#### **Front**





# Welcome! Find your table







We're going clockwise!

Week 1

# The Structure of Websites

#### **Announcements**

- Lectures are **mandatory**, we apologize for any confusion in last week's syllabus slides!
- Please remember to
  - o create your account on WDD Portal (wdd.io),
  - o join our class on Piazza (link can be found in WDD portal),
  - o and enroll in DES INV 198 on CalCentral
- Homework will be announced on Piazza, due next Monday, 7:00 PM
- Post your question on wdd.io/queue if you're shy to ask
- Please download ONE of the text editors in the next slide (We recommend <u>Visual Studio Code</u>, <u>Atom</u> or <u>Sublime</u>!)

#### **Creative tools**

**Web Browser** 

Chrome

Safari

Firefox

Opera

Edge

**Code Editor** 

Visual Studio Code

Atom

WebStorm

Brackets

Sublime

**Prototyping** 

Figma

Adobe XD

Keynote

Powerpoint

<del>Illustrator</del>

# **Quick Intro to Websites**

<HTML>

# **Quick Intro to Websites**

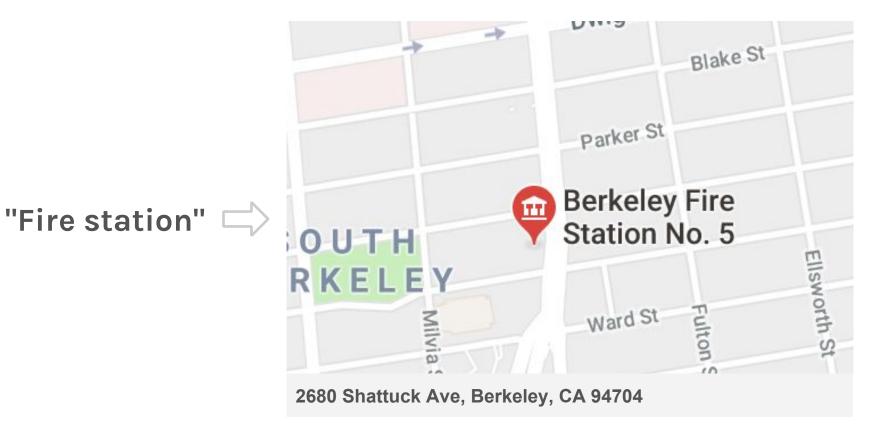
<HTML>

#### What is a website?

A website is traditionally a set of web pages served on a single domain

A web page is a document, usually written in HTML

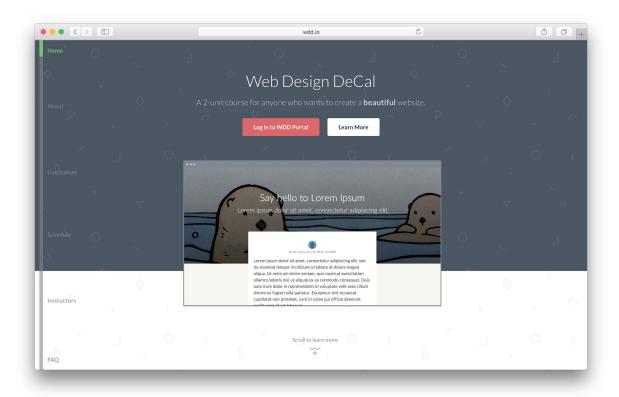
A domain is an address (wdd.io) that represents a server where the files are located



wdd.io

207.38.86.245

```
<!DOCTYPF html PUBLIC "-//W3C//DTD XHTML 1.0</pre>
Transitional//EN""http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
    <title>Web Design DeCal</title>
    <meta name="description" content="A 2 unit course in UC Berkeley for anyone who wants to create a</pre>
beautiful website." />
    <meta property="og:title" content="Web Design DeCal" />
    <meta property="og:url" content="http://www.wdd.io/" />
    <meta property="og:image" content="http://www.wdd.io/static/thumbnails/logo.png" />
    <meta property="og:description" content="A 2 unit course in UC Berkeley for anyone who wants to</pre>
create a beautiful website." />
    <meta property="og:site_name" content="Web Design DeCal" />
    <meta name="twitter:title" content="Web Design DeCal">
    <meta name="twitter:description" content="A 2 unit course in UC Berkeley for anyone who wants to</pre>
create a beautiful website.">
    <meta name="twitter:image" content="http://www.wdd.io/static/thumbnails/logo.png">
    <link href='http://fonts.googleapis.com/css?familv=Lato:300.400.700' rel='stvlesheet'</pre>
tvpe='text/css'>
    <link rel="stylesheet" type="text/css" href="/static/css/promotional.css" />
    <link rel="shortcut icon" href="/static/icons/favicon.ico" />
    <script type="text/javascript" src="/static/js/vendor/jquery-1.8.3.min.js" charset="utf-8"></script>
    <script type="text/javascript" src="/static/js/vendor/jquery-ui-1.9.2.min.js"</pre>
charset="utf-8"></script>
```



# Two ends of a website (roughly speaking)

#### Front end

what users can see & what happens in your web browser e.g. text, images, buttons

#### Back end

What users can't see & beyond your web browser e.g. business logic, data storage

#### What websites are made of



# HTML provides the structure of the page A well-written HTML document should be "understandable" without a stylesheet

```
<!DOCTYPF html PUBLIC "-//W3C//DTD XHTML 1.0</pre>
Transitional//EN""http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
    <title>Web Design DeCal</title>
    <meta name="description" content="A 2 unit course in UC Berkeley for anyone who wants to create a</pre>
beautiful website." />
    <meta property="og:title" content="Web Design DeCal" />
    <meta property="og:url" content="http://www.wdd.io/" />
    <meta property="og:image" content="http://www.wdd.io/static/thumbnails/logo.png" />
    <meta property="og:description" content="A 2 unit course in UC Berkeley for anyone who wants to</pre>
create a beautiful website." />
    <meta property="og:site_name" content="Web Design DeCal" />
    <meta name="twitter:title" content="Web Design DeCal">
    <meta name="twitter:description" content="A 2 unit course in UC Berkeley for anyone who wants to</pre>
create a beautiful website.">
    <meta name="twitter:image" content="http://www.wdd.io/static/thumbnails/logo.png">
    <link href='http://fonts.googleapis.com/css?familv=Lato:300.400.700' rel='stvlesheet'</pre>
tvpe='text/css'>
    <link rel="stylesheet" type="text/css" href="/static/css/promotional.css" />
    <link rel="shortcut icon" href="/static/icons/favicon.ico" />
    <script type="text/javascript" src="/static/js/vendor/jquery-1.8.3.min.js" charset="utf-8"></script>
    <script type="text/javascript" src="/static/js/vendor/jquery-ui-1.9.2.min.js"</pre>
charset="utf-8"></script>
```

# CSS provides the design of the page Just several lines of "code" is enough to create "design"

shapes, color, buttons, you name it

```
body {
  margin: 0;
   font-family: 'Lato', sans-serif;
   background: #f7f5f2;
   -webkit-font-smoothing: antialiased;
a {
   color: inherit;
   text-decoration: none;
.img-scaled {
   width: 100%;
.img-scaled-wh {
  width: 100%;
  height: 100%;
   object-fit: cover;
.clear {
  clear: both;
```

# JavaScript provides the function of the page What will happen to websites with JavaScript disabled?

```
function resize_dom(window_height) {
    $('.schedule-item')
        .css('padding-top', (($(window).height() - window_height) / 2) + 'px');
    $('.schedule-item:nth-child(12)')
        .css('padding-bottom', (($(window).height() - window_height) / 2) + 'px');
    $('#apply-header').css('height', $(window).height() - 180 + 'px');
    setTimeout(function(){
        scheduleOffsetDict = {};
        $('.schedule-item').each(function(i){
            scheduleOffsetDict[$(this).position().top - 120] = i;
        });
    }, 100);
function set_cover() {
    var offsetY = \$(window).height() * 0.7 - 340;
    $('.window-container').css('top', offsetY);
$(document).ready(function(){
    set_cover();
```

#### What websites are made of





# Questions?

### Quick Intro to Websites

<HTML>

What does it look like?

How do we use it?

What does it look like?

How do we use it?

# Hypertext Markup Language

A collection of **tags** related to each other in **parent-child relationships** 

# Hypertext Markup Language

A collection of **tags** related to each other in **parent-child relationships** 

## Matryoshka Dolls

A collection of **dolls** related to each other in **nested relationships** 



Web Design DeCal Spring 2019

What does it look like?

How do we use it?

## Anatomy of an HTML Document

```
<!doctype html>
<html>
   <head></head>
   <body>
      <!-- this itself is a comment -->
      <!-- your webpage content
         goes inside the body tag -->
      Welcome to WDD!
      <img src="wdd.png" />
   </body>
</html>
```



# Tags are the building blocks of HTML And they "usually" come in pairs

# Opening tag

```
<!doctype html>
<html>
  <body>
      <!-- this itself is a comment -->
      <!-- your webpage content goes inside the body -->
      Welcome to WDD!
      <img src="wdd.png" />
  </body>
</html>
```

# **Closing tag**

```
<!doctype html>
<html>
  <body>
      <!-- this itself is a comment -->
      <!-- your webpage content goes inside the body -->
      Welcome to WDD!
      <img src="wdd.png" />
  </body>
</html>
```

# Pair of paragraph tags

```
<!doctype html>
<html>
      <!-- this itself is a comment -->
      <!-- your webpage content goes inside the body -->
      Welcome to WDD!
      <img src="wdd.png" />
  </body>
</html>
```

# One exception: self-closing tag

```
<!doctype html>
<html>
      <!-- this itself is a comment -->
      <!-- your webpage content goes inside the body -->
      Welcome to WDD!
      <img src="wdd.png" />
  </body>
</html>
```

# Tags can contain other tags, text, or a combination of 'em

# Words inside paragraph tags

```
<!doctype html>
<html>
      <!-- this itself is a comment -->
      <!-- your webpage content goes inside the body -->
      Welcome to WDD!
      <img src="wdd.png" />
  </body>
</html>
```

# Nesting tags

```
<!doctype html>
<html>
  <body>
      <!-- this itself is a comment -->
      <!-- your webpage content goes inside the body -->
      Welcome to WDD!
      <img src="wdd.png" />
  </body>
</html>
```

# Nesting more tags

```
<!doctype html>
<html>
  <body>
      <!-- this itself is a comment -->
      <!-- your webpage content goes inside the body -->
      Welcome to WDD!
      <img src="wdd.png" />
  </body>
</html>
```

Tags begun with <! usually have special purposes <3

#### To begin an HTML5 document

```
<!doctype html>
<html>
       <!-- this itself is a comment -->
       <!-- your webpage content goes inside the body -->
       Welcome to WDD!
       <img src="wdd.png" />
   </body>
</html>
```

#### **Annotations/comments**

```
<!doctype html>
<html>
      <!-- this itself is a comment -->
       <!-- your webpage content goes inside the body -->
       Welcome to WDD!
       <img src="wdd.png" />
  </body>
</html>
```

# Some special tags to structure an HTML page

### Pair of html tags

```
<!doctype html>
<html>
       <!-- this itself is a comment -->
       <!-- your webpage content goes inside the body -->
       Welcome to WDD!
       <img src="wdd.png" />
  </body>
</html>
```

#### What is an html tag?

- Contains everything of a webpage
- There should only be one of this in the entire file

```
<html> </html>
```

# Pair of head tags

```
<!doctype html>
<html>
  <head></head>
      <!-- this itself is a comment -->
      <!-- your webpage content goes inside the body -->
      Welcome to WDD!
      <img src="wdd.png"/>
  </body>
</html>
```

#### What is a head tag?

- User does not see what is here
- Sets up the page
- Title (on tab) of page
- Links to important resources
  - CSS and JS files
  - Fonts
- Author(s) of webpage
- Other metadata
- Sits inside <html></html>

```
<head> </head>
```

# Pair of body tags

```
<!doctype html>
<html>
  <body>
      <!-- this itself is a comment -->
      <!-- your webpage content goes inside the body -->
      Welcome to WDD!
      <img src="wdd.png" />
  </body>
</html>
```

# What is a body tag?

- User does see what is here
- All the webpage content
  - Words and text
  - Images
- Also sits inside <html></html>

```
<body>
```

# An analogy

head & body ≈ brain & body

# A lot of the tags seem very specific What about a "generic" tag to structure the content?

#### What tags can we spot here?

```
<!doctype html>
<html>
  <head></head>
  <body>
      <h1>Department store</h1>
      <div>
          <h2>Fruit</h2>
          We have apples, oranges, pears, etc.
      </div>
      <div>
          <h2>Coffee</h2>
          There is cold brew, decaf, ????
      </div>
  </body>
</html>
```



#### What is a div tag?

- An empty, meaningless box!
- "Divides" up page content for better structure – grouping things

```
<div>
   <h2>Fruit</h2>
   We have apples, oranges, pears, etc.
</div>
<div>
   <h2>Coffee</h2>
   There is cold brew, decaf, ????
</div>
```

#### Semantic HTML example: div vs. section

```
<div>
   <h2>Fruit</h2>
   We have apples, oranges, pears, etc.
</div>
<div>
   <h2>Coffee</h2>
   There is cold brew, decaf, ????
</div>
```

```
<section>
   <h2>Fruit</h2>
   We have apples, oranges, pears, etc.
</section>
<section>
   <h2>Coffee</h2>
   There is cold brew, decaf, ????
</section>
```

# Very exciting.

A	1	<blockquote></blockquote>	<del></del>	<form></form>	<img/>	<menu></menu>	<param/>	<small></small>	<time></time>
	<a>&gt;</a>	<body></body>	<details></details>	<frame/>	<input/>	<menuitem/>	<picture></picture>	<source/>	<title>&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;abbr&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;dfn&gt;&lt;/td&gt;&lt;td&gt;&lt;frameset&gt;&lt;/td&gt;&lt;td&gt;&lt;ins&gt;&lt;/td&gt;&lt;td&gt;&lt;meta&gt;&lt;/td&gt;&lt;td&gt;&lt;plaintext&gt;&lt;/td&gt;&lt;td&gt;&lt;spacer&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;acronym&gt;&lt;/td&gt;&lt;td&gt;&lt;button&gt;&lt;/td&gt;&lt;td&gt;&lt;dialog&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;isindex&gt;&lt;/td&gt;&lt;td&gt;&lt;meter&gt;&lt;/td&gt;&lt;td&gt;&lt;pre&gt;&lt;/td&gt;&lt;td&gt;&lt;span&gt;&lt;/td&gt;&lt;td&gt;&lt;track&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td rowspan=5&gt;&lt;/td&gt;&lt;td&gt;&lt;address&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;dir&gt;&lt;/td&gt;&lt;td&gt;GH&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;pre&gt;&lt;pre&gt;&lt;pre&gt;&lt;pre&gt;&lt;pre&gt;&lt;pre&gt;&lt;pre&gt;&lt;pre&gt;&lt;/td&gt;&lt;td&gt;&lt;strike&gt;&lt;/td&gt;&lt;td&gt;&lt;tt&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;applet&gt;&lt;/td&gt;&lt;td&gt;C&lt;/td&gt;&lt;td&gt;&lt;div&gt;&lt;/td&gt;&lt;td&gt;&lt;h1&gt;&lt;/td&gt;&lt;td&gt;J K&lt;/td&gt;&lt;td&gt;N&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;strong&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;area&gt;&lt;/td&gt;&lt;td&gt;&lt;canvas&gt;&lt;/td&gt;&lt;td&gt;&lt;dl&gt;&lt;/td&gt;&lt;td&gt;&lt;h2&gt;&lt;/td&gt;&lt;td&gt;&lt;kbd&gt;&lt;/td&gt;&lt;td&gt;&lt;nav&gt;&lt;/td&gt;&lt;td&gt;Q&lt;/td&gt;&lt;td&gt;&lt;style&gt;&lt;/td&gt;&lt;td&gt;U&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;article&gt;&lt;/td&gt;&lt;td&gt;&lt;caption&gt;&lt;/td&gt;&lt;td&gt;&lt;dt&gt;&lt;/td&gt;&lt;td&gt;&lt;h3&gt;&lt;/td&gt;&lt;td&gt;&lt;keygen&gt;&lt;/td&gt;&lt;td&gt;&lt;nobr&gt;&lt;/td&gt;&lt;td&gt;&lt;q&gt;&lt;/td&gt;&lt;td&gt;&lt;sub&gt;&lt;/td&gt;&lt;td&gt;&lt;u&gt;&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;aside&gt;&lt;/td&gt;&lt;td&gt;&lt;center&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;h4&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;noframes&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;summary&gt;&lt;/td&gt;&lt;td&gt;&lt;ul&gt;&lt;li&gt;&lt;ul&gt;&lt;l&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;audio&gt;&lt;/td&gt;&lt;td&gt;&lt;cite&gt;&lt;/td&gt;&lt;td&gt;E&lt;/td&gt;&lt;td&gt;&lt;h5&gt;&lt;/td&gt;&lt;td&gt;L&lt;/td&gt;&lt;td&gt;&lt;noscript&gt;&lt;/td&gt;&lt;td&gt;R&lt;/td&gt;&lt;td&gt;&lt;sup&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;code&gt;&lt;/td&gt;&lt;td&gt;&lt;element&gt; ❖&lt;/td&gt;&lt;td&gt;&lt;h6&gt;&lt;/td&gt;&lt;td&gt;&lt;label&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;rp&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;V&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td rowspan=8&gt;В&lt;/td&gt;&lt;td&gt;3&lt;/td&gt;&lt;td&gt;&lt;col&gt;&lt;/td&gt;&lt;td&gt;&lt;em&gt;&lt;/td&gt;&lt;td&gt;&lt;head&gt;&lt;/td&gt;&lt;td&gt;&lt;legend&gt;&lt;/td&gt;&lt;td&gt;O&lt;/td&gt;&lt;td&gt;&lt;rt&gt;&lt;/td&gt;&lt;td&gt;Т&lt;/td&gt;&lt;td&gt;&lt;var&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;b&gt;&lt;/td&gt;&lt;td&gt;&lt;colgroup&gt;&lt;/td&gt;&lt;td&gt;&lt;embed&gt;&lt;/td&gt;&lt;td&gt;&lt;header&gt;&lt;/td&gt;&lt;td&gt;&lt;li&gt;&lt;li&gt;&lt;&lt;/td&gt;&lt;td&gt;&lt;object&gt;&lt;/td&gt;&lt;td&gt;&lt;ruby&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;video&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;base&gt;&lt;/td&gt;&lt;td&gt;&lt;content&gt; 🗱&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;hgroup&gt;&lt;/td&gt;&lt;td&gt;&lt;li&gt;k&gt;&lt;/td&gt;&lt;td&gt;&lt;ol&gt;&lt;li&gt;&lt;ol&gt;&lt;/li&gt;&lt;/ul&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;basefont&gt;&lt;/td&gt;&lt;td&gt;]&lt;/td&gt;&lt;td&gt;F&lt;/td&gt;&lt;td&gt;&lt;hr&gt;&lt;/td&gt;&lt;td&gt;&lt;li&gt;ting&gt;&lt;/td&gt;&lt;td&gt;&lt;optgroup&gt;&lt;/td&gt;&lt;td&gt;S&lt;/td&gt;&lt;td&gt;&gt;&lt;/td&gt;&lt;td&gt;W&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;bdi&gt;&lt;/td&gt;&lt;td&gt;D&lt;/td&gt;&lt;td&gt;&lt;fieldset&gt;&lt;/td&gt;&lt;td&gt;&lt;html&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;option&gt;&lt;/td&gt;&lt;td&gt;&lt;s&gt;&lt;/td&gt;&lt;td&gt;&lt;template&gt; 📽&lt;/td&gt;&lt;td&gt;&lt;wbr&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;bdo&gt;&lt;/td&gt;&lt;td&gt;&lt;data&gt;&lt;/td&gt;&lt;td&gt;&lt;figcaption&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;M&lt;/td&gt;&lt;td&gt;&lt;output&gt;&lt;/td&gt;&lt;td&gt;&lt;samp&gt;&lt;/td&gt;&lt;td&gt;&lt;textarea&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;bgsound&gt;&lt;/td&gt;&lt;td&gt;&lt;datalist&gt;&lt;/td&gt;&lt;td&gt;&lt;figure&gt;&lt;/td&gt;&lt;td&gt;I&lt;/td&gt;&lt;td&gt;&lt;main&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;script&gt;&lt;/td&gt;&lt;td&gt;&lt;tfoot&gt;&lt;/td&gt;&lt;td&gt;XYZ&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;br/&gt;&lt;br/&gt;&lt;br/&gt;&lt;br/&gt;&lt;/td&gt;&lt;td&gt;&lt;dd&gt;&lt;/td&gt;&lt;td&gt;&lt;font&gt;&lt;/td&gt;&lt;td&gt;&lt;i&gt;&gt;i&gt;&lt;/td&gt;&lt;td&gt;&lt;map&gt;&lt;/td&gt;&lt;td&gt;P&lt;/td&gt;&lt;td&gt;&lt;section&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;xmp&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;bli&gt;&lt;bli&gt;&lt;br/&gt;&lt;br/&gt;&lt;br/&gt;&lt;br/&gt;&lt;br/&gt;&lt;br/&gt;&lt;br/&gt;&lt;br/&lt;/td&gt;&lt;td&gt;&lt;decorator&gt; 📽&lt;/td&gt;&lt;td&gt;&lt;footer&gt;&lt;/td&gt;&lt;td&gt;&lt;iframe&gt;&lt;/td&gt;&lt;td&gt;&lt;mark&gt;&lt;/td&gt;&lt;td&gt;&lt;&lt;/td&gt;&lt;td&gt;&lt;select&gt;&lt;/td&gt;&lt;td&gt;&lt;thead&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;marquee&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;shadow&gt; ◘&lt;/td&gt;&lt;td&gt;Circuit&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>



# Questions?

# A Shallow Dive into Image Embedding

#### Image tag

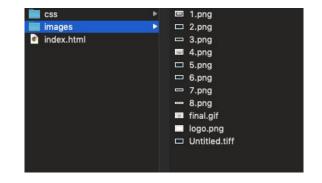
```
<!doctype html>
<html>
      <!-- this itself is a comment -->
      <!-- your webpage content goes inside the body -->
      Welcome to WDD!
      <img src="wdd.png" />
  </body>
</html>
```

#### What is an image tag?

- Embeds an image on the web page
- You can put a link to the image in the src property (make sure to include the file extension — .jpg, .png, .gif
- The link is CaSe-SeNsItIvE
   Double check if it's WDD.JPG or wdd.jpg

# For your homework — One way to link images

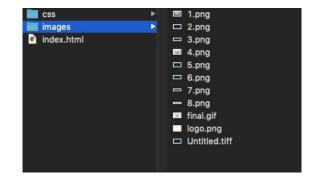
- Navigate -> to the folder that contains your **index.html** file
- Create or find an **images** folder as shown.
- Insert images and name them whatever you like, but make sure to include the file extension (.jpg, .png, etc)
- Insert the following in your index.html file
- <img src= "./images/[YOUR FILE NAME HERE]" />
- Example: <img src= "./images/wdd.png" />
- We'll cover what this means in a later lecture!



example of a file directory

# For your homework

- Homework 1 is released tonight and is due next Monday 7pm.
- It covers basic syntax of HTML and will guide you through making your first website.
- Find it on WDD Portal!
- Feel free to ask questions on Piazza!



example of a file directory

What is HTML?

What does it look like?

How do we use it?

#### **HTML Practice**

tinyurl.com/wed-html-demo

#### That's all folks!

# Helpful links

#### **HTML Tag references:**

- MDN Web Docs: HTML elements reference
- W3Schools: HTML reference
- ► Bookmark these for later! ^^

#### Deep think

- How does this parent-child hierarchy constrain our design?
- Self closing tags are much less common than paired tags, why?
- Theoretically, we could just use the div tag (except maybe head and body and html).
   Why do we then have other tags?
- (Deeper) We can observe the parent-child relationship in HTML is similar to that in a tree data structure. What's the root of this tree? What are the advantages (and disadvantages) of such a data structure that led people to design HTML this way?
- (Deeper) Based on what we've learned, design your "HTML" (as a language) so that we can better facilitate the design process. Which data structure would you base your design on?