

# Intro to HTML + CSS

School of Visual Concepts  
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# Week 2

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

# HTML Review

# HTML Tags

```
<p>Some content</p>
```

```
<p><em>Some</em> content</p>
```

```
<ul>
```

```
  <li>Item 1</li>
```

```
  <li>Item 2</li>
```

```
</ul>
```

# HTML Attributes

`<a>Non-working link</a>`

`<a href="page2.html">Great!</a>`

# HTML Tags

`<h1>`

`<h2>`

`<h3>`

`<p>`

`<strong>`

`<em>`

`<a href="">`

`<img src="">`

`<u1>`

`<ol>`

`<li>`

## HTML Review

# Comment tag

```
<!-- This is a comment -->
```

## HTML Review

# Indenting HTML

```
<html>
```

```
<body>
```

```
    <h3>
```

```
Example</h3>
```

```
    <ul><li>Item 1</li>
```

```
        <li>Item 2</li>
```

```
    </ul>
```

```
    </body>
```

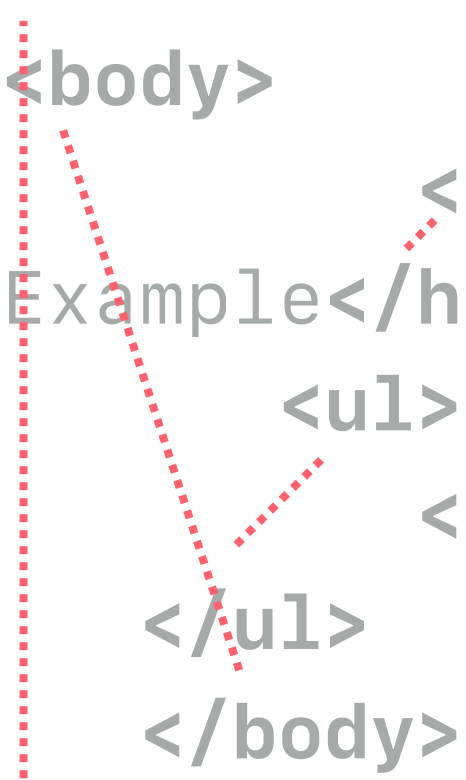
```
</html>
```



## HTML Review

# Indenting HTML

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

A diagram illustrating HTML indentation. A vertical red dotted line is positioned to the left of the opening <body> tag. A diagonal red dotted line extends from the opening <body> tag to the right, passing through the closing </body> tag. Another diagonal red dotted line extends from the opening <h3> tag to the right, passing through the closing </h3> tag. A third diagonal red dotted line extends from the opening <ul> tag to the right, passing through the closing </ul> tag. These lines visually represent the nesting and indentation of the HTML elements.

# Indenting HTML

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

# Naming Your Files

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

**What  
is CSS?**

What is CSS?

# Before CSS

```
<p width="300" bgcolor="yellow">  
  <center>  
    <font color="red" size="32">  
      Some content  
    </font>  
  </center>  
</p>  
<br>  
<br>
```

What is CSS?

# After CSS

`<p>Some content</p>`

What is CSS?

# Cascading Style Sheets

Defines rules for the presentation  
of your website

What is CSS?

# Cascading Style Sheets

Defines rules for the presentation  
of your website

The collection of those style rules is called  
the style sheet



What is CSS?

# Cascading Style Sheets

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>
  <p>Hello World!</p>
</body>

</html>
```

HTML

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

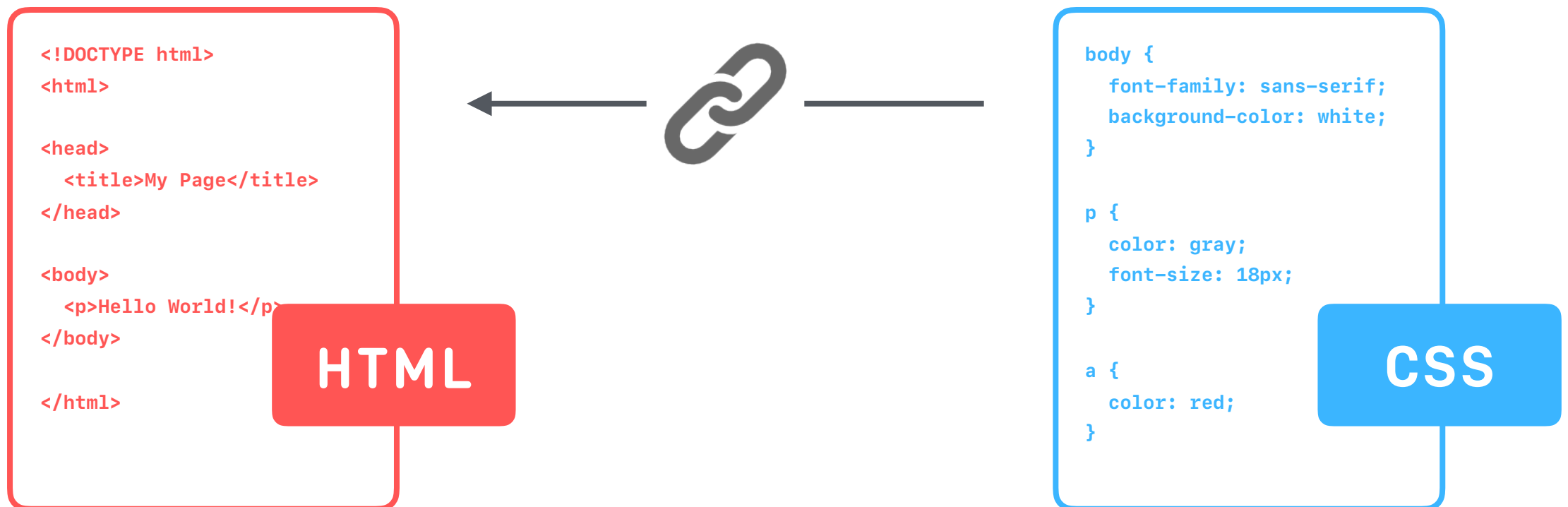
p {
  color: gray;
  font-size: 18px;
}

a {
  color: red;
}
```

CSS

What is CSS?

# CSS File



**<link rel="stylesheet" href="style.css">**

# CSS Syntax

## CSS Syntax

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

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

## CSS Syntax

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

## CSS Syntax

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

The **selector** chooses which HTML elements to style

## CSS Syntax

```
h1 {  
    property: value;  
}
```

```
strong {  
    property: value;  
}
```



## CSS Syntax

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

The **style rules** (inside the curly braces)  
are made up of **properties** and **values**

## 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;  
}
```

## CSS Syntax

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

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

## CSS Syntax

# Linking CSS to your HTML

```
<head>  
  <meta charset="utf-8">  
  <title>My website</title>  
  <link rel="stylesheet" href="style.css">  
</head>
```

# CSS Properties

# Properties

- There are lots of properties!
- And each has its own way it's used

So, keep a reference handy!

## CSS Properties

# color

```
color: blue;
```

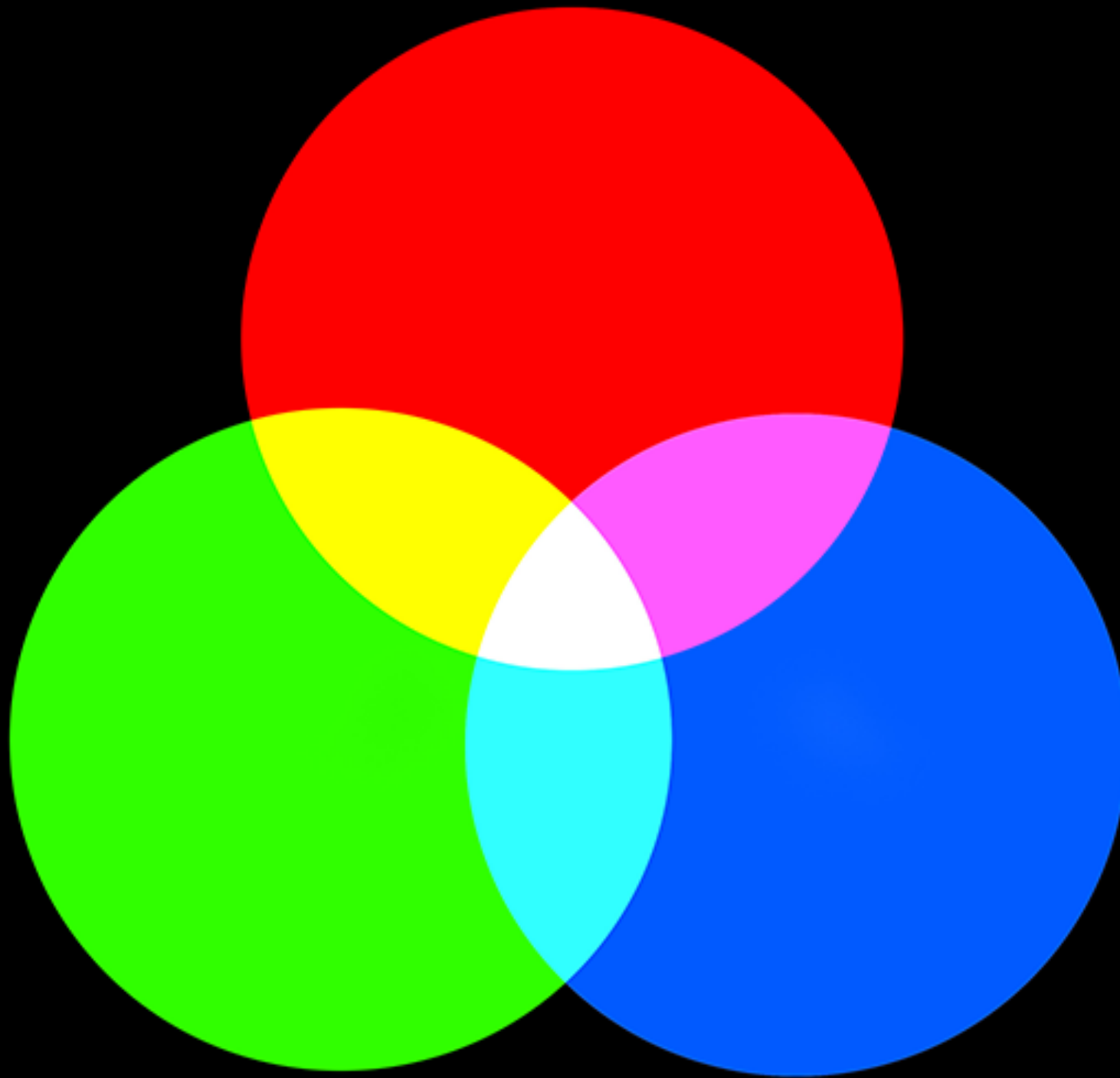
```
color: #0000ff;
```

```
color: rgb(0, 0, 255);
```

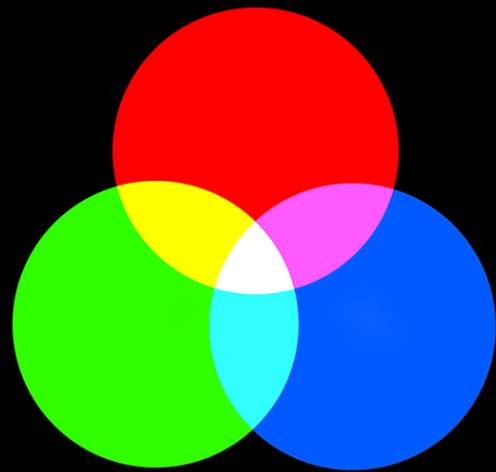
```
strong {  
    color: #ccff00;  
}
```



# 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)
yellow	#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

# background-color

```
background-color: blue;
```

```
background-color: #0000ff;
```

```
background-color: rgb(0, 0, 255);
```

```
body {  
    background-color: #ccff00;  
}
```

## CSS Properties

# font-size

~~font-size: 12;~~

font-size: 12px;

font-size: 1em;

```
h1 {  
    font-size: 60px;  
}
```

## CSS Properties

# font-family

**font-family:** Georgia, serif;

**font-family:** Helvetica, sans-serif;

**font-family:** "Courier New", monospace;

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

# CSS Properties

align-content align-items align-self all animation animation-delay animation-direction animation-duration animation-fill-mode animation-iteration-count animation-name animation-play-state animation-timing-function backface-visibility background background-attachment background-blend-mode background-clip background-color background-image background-origin background-position background-repeat background-size block-size border border-block border-block-color border-block-end border-block-end-color border-block-end-style border-block-end-width border-block-start border-block-start-color border-block-start-style border-block-start-width border-block-style border-block-width border-bottom border-bottom-color border-bottom-left-radius border-bottom-right-radius border-bottom-style border-bottom-width border-collapse border-color border-end-end-radius border-end-start-radius border-image border-image-outset border-image-repeat border-image-slice border-image-source border-image-width border-inline border-inline-color border-inline-end border-inline-end-color border-inline-end-style border-inline-end-width border-inline-start border-inline-start-color border-inline-start-style border-inline-start-width border-inline-style border-inline-width border-left border-left-color border-left-style border-left-width border-radius border-right border-right-color border-right-style border-right-width border-spacing border-start-end-radius border-start-start-radius border-style border-top border-top-color border-top-left-radius border-top-right-radius border-top-style border-top-width border-width bottom box-decoration-break box-shadow box-sizing break-after break-before break-inside caption-side caret-color ch clear clip clip-path cm color color-adjust column-count column-fill column-gap column-rule column-rule-color column-rule-style column-rule-width column-span column-width columns content counter-increment counter-reset cursor deg direction display dpcm dpi dppx em empty-cells ex filter flex flex-basis flex-direction flex-flow flex-grow flex-shrink flex-wrap float font font-family font-feature-settings font-kerning font-language-override font-optical-sizing font-size font-size-adjust font-stretch font-style font-synthesis font-variant font-variant-alternates font-variant-caps font-variant-east-asian font-variant-ligatures font-variant-numeric font-variant-position font-weight fr gap grad grid grid-area grid-auto-columns grid-auto-flow grid-auto-rows grid-column grid-column-end grid-column-start grid-row grid-row-end grid-row-start grid-template grid-template-areas grid-template-columns grid-template-rows hanging-punctuation height hyphens Hz image-orientation image-rendering in inherit initial inline-size inset inset-block inset-block-end inset-block-start inset-inline inset-inline-end inset-inline-start isolation justify-content justify-items justify-self kHz left letter-spacing line-break line-height list-style list-style-image list-style-position list-style-type margin margin-block margin-block-end margin-block-start margin-bottom margin-inline margin-inline-end margin-inline-start margin-left margin-right margin-top mask mask-clip mask-composite mask-image mask-mode mask-origin mask-position mask-repeat mask-size mask-type max-height max-width min-block-size min-height min-inline-size min-width mix-blend-mode mm ms object-fit object-position opacity order orphans outline outline-color outline-offset outline-style outline-width overflow overflow-wrap overflow-x overflow-y padding padding-block padding-block-end padding-block-start padding-bottom padding-inline padding-inline-end padding-inline-start padding-left padding-right padding-top page-break-after page-break-before page-break-inside pc perspective perspective-origin place-content place-items place-self pointer-events position pt px Q quotes rad rem resize revert right rotate row-gap s scale scroll-behavior scroll-margin scroll-margin-block scroll-margin-block-end scroll-margin-block-start scroll-margin-bottom scroll-margin-inline scroll-margin-inline-end scroll-margin-inline-start scroll-margin-left scroll-margin-right scroll-margin-top scroll-padding scroll-padding-block scroll-padding-block-end scroll-padding-block-start scroll-padding-bottom scroll-padding-inline scroll-padding-inline-end scroll-padding-inline-start scroll-padding-left scroll-padding-right scroll-padding-top scroll-snap-align scroll-snap-stop scroll-snap-type scrollbar-color scrollbar-width shape-image-threshold shape-margin shape-outside tab-size table-layout text-align text-align-last text-combine-upright text-decoration text-decoration-color text-decoration-line text-decoration-style text-emphasis text-emphasis-color text-emphasis-position text-emphasis-style text-indent text-justify text-orientation text-overflow text-rendering text-shadow text-transform text-decoration-position top touch-action transform transform-box transform-origin transform-style transition transition-delay transition-duration transition-property transition-timing-function translate turn unicode-bidi unset vertical-align vh visibility vmax vmin vw white-space widows width will-change word-break word-spacing word-wrap writing-mode x z-index

# Reference

- MDN CSS Reference

<https://developer.mozilla.org/en-US/docs/Web/CSS/Reference>

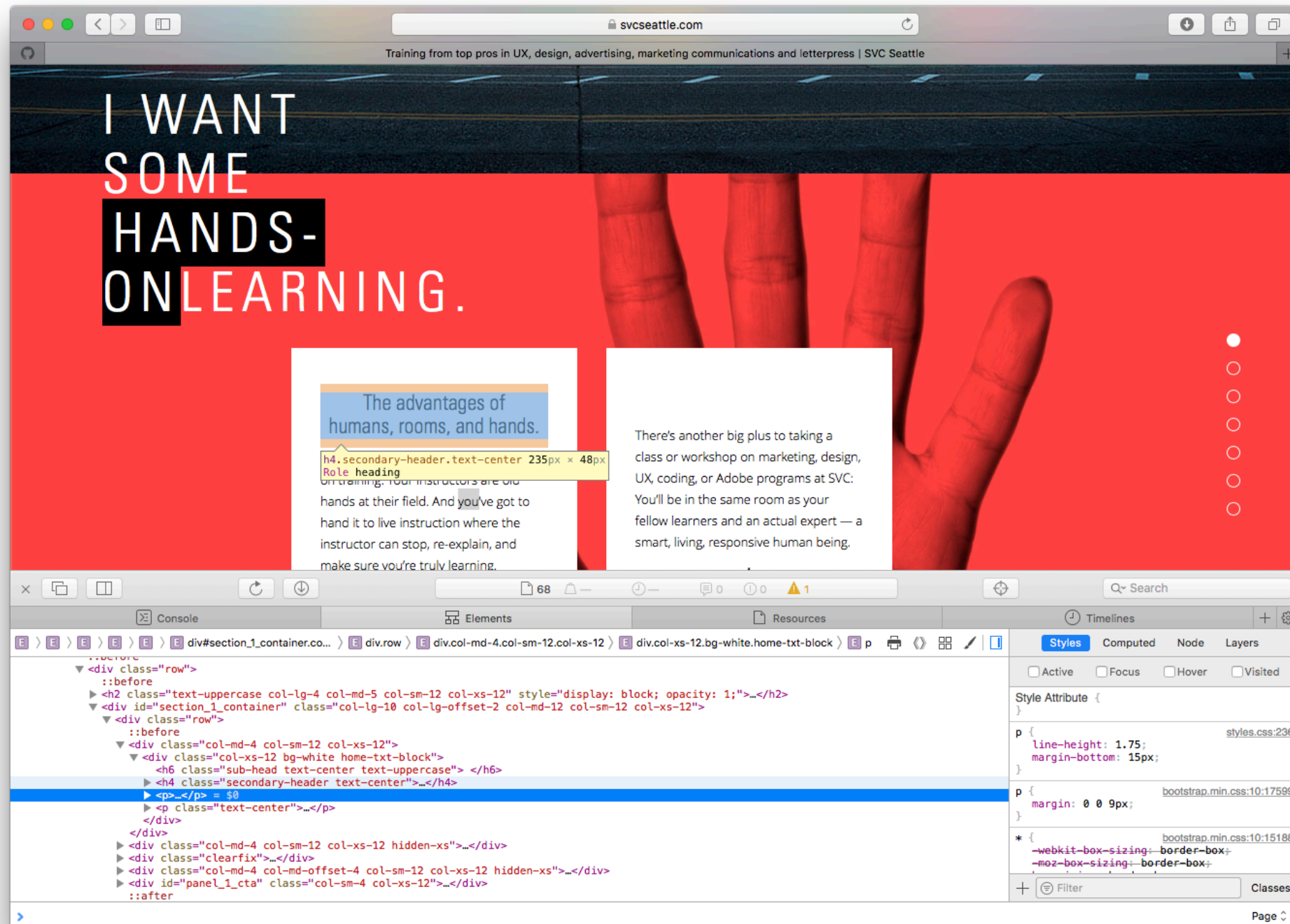
- W3Schools

<https://www.w3schools.com/cssref/>



# Browser Developer Tools

# Browser Developer Tools



# Browser Developer Tools



- Right click > Inspect
- View > Developer > Developer Tools
- ⌘⇧I



- Preferences... > Advanced > Show Develop Menu
- Right click > Inspect Element
  - Develop > Show Web Inspector
  - ⌘⇧I



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 <http://fonts.google.com/>, as all the fonts are free!

Other paid resources include [TypeKit](#) and [Typography.com](#).

## Using Web Fonts

# Using Google Fonts

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

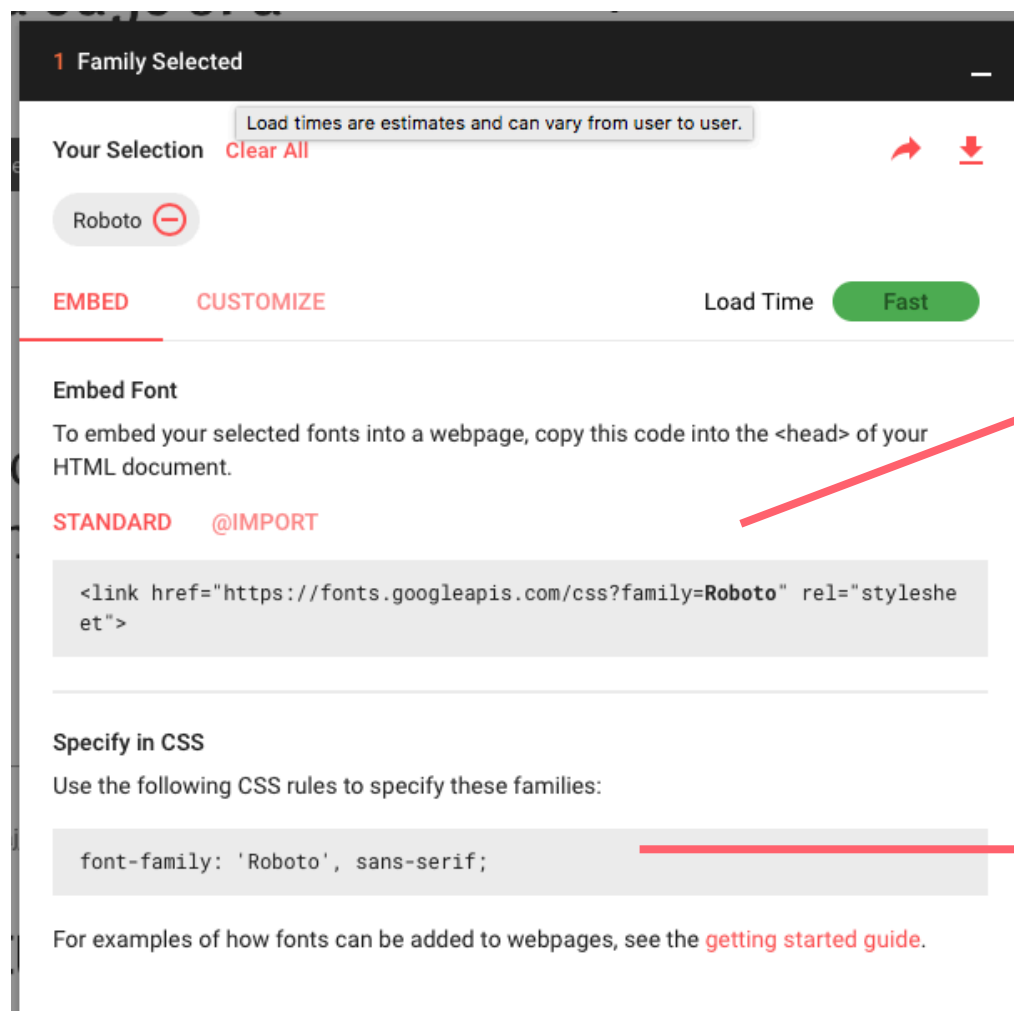


All their equipment  
and instruments are  
alive.

## Using Web Fonts

# Using Google Fonts

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



<head>

<title>My website</title>

<link href="style.css">

<link href="https://fonts..."

</head>

p {

font-family: "Roboto", s...

font-weight: 400;

}

# Getting on the Web

# 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.

Getting on the Web

# What is the Web?

To get your website on the internet, you need to get the files onto 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

Getting on the Web

# Web Hosting vs Domains

Cheap **web hosting** costs about \$5/mo

A cheap **domain name** costs about \$10/yr



Getting on the Web

# Web Hosting

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



Getting on the Web

# 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

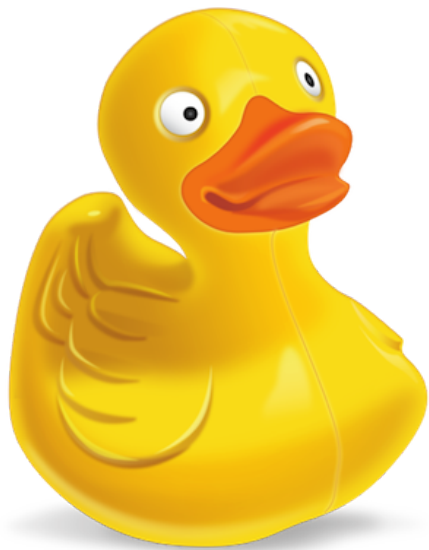
**File Transfer Protocol** is used to transfer files between your computer and your web hosting server.

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

Getting on the Web

# Cyberduck

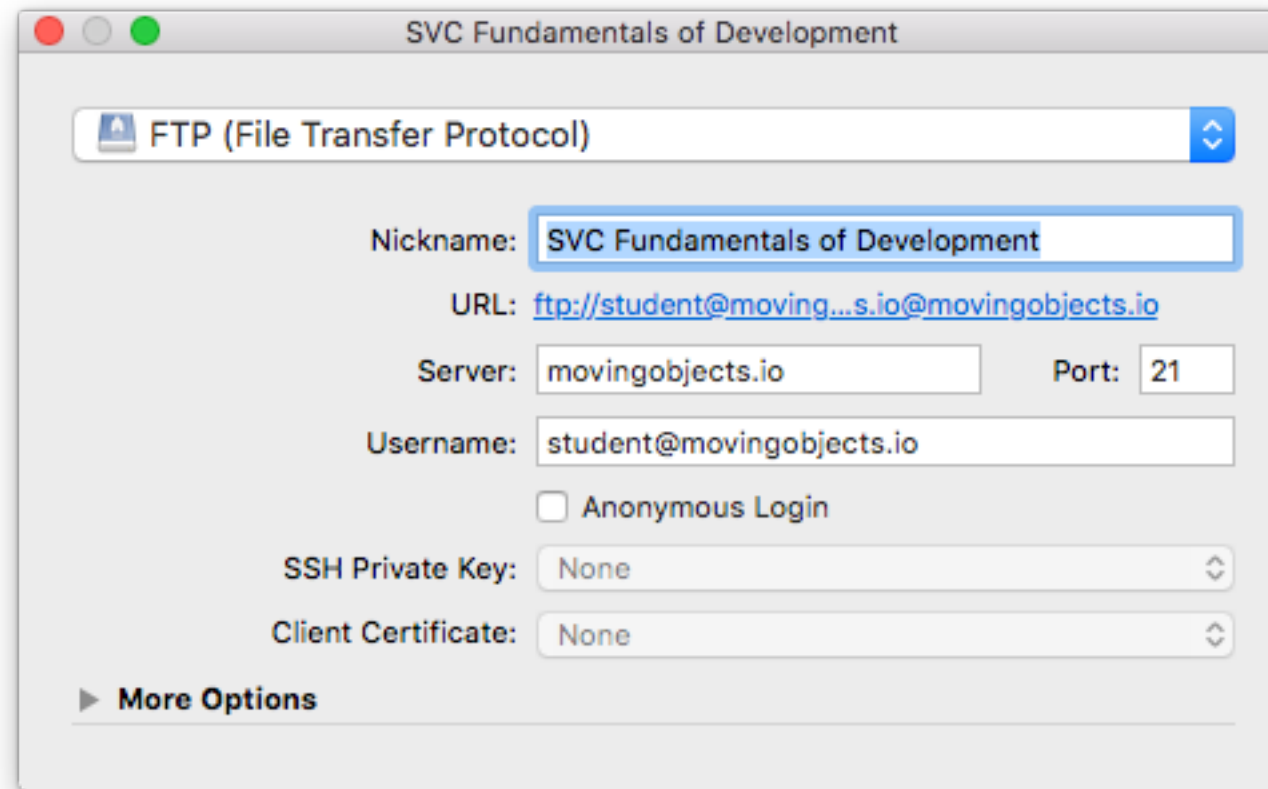
Cyberduck is a free FTP application  
available at <http://cyberduck.io>.



# Info you need to upload

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

# Getting on the Web



The screenshot shows a window titled "SVC Fundamentals of Development" with a standard macOS-style title bar (red, yellow, green buttons). Inside the window, there is a dropdown menu at the top showing "FTP (File Transfer Protocol)". Below this, the "Nickname" field is highlighted with a blue selection box and contains the text "SVC Fundamentals of Development". The "URL" field contains the text "ftp://student@moving...s.io@movingobjects.io". The "Server" field contains "movingobjects.io" and the "Port" field contains "21". The "Username" field contains "student@movingobjects.io". There is an unchecked checkbox labeled "Anonymous Login". The "SSH Private Key" and "Client Certificate" fields both show "None" with a small up/down arrow icon. At the bottom left, there is a "More Options" link with a right-pointing triangle icon.

SVC Fundamentals of Development

FTP (File Transfer Protocol)

Nickname: SVC Fundamentals of Development

URL: ftp://student@moving...s.io@movingobjects.io

Server: movingobjects.io Port: 21

Username: student@movingobjects.io

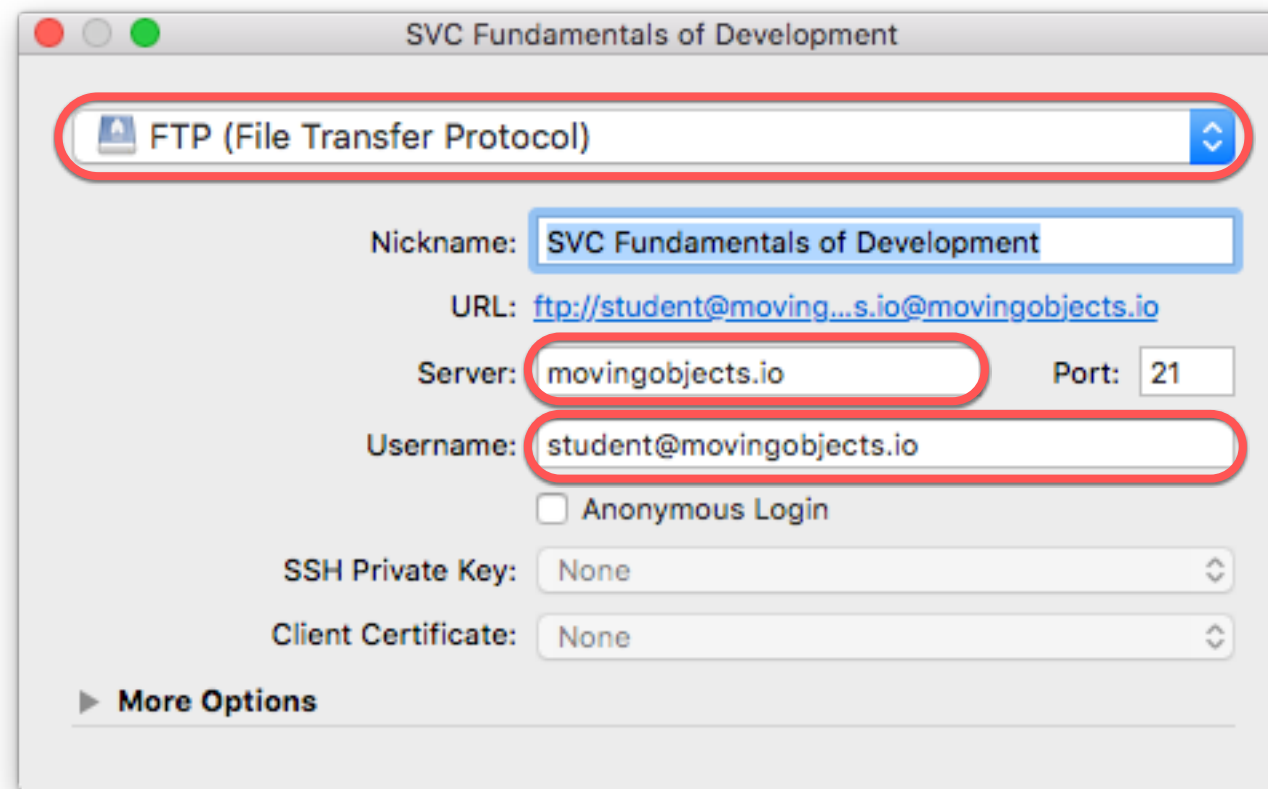
☐ Anonymous Login

SSH Private Key: None

Client Certificate: None

► More Options

# Getting on the Web



The screenshot shows a window titled "SVC Fundamentals of Development" with a light gray background. At the top, there is a red-bordered dropdown menu set to "FTP (File Transfer Protocol)". Below this, the "Nickname" field is filled with "SVC Fundamentals of Development". The "URL" field contains the text "ftp://student@moving...s.io@movingobjects.io". The "Server" field is "movingobjects.io" and the "Port" field is "21", both highlighted with red circles. The "Username" field is "student@movingobjects.io", also highlighted with a red circle. Below the username field is an unchecked checkbox labeled "Anonymous Login". The "SSH Private Key" and "Client Certificate" fields both show "None". At the bottom left, there is a "More Options" link with a right-pointing triangle icon.

SVC Fundamentals of Development

FTP (File Transfer Protocol)

Nickname: SVC Fundamentals of Development

URL: ftp://student@moving...s.io@movingobjects.io

Server: movingobjects.io Port: 21

Username: student@movingobjects.io

☐ Anonymous Login

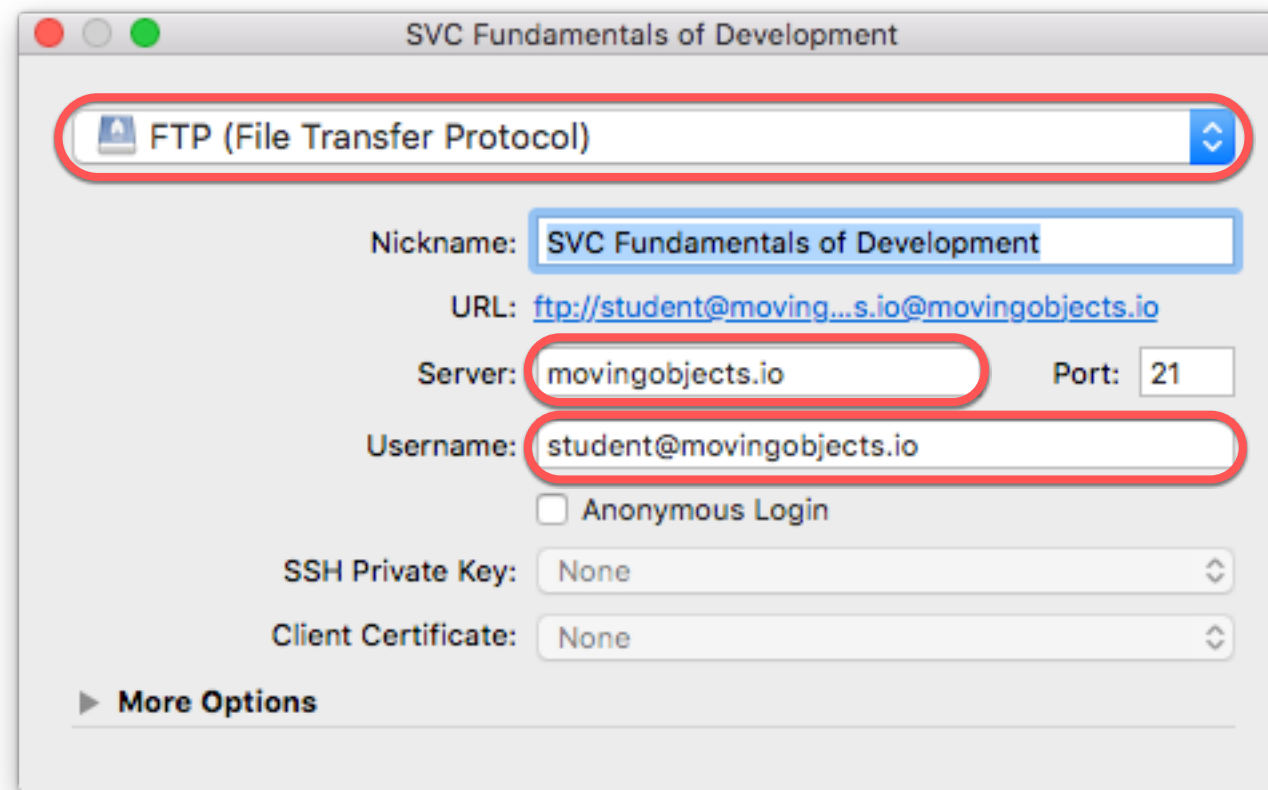
SSH Private Key: None

Client Certificate: None

► More Options



# Getting on the Web



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

Getting on the Web

# 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

# Week 2 Project

# Questions? Comments?

- Visit <http://movingobjects.io/svc> for class slides, code samples, resources
- Email me: [scott@movingobjects.io](mailto:scott@movingobjects.io)