

WEB DESIGN DECAL

LECTURE 1

---

# HTML Basics

Getting started with HTML, CSS, and Javascript

HTML is nothin' but tags.

# Anatomy of an HTML tag

---

<body></body>

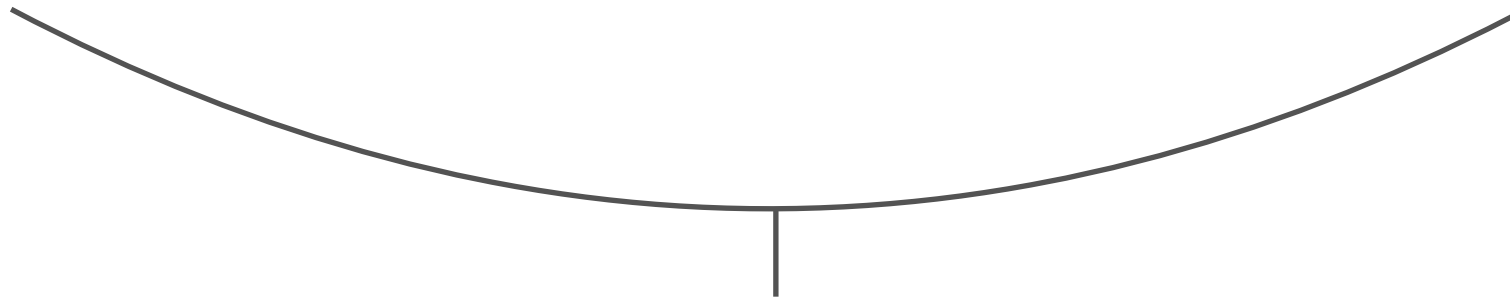


The HTML tag

# Anatomy of an HTML tag

---

`<body>Stuff goes here</body>`



The HTML element

# Anatomy of an HTML document

---

```
<html>  
  <head></head>  
  
  <body></body>  
</html>
```

# What goes where?

---

## <head>

Title of page

Links to CSS and JS files

Links to fonts







Author(s) of page

## <body>

Everything else

Very exciting.

The symbol  indicates that the element is defined in the [Web Components](#) collection of specifications.

A	<code>&lt;blockquote&gt;</code>	<code>&lt;del&gt;</code>	<code>&lt;form&gt;</code>	<code>&lt;img&gt;</code>	<code>&lt;menu&gt;</code>	<code>&lt;param&gt;</code>	<code>&lt;small&gt;</code>	<code>&lt;time&gt;</code>
	<code>&lt;a&gt;</code>	<code>&lt;body&gt;</code>	<code>&lt;details&gt;</code>	<code>&lt;frame&gt;</code>	<code>&lt;input&gt;</code>	<code>&lt;picture&gt;</code>	<code>&lt;source&gt;</code>	<code>&lt;title&gt;</code>
	<code>&lt;abbr&gt;</code>	<code>&lt;br&gt;</code>	<code>&lt;dfn&gt;</code>	<code>&lt;frameset&gt;</code>	<code>&lt;ins&gt;</code>	<code>&lt;plaintext&gt;</code>	<code>&lt;spacer&gt;</code>	<code>&lt;tr&gt;</code>
	<code>&lt;acronym&gt;</code>	<code>&lt;button&gt;</code>	<code>&lt;dialog&gt;</code>	<code>&lt;isindex&gt;</code>	<code>&lt;meta&gt;</code>	<code>&lt;pre&gt;</code>	<code>&lt;span&gt;</code>	<code>&lt;track&gt;</code>
	<code>&lt;address&gt;</code>	<code>&lt;div&gt;</code>	<code>&lt;dir&gt;</code>		<code>&lt;meter&gt;</code>	<code>&lt;progress&gt;</code>	<code>&lt;strike&gt;</code>	<code>&lt;tt&gt;</code>
	<code>&lt;applet&gt;</code>						<code>&lt;strong&gt;</code>	
B	<code>&lt;area&gt;</code>	<code>&lt;canvas&gt;</code>	<code>&lt;d1&gt;</code>	<code>&lt;h1&gt;</code>	<code>&lt;kbd&gt;</code>	<code>&lt;nav&gt;</code>	<code>&lt;style&gt;</code>	<code>&lt;u&gt;</code>
	<code>&lt;article&gt;</code>	<code>&lt;caption&gt;</code>	<code>&lt;dt&gt;</code>	<code>&lt;h2&gt;</code>	<code>&lt;keygen&gt;</code>	<code>&lt;q&gt;</code>	<code>&lt;sub&gt;</code>	<code>&lt;ul&gt;</code>
	<code>&lt;aside&gt;</code>	<code>&lt;center&gt;</code>		<code>&lt;h3&gt;</code>		<code>&lt;nobr&gt;</code>	<code>&lt;summary&gt;</code>	
	<code>&lt;audio&gt;</code>	<code>&lt;cite&gt;</code>	<code>&lt;element&gt; </code>	<code>&lt;h4&gt;</code>	<code>&lt;label&gt;</code>	<code>&lt;noframes&gt;</code>	<code>&lt;sup&gt;</code>	
		<code>&lt;code&gt;</code>	<code>&lt;em&gt;</code>	<code>&lt;h5&gt;</code>	<code>&lt;legend&gt;</code>	<code>&lt;noscript&gt;</code>	<code>&lt;table&gt;</code>	<code>&lt;var&gt;</code>
		<code>&lt;col&gt;</code>	<code>&lt;embed&gt;</code>	<code>&lt;h6&gt;</code>	<code>&lt;li&gt;</code>	<code>&lt;rp&gt;</code>	<code>&lt;tbody&gt;</code>	<code>&lt;video&gt;</code>
C	<code>&lt;colgroup&gt;</code>	<code>&lt;content&gt; </code>		<code>&lt;head&gt;</code>	<code>&lt;link&gt;</code>	<code>&lt;rt&gt;</code>	<code>&lt;td&gt;</code>	
				<code>&lt;header&gt;</code>	<code>&lt;listing&gt;</code>	<code>&lt;ruby&gt;</code>	<code>&lt;template&gt; </code>	<code>&lt;wbr&gt;</code>
	<code>&lt;basefont&gt;</code>			<code>&lt;hgroup&gt;</code>	<code>&lt;ol&gt;</code>		<code>&lt;textarea&gt;</code>	
	<code>&lt;bdi&gt;</code>			<code>&lt;hr&gt;</code>	<code>&lt;optgroup&gt;</code>	<code>&lt;s&gt;</code>	<code>&lt;tfoot&gt;</code>	
	<code>&lt;bdo&gt;</code>			<code>&lt;html&gt;</code>	<code>&lt;option&gt;</code>	<code>&lt;samp&gt;</code>	<code>&lt;th&gt;</code>	
	<code>&lt;bgsound&gt;</code>				<code>&lt;output&gt;</code>	<code>&lt;script&gt;</code>	<code>&lt;thead&gt;</code>	
D	<code>&lt;big&gt;</code>					<code>&lt;section&gt;</code>		
	<code>&lt;blink&gt;</code>	<code>&lt;decorator&gt; </code>				<code>&lt;select&gt;</code>		
						<code>&lt;shadow&gt; </code>		
E		<code>&lt;fieldset&gt;</code>						
		<code>&lt;figcaption&gt;</code>						
		<code>&lt;figure&gt;</code>						
		<code>&lt;font&gt;</code>						
		<code>&lt;footer&gt;</code>						
F	<code>&lt;data&gt;</code>							
	<code>&lt;datalist&gt;</code>							
	<code>&lt;dd&gt;</code>							
	<code>&lt;decorator&gt; </code>							
G								
H								
I								
J								
K								
L								
M								
N								
O								
P								
Q								
R								
S								
T								
U								
V								
W								
X								
Y								
Z								

All of HTML in one slide



# What do these tags do?

---

jsbin.com

<h1></h1>

<b></b>

<em></em>

<a></a>

<img>

<link>

<p> </p>

# What do these tags do?

---

<h1> D:< </h1>

D:<

# What do these tags do?

---

`<b>I 'M MAD</b>`

**I'M MAD**

`I 'm <em>fancy</em>`

*I'm fancy*

`<em><b>`

`I 'm MADLY FANCY`

***I'm MADLY FANCY***

`</b></em>`

# What do these tags do?

---

```
<a href="http://www.wdd.io">  
  best class ever  
</a>
```

[best class ever](http://www.wdd.io)

# What do these tags do?

---

```

```

<DIV>Q: HOW DO YOU ANNOY A WEB DEVELOPER?</SPAN>

# What do these tags do?

---

`<p>What could p stand for?</p>`

What could p stand for?

What'd it do?

The p (paragraph) tag created an invisible “box” element around my text.



<div>

To be continued...

# Relative Paths and Absolute Paths

---

You can use two types of paths:

## Absolute Path

Complete path to a file

Ex.: `http://www.wdd.io` (a webpage URL)

Ex.: `Users/qin/Desktop/images/letstakeaseelfie.jpg`

## Relative Path

Path to a file relative to current file

Ex.: `images/letstakeaseelfie.jpg`

^ Assumes you're in the Desktop folder

# Relative paths and absolute paths

---



letstakeaselfie.jpg

In web design, we mostly use **relative paths**.  
So it works on other people's computers!

# Using relative paths

---

```
workspace/  
├── index.html  
├── about.html  
├── css/  
    └── site.css
```

How would you access **site.css** from **index.html**?

# Using relative paths

---

```
workspace/  
├── index.html  
├── about.html  
└── css/  
    └── site.css
```

`css/site.css`

To go up a folder, use `../`



# Using relative paths

---

```
C:/  
├── workspace/  
│   ├── index.html  
│   ├── about.html  
│   └── css/  
│       └── site.css  
└── decal.html
```

How would you access **decal.html** from **index.html**?

# Using relative paths

---

```
C:/
├── workspace/
│   ├── index.html
│   ├── about.html
│   └── css/
│       └── site.css
└── decal.html
```

../decal.html

# Developer environment

---

In this class, we refer to the developer environment as the way you organize the file structure of your website.

# Developer environment we will use

---

```
workspace/  
├── index.html  
├── assets/  
│   ├── js/  
│   │   └── site.js  
│   ├── css/  
│   │   └── site.css  
│   └── images/  
│       └── image1.png
```

# What do I use to make a website?

---

## Web Browser

Chrome  
Firefox  
Safari  
IE (sadly)

## Code Editor

Sublime Text  
TextWrangler  
Brackets

## Prototyping

Photoshop  
Keynote  
Powerpoint  
Sketch

# Web design workflow

---

## 1. HTML

Write the structure in a code editor

## 2. CSS

Stylize the website using Web Inspector

## 3. JS

Add the missing functionality in a code editor

# Web inspector

---

Allows you to test your designs as you modify the CSS in web browser

You can try different pixel values and color options risk-free

No need to save, reload, etc.

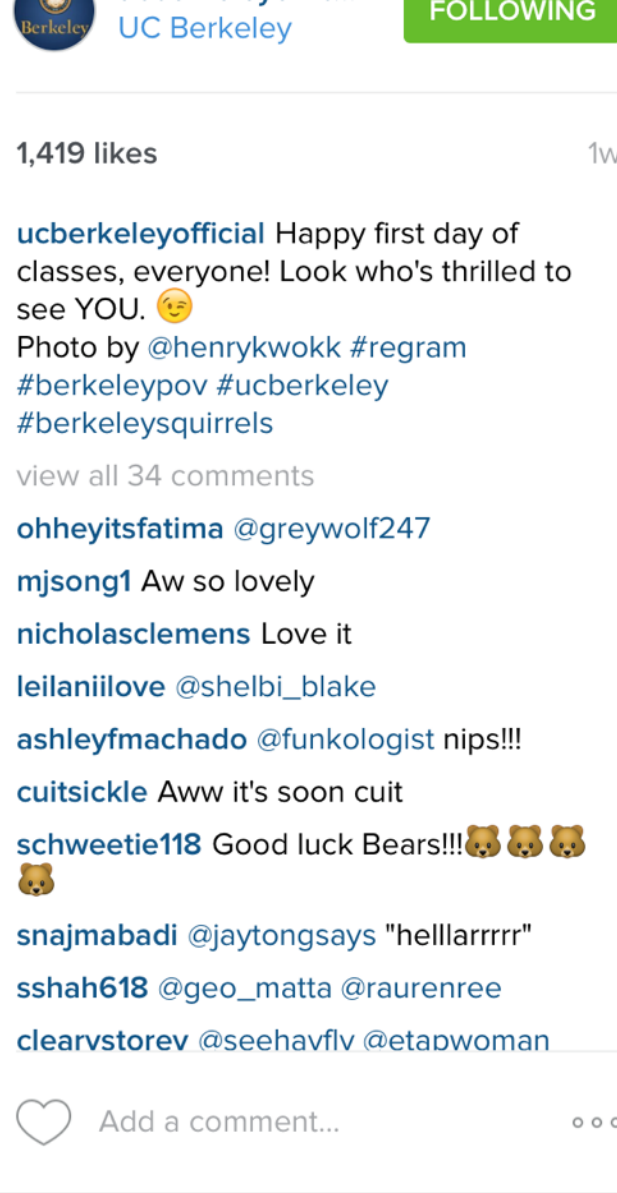
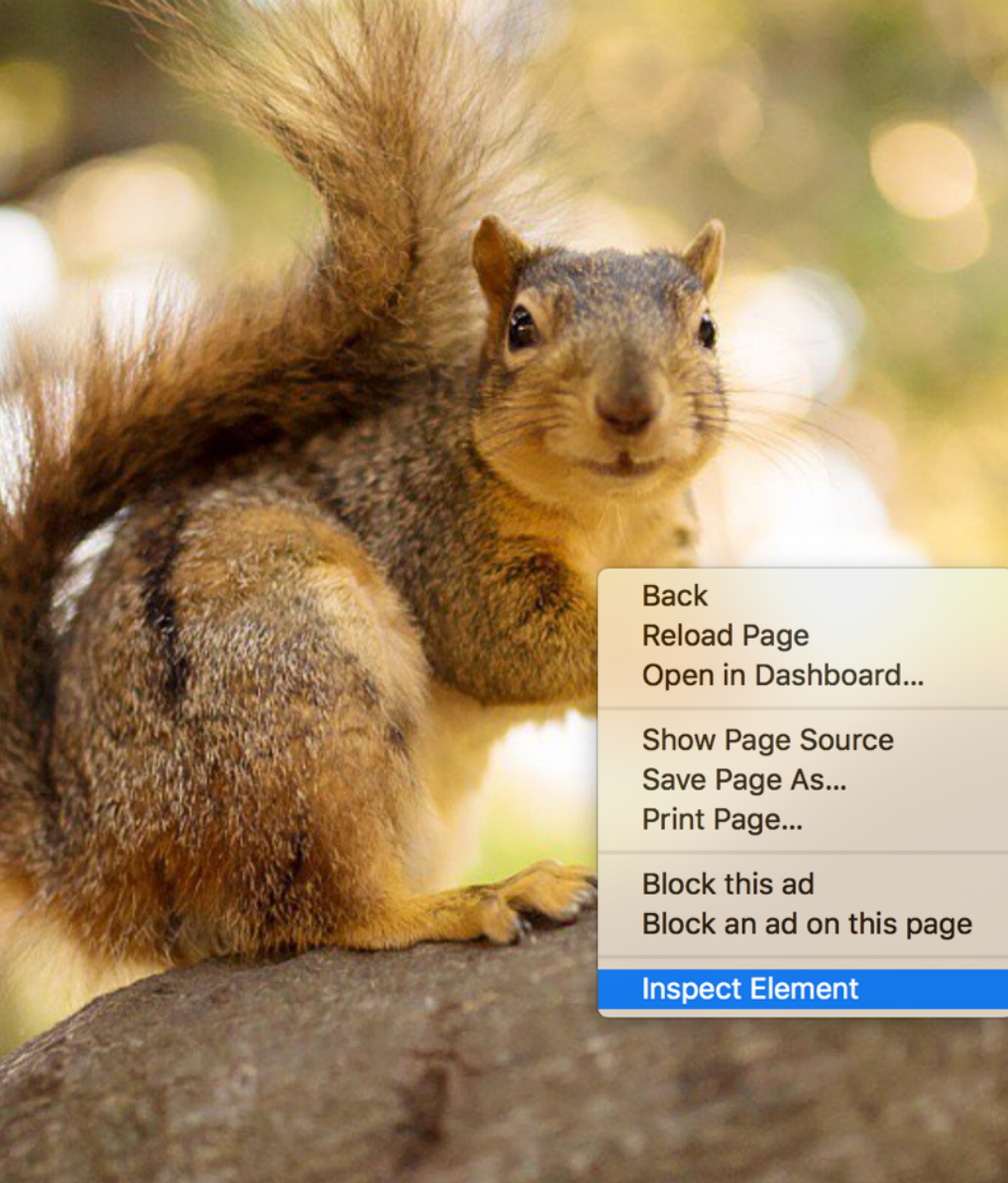
Allows you to learn from other people's work

Other functionalities include:

Mobile device emulator

Browser compatibility test

Javascript console



How to open Web Inspector

Right click → Inspect Element



Developer Tools - https://instagram.com/p/627TAtkDfy/

Elements Network Sources Timeline Profiles Resources Audits Console React

Styles Computed Event Listeners »

Filter

element.style {

```

.-cx-PRIVATE-Photo_clickShield, .-cx-PRIVATE-Photo_likeAnimationWrapper {
  bottom: 0;
  left: 0;
  position: absolute;
  right: 0;
  top: 0;
}

```

article, div, footer, header, main, <style>\_</style>  
nav, section, #react-root {

```

-webkit-box-align: stretch;
-webkit-align-items: stretch;
-ms-flex-align: stretch;
align-items: stretch;
border: 2px solid #000;
box-sizing: border-box;
display: -webkit-box;
display: -webkit-flex;
display: -ms-flex-box;
display: flex;
-webkit-box-orient: vertical;
-webkit-box-direction: normal;
-webkit-flex-direction: column;
-ms-flex-direction: column;
flex-direction: column;
-webkit-flex-shrink: 0;
-ms-flex-negative: 0;
flex-shrink: 0;
margin: 0;
padding: 0;
position: relative;
}

```

html, body, div, span, applet, <style>\_</style>  
object, iframe, h1, h2, h3, h4, h5, h6, p,  
blockquote, pre, a, abbr, acronym, address, big,  
cite, code, del, dfn, em, img, ins, kbd, q, s, samp,  
small, strike, strong, sub, sup, tt, var, b, u, i,  
center, dl, dt, dd, ol, ul, li, fieldset, form,  
label, legend, table, caption, tbody, tfoot, thead,  
tr, th, td, article, aside, canvas, details, embed,  
figure, figcaption, footer, header, hgroup, menu,  
nav, output, ruby, section, summary, time, mark,  
audio, video {

HTML CSS

Console Search Emulation Rendering

Filter ☐ Regex ☐ Hide network messages ☒ All Errors Warnings Info Logs Debug Handled

ack="about">

09.6px;">

Filter

New Style Rule

element.style {

}

.slide-overlay {

}

inspector-stylesheet:3

.slide-overlay {

background-image: url('../icons/inspiration-geometry.png');

opacity: 0.5;

width: 100%;

height: 100%;

position: absolute;

top: 0px;

}

promotional.css:122

div {

display: block;

}

user agent stylesheet

Inherited from body

body {

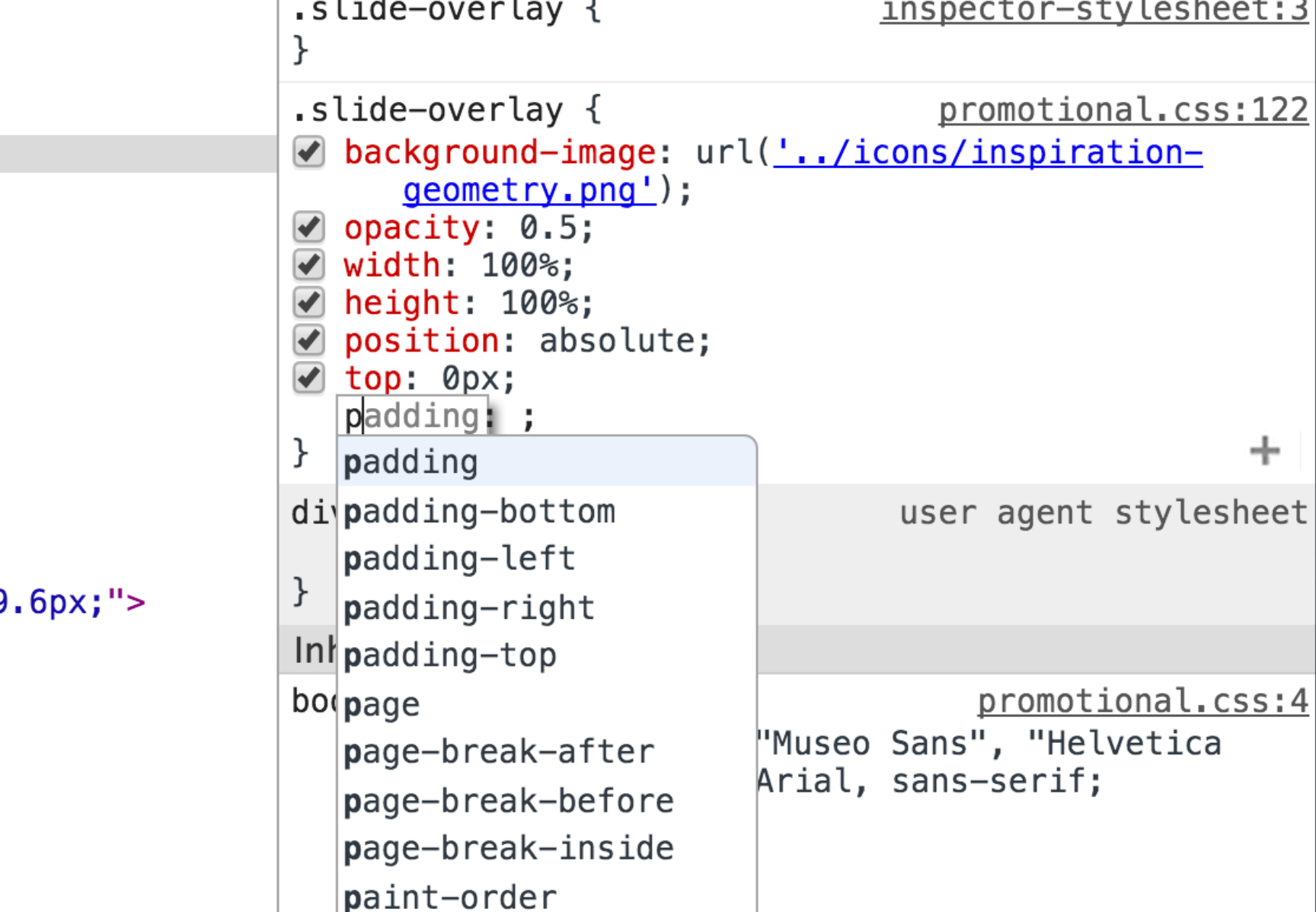
font-family: "Lato", "Museo Sans", "Helvetica Neue", Helvetica, Arial, sans-serif;

}

promotional.css:4

Adding a new CSS style

Click on the '+' icon



Modifying an existing CSS style

Click the empty space

Demo

# Web inspector workflow

---

1. Open web inspector using **Inspect Element**
2. Find element you want to edit & modify CSS
3. Fiddle around until it looks good
4. Take the final code to the **Code Editor**

# Web design workflow

---

## 1. HTML

Write the structure in a code editor

## 2. CSS

Stylize the website using Web Inspector

## 3. JS

Add the missing functionality in a code editor

# Summary

---

Class logistics

Very basics of HTML

The almighty Web Inspector