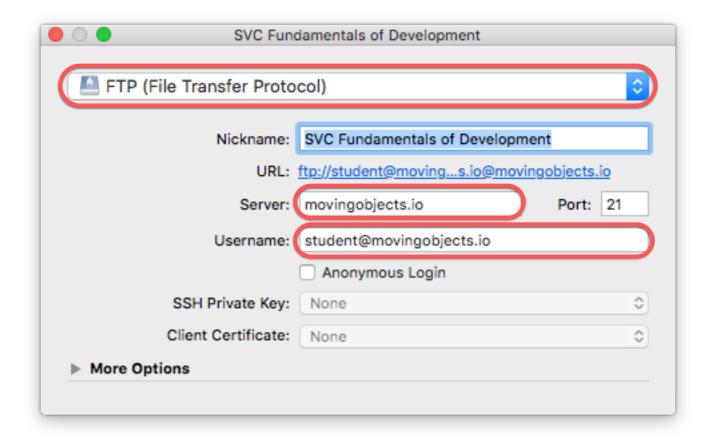
- Protocol (typically FTP or SFTP)
- Server address
- Username & password







What you upload here shows up at: http://movingobjects.io/svc/students/...



What you upload here shows up at: http://movingobjects.io/svc/students/...

# Uploading Strategies

When you've logged in, the file folder you see is just a folder on another computer that you can drag files into.

# Uploading Strategies

Always keep your original web files on your own computer.

Think of your web files only as a COPY of these original files.

# Uploading Strategies

Double check folder and file names:

- lowercase
- no spaces
- no special characters

#### Other relevant services



CODEPEN

Code sharing and version control

Code snippet sharing

## Homework

# Adding Some Style

Use CSS to style up your Favorite Animal Website

## Adding Some Style

- Use the link> tag to link your CSS file (named style.css) to all pages of your website
- Use the CSS properties we covered in class to style all the elements of the page, including the <body> element.

## Adding Some Style

 Upload your site to <u>your own folder</u> on the class website using provided FTP credentials

e.g.,

http://movingobjects.io/svc/students/scott/

## EXTRA: Two styles

 Make a copy of your project folder, and try adding a completely unique style to your site, but without altering the HTML in any way

#### Recommended Resource

 Go through the <u>Khan Academy Intro to</u> <u>CSS</u> tutorial for review and to get a preview of the topics we'll be covering next week

## Questions? Comments?

Visit <a href="http://movingobjects.io/svc">http://movingobjects.io/svc</a> for class slides, code samples, resources

Email me: <u>scott@movingobjects.io</u>