

What we'll cover in this course

- Major **HTML/HTML5** elements
- Major **CSS** properties and capabilities
- Web site **structure** and **navigation**
- **Prepping** images for the web
- **Overviews** of related **technologies**, **issues**, and **techniques**

How we'll cover it

- **“Lecture”**
- **Discussion and questions**
- **Writing and editing code**
- **Building a small website on a topic of your choosing**
- **Optional reading**

Class details

- Tuesdays, January 7-February 4
- 6:30-9:30pm (with a break!)
- No grades, no tests, no requirements
- Participate, ask questions, practice

Class resources

Slides, code samples from class, tools, and online resources will be found at dpersing.github.io/svc/



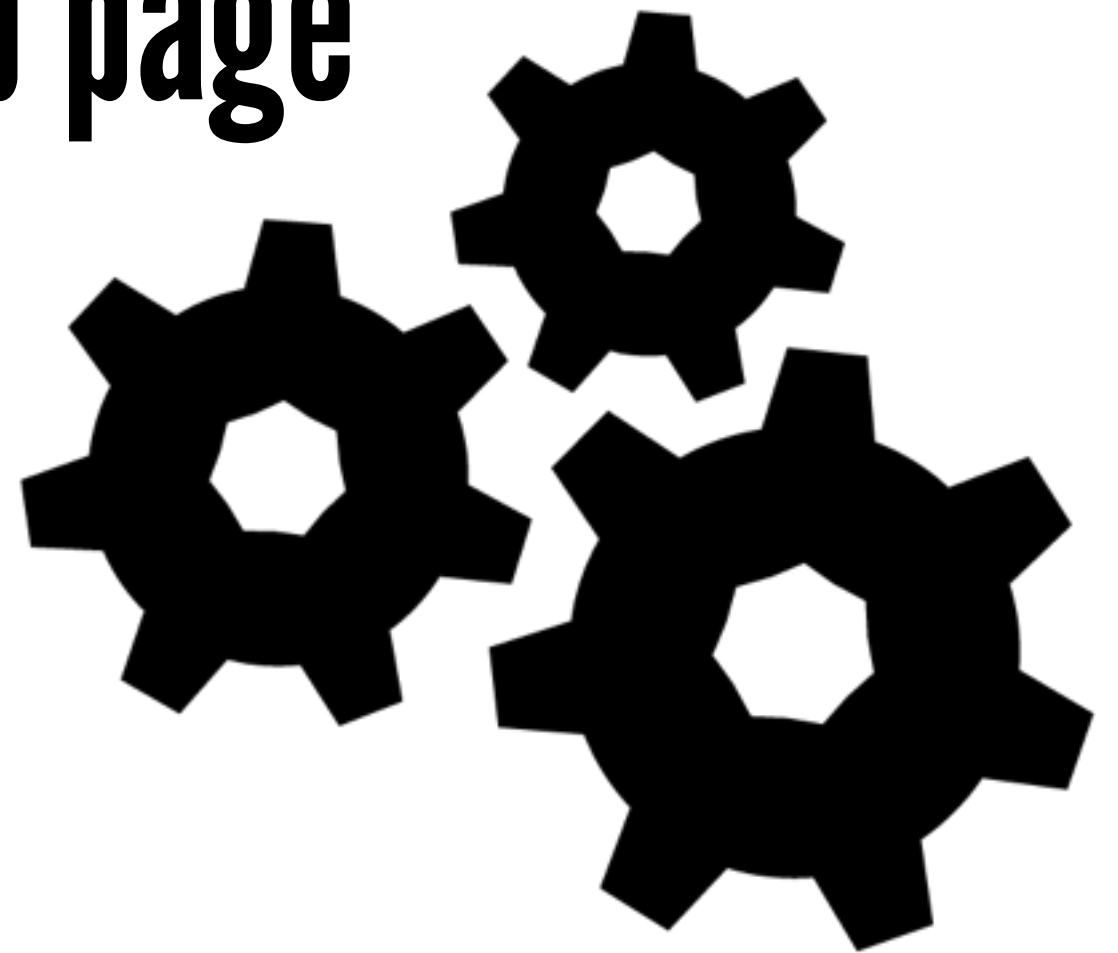
Introductions

- **Who are you?**
- **What do you do/make/etc.?**
- **What do you want to get out of this class?**

Tonight

- **Components and planning of web pages**
- **Code editing tools**
- **Basic HTML elements**
- **File structures and conventions**
- **Storing class files in Dropbox**

Components of a web page



[Gears](#) designed by [Dima Yagnyuk](#) from The Noun Project

Content. Design. Code.

- **Content** is the reason we make web pages
- **Design** is how we create user experiences and emotional responses
- **Code** is how we deliver content and experience

Content first

Text

- Articles
- Blog posts
- Links
- Captions
- Etc.

Media

- Images
- Video
- Audio
- Interactive experiences

Design second

Experience design and information architecture

- **Layout**
- **Navigation**
- **User flows**
- **Labeling**

Graphic design

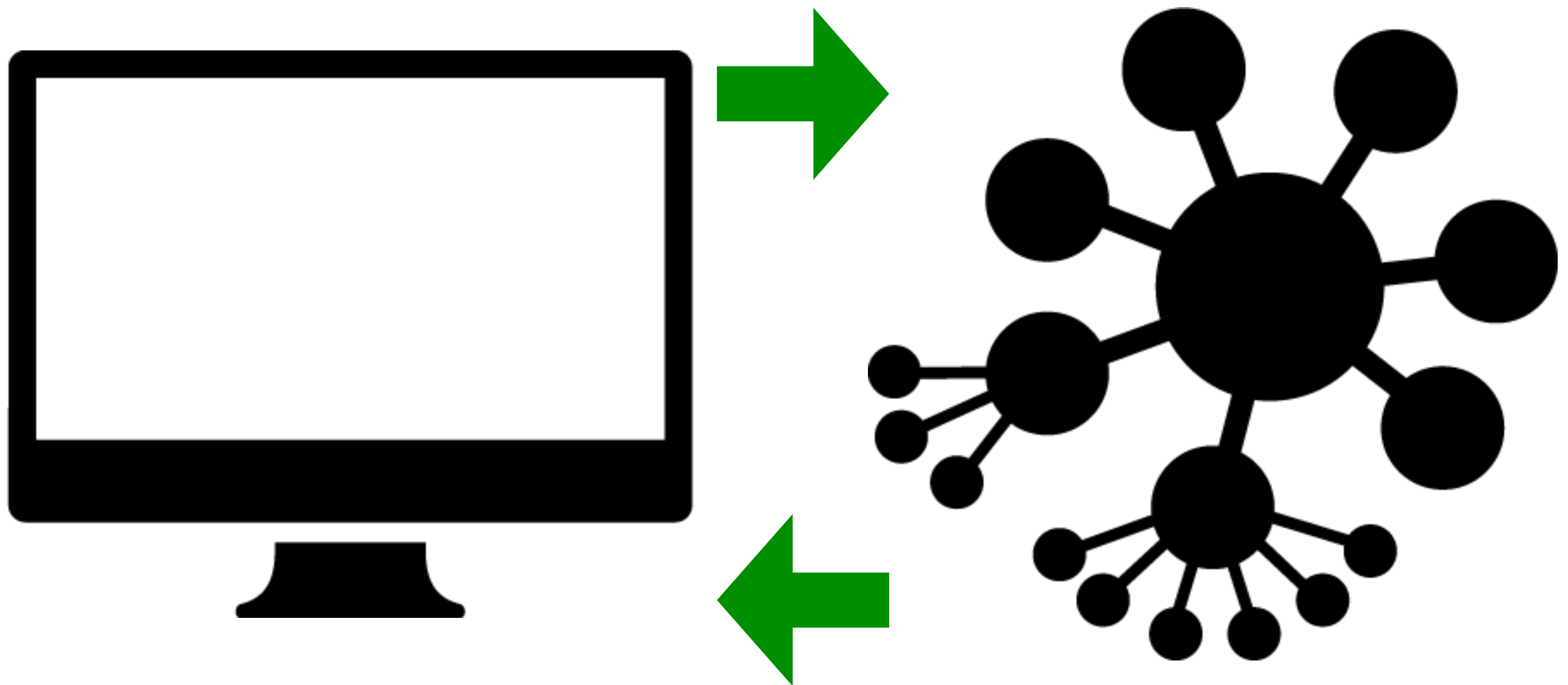
- **Colors**
- **Fonts**
- **Backgrounds**
- **Borders**
- **Icons**

Code third

- **HTML*** structures content
- **CSS*** creates style and layout
- **Javascript** adds extra interactivity

***We'll be focusing on HTML and CSS.**



From the web with love



(the internet)

[Computer](#) from The Noun Project
[Network](#) designed by [Jerry Wang](#) from The Noun Project

A brief history of HTML

- **HTML** was proposed in 1991 and revised until 1999 by the **WC3**  world wide web consortium
- By 2000, **XHTML** and **CSS** were specced for building and styling webpages
- **HTML5** started coming about in 2004 and is collaboratively developed by the **W3C** and **WHATWG** 
Web Hypertext Application
Technology Working Group



Major browsers

- **Internet Explorer** on Windows
- **Safari** on OSX and iOS
- **Chrome** across platforms
- **Firefox** across platforms

Types of editors

what You See IS what You Get
↙

WYSIWYG editors

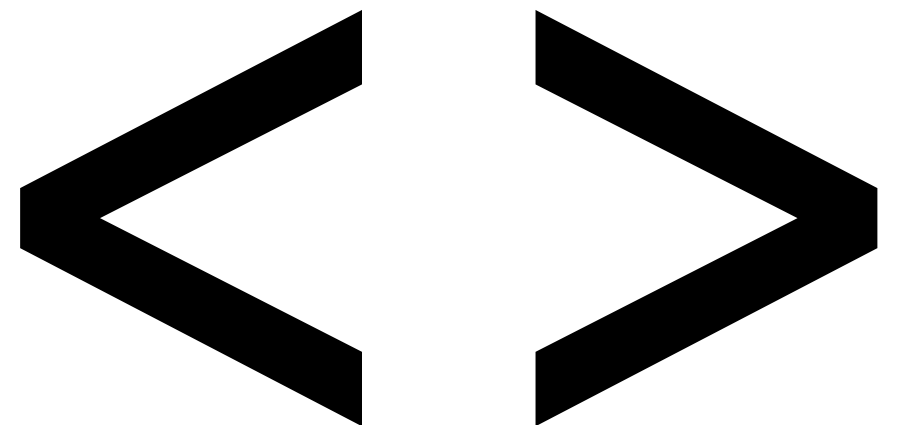
- Dreamweaver
- CMS and blogging editors

Text editors

- Sublime Text*
- TextMate
- BBEdit
- Notepad

***We'll be using Sublime Text in class.**

Basic HTML elements



Let's get started!

```
<!DOCTYPE html>

<html lang="en">

  <head>
    <meta charset="UTF-8">
    <!-- Author: Me | Date: Today | HTML and CSS Level 1: Week One -->
    <title>My First Page</title>
  </head>

  <body>
    <h1>My First Page</h1>

    <p>Yes, we're going to write some HTML today.</p>
  </body>

</html>
```

<!DOCTYPE html>

- Always comes first
- Tells the **browser** that this is an HTML document
- Older but very common XHTML DOCTYPE:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

Anatomy of an HTML element

<p>I'm a paragraph!**</p>**

opening tag

closing tag

HTML elements almost always have
opening and **closing** tags.

Element attributes

```
<a href="index.html">I'm a link!</a>  
  attrName="value"
```

Some HTML elements will have additional attributes that give them more **meaning**.

The “rules”

- Tags are **lower case***

`<p>` not `<P>`

- Tags must be **closed****

`<p>foo</p>` not `<p>foo`

- Attributes must have **values in quotes*****

`` not `` or ``

- * HTML5 technically allows uppercase tags, but it's considered bad form.
- ** We'll break this rule for some elements.
- *** HTML5 breaks this rule sometimes, but we probably won't get that far.

<html> element

```
<html lang="en">  
  <!-- everything else -->  
</html>
```

The **html** element starts right after the DOCTYPE and closes at the very end of your document.

<head> element

```
<head>  
  <meta charset="UTF-8">  
  <title>Page Title</title>  
</head>
```

- Contains **metadata** about the document, **scripts** and **styles**
- Contains the **page title** that displays in the browser
- **Is required!**

<meta> elements

```
<head>  
  <meta charset="UTF-8">  
  <meta author="Devon Persing">  
  <meta description="This page is an example to  
  show how meta elements work.">  
  <title>Page Title</title>  
</head>
```

The **meta** elements describe the document with information like **character set, author, and description.**

<title> element

```
<head>  
  <title>Page Title</title>  
</head>
```

- Tells the **browser** what to display in the title bar or page tab
- Important for **usability**, **accessibility**, and **SEO**
- **Is required!**

HTML comments

```
<head>  
  <meta charset="UTF-8">  
  <meta author="Devon Persing">  
  <meta description="This page is an example to  
  show how meta elements work.">  
  <title>Page Title</title>  
  <!-- comments go in here -->  
</head>
```

HTML comments can be placed anywhere in the HTML document, and are great for leaving yourself and others notes.

Indentation

```
<head>  
  <meta charset="UTF-8">  
  <meta author="Devon Persing">  
  <meta description="This page is an example to  
  show how meta elements work.">  
  <title>Page Title</title>  
  <!-- comments go in here -->  
</head>
```

Indenting child elements helps keep
your code clean and easy to read.

<body> element

<body>

<!-- all your visible content -->

</body>

- Comes right after the **head** element
- Wraps all of the **visible content**
- **Is required!**

<h1> element

```
<body>  
  <h1>Page Title</h1>  
</body>
```

- Most important element in the **body**
- Typically will match the **title** element of the same page
- Used by **search engines** and **assistive technologies** to identify the page

More header elements

- Range from **<h1>** (most important) to **<h6>** (least important)
- Lesser headers should always come after more important ones (h1, h2, h3, etc.)
- Provide structure and **semantic meaning** to HTML pages

<p> element

`<p>`Here's a paragraph. You may remember it from the slide about closing your tags.`</p>`

- **Paragraph** elements are exactly what they sound like!
- Used to structure **text** in the document
- When in doubt, put a `<p>` around it

List elements

```
<ul>  
  <li>Here's a list item.</li>  
  <li>Here's another list item.</li>  
</ul>
```

- Most lists are of two main kinds:
 - **Unordered:**
 - **Ordered:**
- Lists always contain **list items:**
- Lists can be nested within each other

 element

```

```

- **Image** elements **do not have closing tags**
- Images have **two required attributes**:
 - **src** is where the file lives
 - **alt** is a text description of the image

 element

<p>Here's a paragraph.

It has an arbitrary, visual break between sentences.</p>

- **Break** elements create visual line breaks in the browser
- Do not have closing tags
- **Use with caution!***

***Next week we'll talk about separating style from content.**

<a> element

`Google`

- **Anchor** or **link** elements create paths that connect HTML pages together
- Link elements are **required to have an href element** to tell them where to go
- Content inside the element will be **clickable**

Types of file paths

Absolute paths

- Full URL of the page or file

<http://google.com>

<http://dpersing.github.io/svc/img/svc-logo.png>

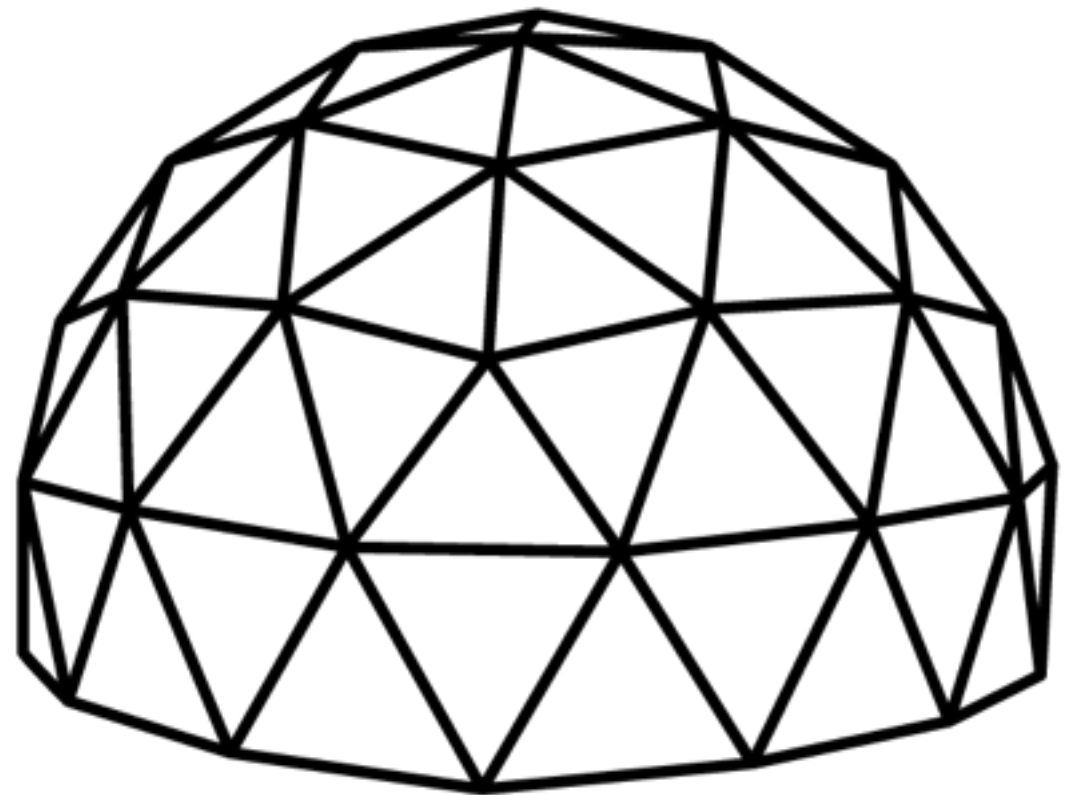
Relative paths

- URL in relation to the file you're in

</svc/img/svc-logo.png>

[../svc/img/svc-logo.png](../../svc/img/svc-logo.png)

File structure and conventions



Rules of file naming

- **No spaces** in file names
- **Capitalization** matters
- Use only **letters, numbers, hyphens (-), and underscores (_)**
- Filenames must **start with a letter**
- Your homepage will usually be **index.html**

Recommendations for file naming

- **Be consistent**
- **Use meaningful filenames**
- **Standardizing your filenames will help prevent errors**
- **Current standard:**
 - `svc-logo-small.png`**
 - `photo-gallery.html`**
 - `shoes-i-have-loved.html`**

File structure

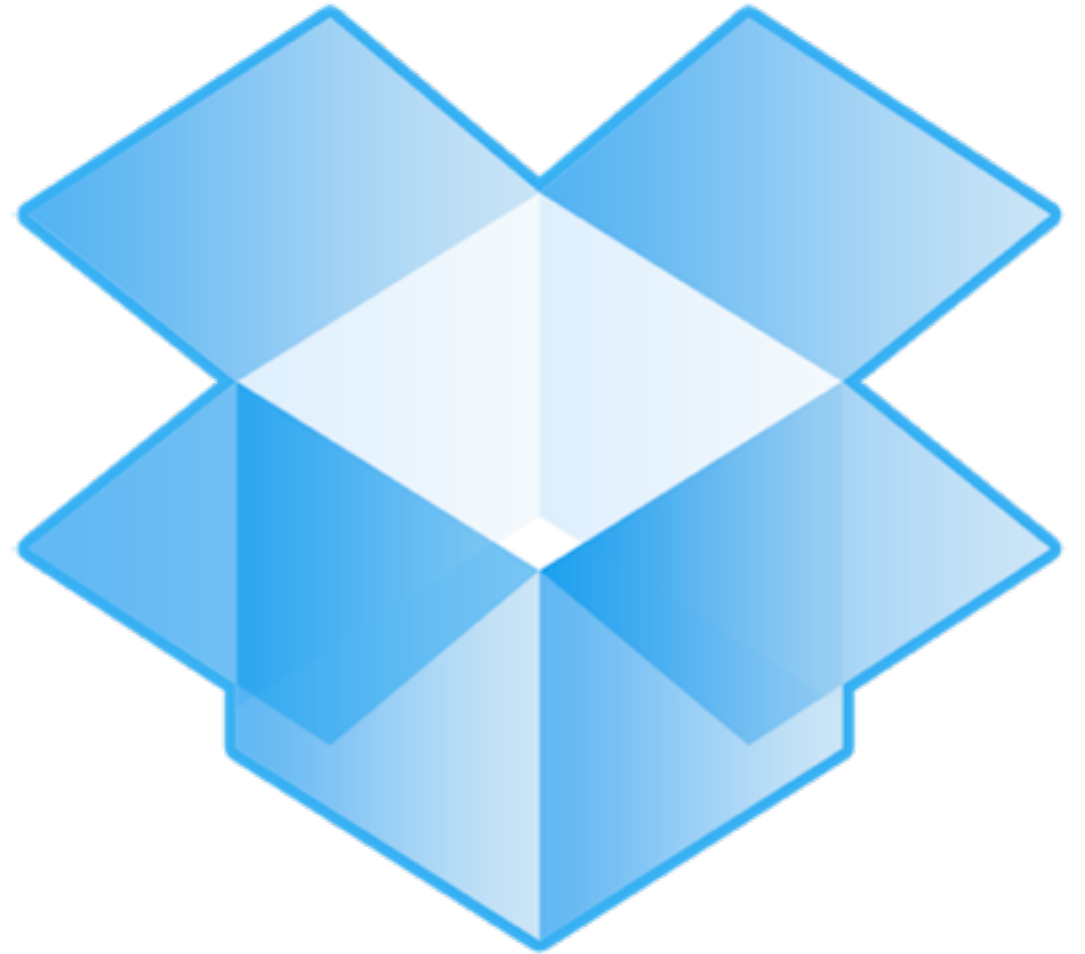
- **Make subdirectories** for CSS and media files
- Start with HTML files in the **main directory**
- **Standardizing your structure:**
 - Makes updates faster
 - Makes links easier
 - Prevents needing to move files around

Organization isn't just for you!

Other people might need to find or edit your files and media, and **other people** will navigate your site.

- Standardized **file structure**
- Standardized **filenaming**
- **Comments** in code (**<!-- these! -->**)
- **Indenting your code** so it's readable

Storing files with Dropbox



Dropbox? Really?

- **Dropbox** is a free file hosting/sharing service
- Dropbox has some basic **version control**
 - Takes snapshots of files periodically
 - Keeps track when files are moved or deleted

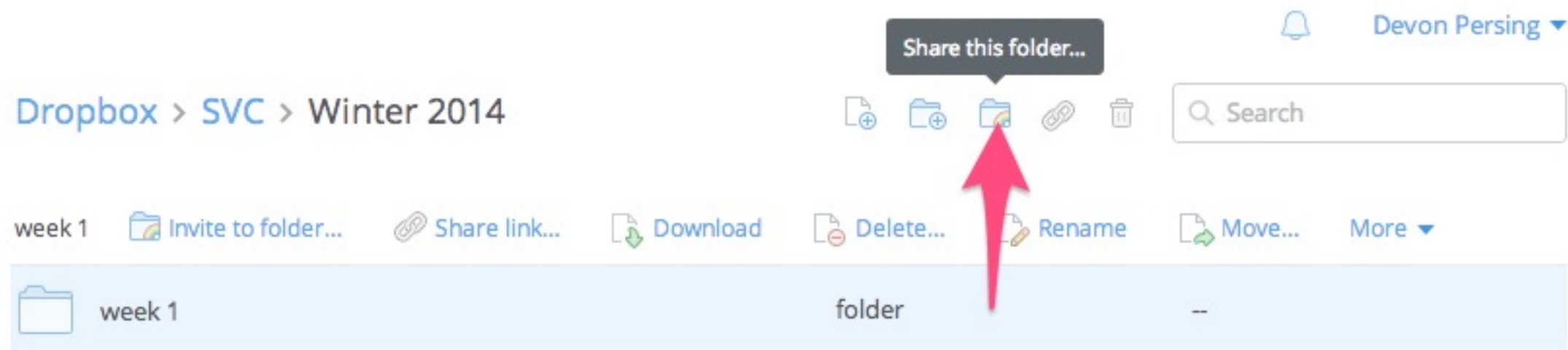
Setting up a Dropbox account

- Go to <http://dropbox.com> and create an account if you don't have one
- Log in to your account

(If you want to have your Dropbox files locally on your own machine, click on the “Install” button in the Dropbox page footer to download the app.)

Adding and sharing a folder

- Create a Dropbox folder called “**yourname-svc**”
- Upload your files to your new folder
- Share your folder with me:
dep@dpersing.com



Make a mistake?



- Click on the “Events” link to see uploads, deletions, and other changes to your files
- Click on the link for a deleted file to restore it to a previous version
- In your file folder, you can see (and roll back to) previous versions of your existing files

For next week

- Make a **3-5 page website** (index.html and at least two other pages, linked together) with the elements we discussed today
- Upload your files to a Dropbox folder and share the folder with me
- ***HTML and CSS***: ch. 1-4 (ignore pg. 45 and use pg. 51 instead)
- ***HTML5 for Web Designers***: ch. 1-2

Next week

- Questions and review from week 1
- Prepping images for the web in Photoshop and Illustrator
- Introduction to CSS and HTML container elements
- Styling HTML with CSS
- Validating HTML and CSS

Questions?

- Visit <http://dpersing.github.io/svc>
 - Class slides
 - Code samples from class
 - General and class-specific resources
- Email me at dep@dpersing.com