

# the cascade of styles

let's make documents that don't look like this  
slide!

Making things look  
interesting

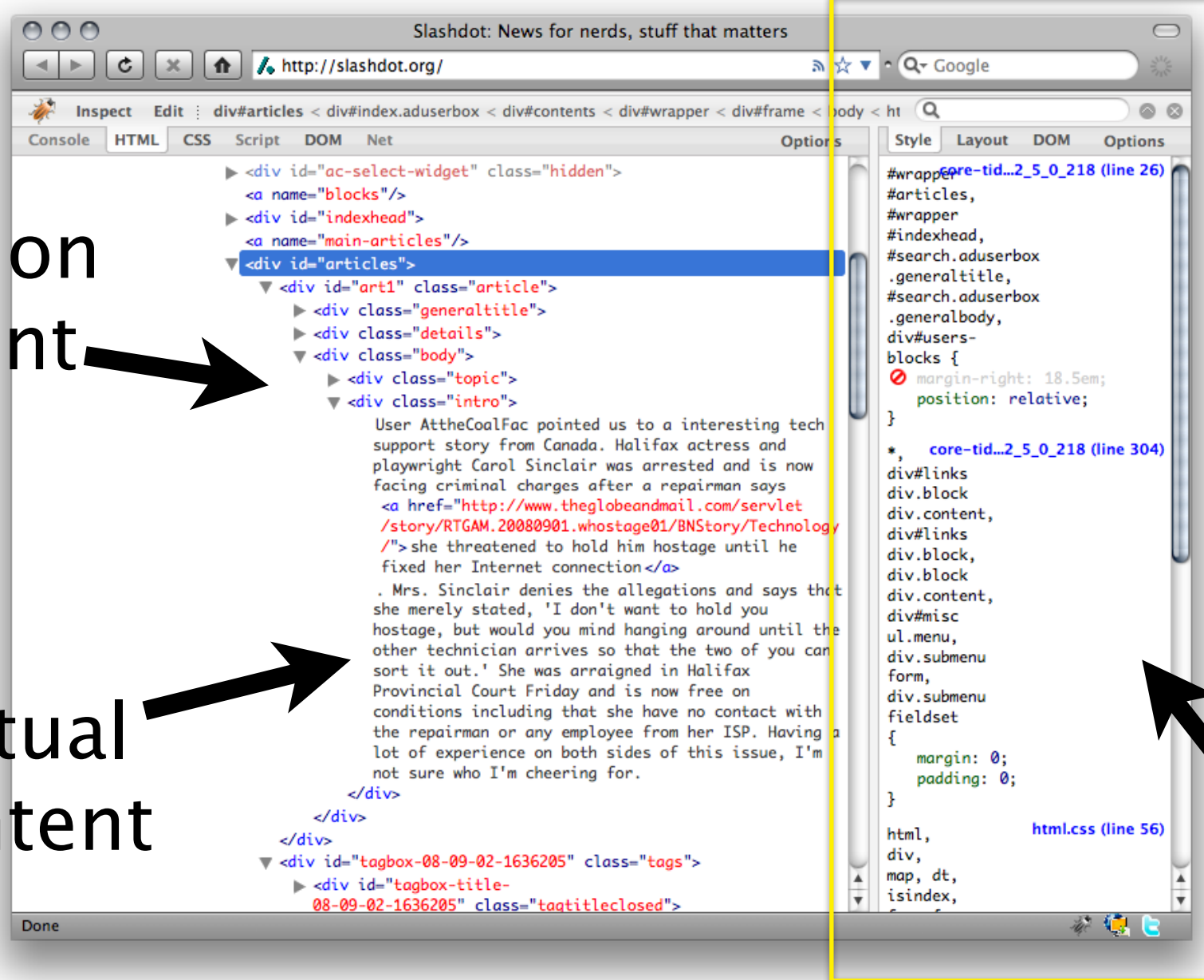
# What does it mean to style a document?

- Literally, to apply style
- Replaces the browser's default styling with your own
- Create the “presentation” layer of your html

Description  
of content

Actual  
content

Presentation  
Information



# Computer

## Welcome to the first post of the rest of this blog

September 15th, 2008

With a default installation of [wordpress](#), we can finally start discussing the intricacies of the web in the most relevant medium: the web.

One of the most important parts of the first section of this class is the basic understanding of information. Specifically, a semantic representation of information as tagged by xhtml. At the moment, this site has no more visual appeal than that of what we've covered in class, which is to say none.

The purpose of this lackluster appearance is to emphasize the value of proper hierarchical representation of information. Despite there being absolutely no visual styling, the default behavior of tags in a browser and the accurate representation of content within the most appropriate tag ensures that this content is entirely readable.

When content is properly expressed with xhtml, no matter how poorly styled the content is, the meaning of the information is still correctly interpretable. This is the fundamental purpose of semantic markup.

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# Unstyled HTML

# Cooper Union

Cooper Union's 305.1 XHTML / CSS / PHP class blog

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With a default installation of [wordpress](#), we can finally start discussing the intricacies of the web in the most relevant medium: the web.

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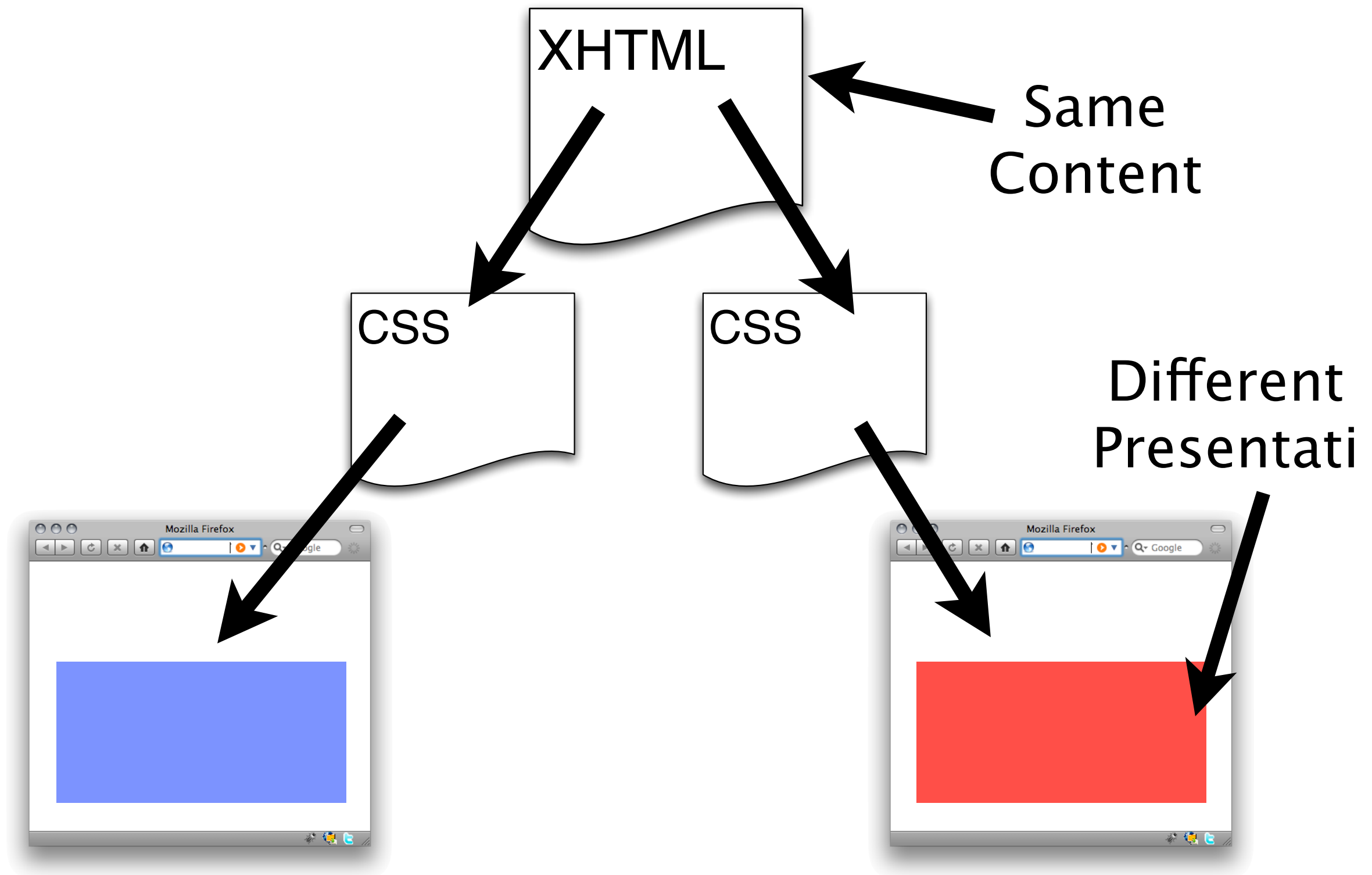
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### Meta

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» [Valid XHTML](#)  
» [XFN](#)  
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Cooper Union is proudly powered by [WordPress](#)  
[Entries \(RSS\)](#) and [Comments \(RSS\)](#).

# Styled HTML



# Browser-specific

# Tools of the trade

(really, there's only one tool you'll ever use)



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	LAST	CHG	%CHG	RANGE: 1 DAY
DJIA	15494.78	+118.72	0.77%	15550

Elements Resources Network Sources Timeline Profiles Audits Console

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xmlns:fb="http://www.facebook.com/2008/fbml" xmlns:og="http://ogp.me/ns#" xml:lang="en" lang="en" class="wf-kulturistaweb-i6-active wf-kulturistaweb-n7-active wf-kulturistaweb-i7-active wf-kulturistaweb-n1-active wf-kulturistaweb-i1-active wf-kulturistaweb-n3-active wf-kulturistaweb-i3-active wf-kulturistaweb-n4-active wf-kulturistaweb-i4-active wf-kulturistaweb-n6-active wf-active dj_webkit dj_chrome dj_contentbox">
  <head>...</head>
  <body>
    <a name="top"></a>
    <div class="fullwide pagewide subType-subscribed sectionType-none">
      <div class="mainHeader">...</div>
      <div class="contentwide">...</div>
      <div class="pagewide">...</div>
      <noscript>...</noscript>
    </div>
```

Computed Style Show inherited

Styles

element.style { }

Matched CSS Rules

.contentwide { width: 993px; margin: 0 auto; }

.contentwide { width: 993px; margin: 0 auto; }

html body div.fullwide.pagewide.subType-subscribed.sectionType-none div.contentwide

604 58

Google Chrome Inspector

# Inspector?

- A part of Google Chrome (and Apple's Safari, with an equivalent in Firefox and IE)
- A tool for examining web pages
- Useful for quickly finding what you want to style
- Useful for quickly understanding a document's structure

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Nasdaq	3717.85	-4.34	0.12%	15495
S&P 500	1697.60	+9.61	0.57%	
Global Dow	2317.88	+19.59	0.85%	
FTSE 100	6622.86	+39.06	0.59%	15381
Nikkei 225	14404.67	+17.40	0.12%	

10a 12p 2p  
9/16/13 4:34 PM EDT

Include my portfolio here. (no thanks)

Market Data MoneyBeat Watchlist Portfolio Customize Pop Out

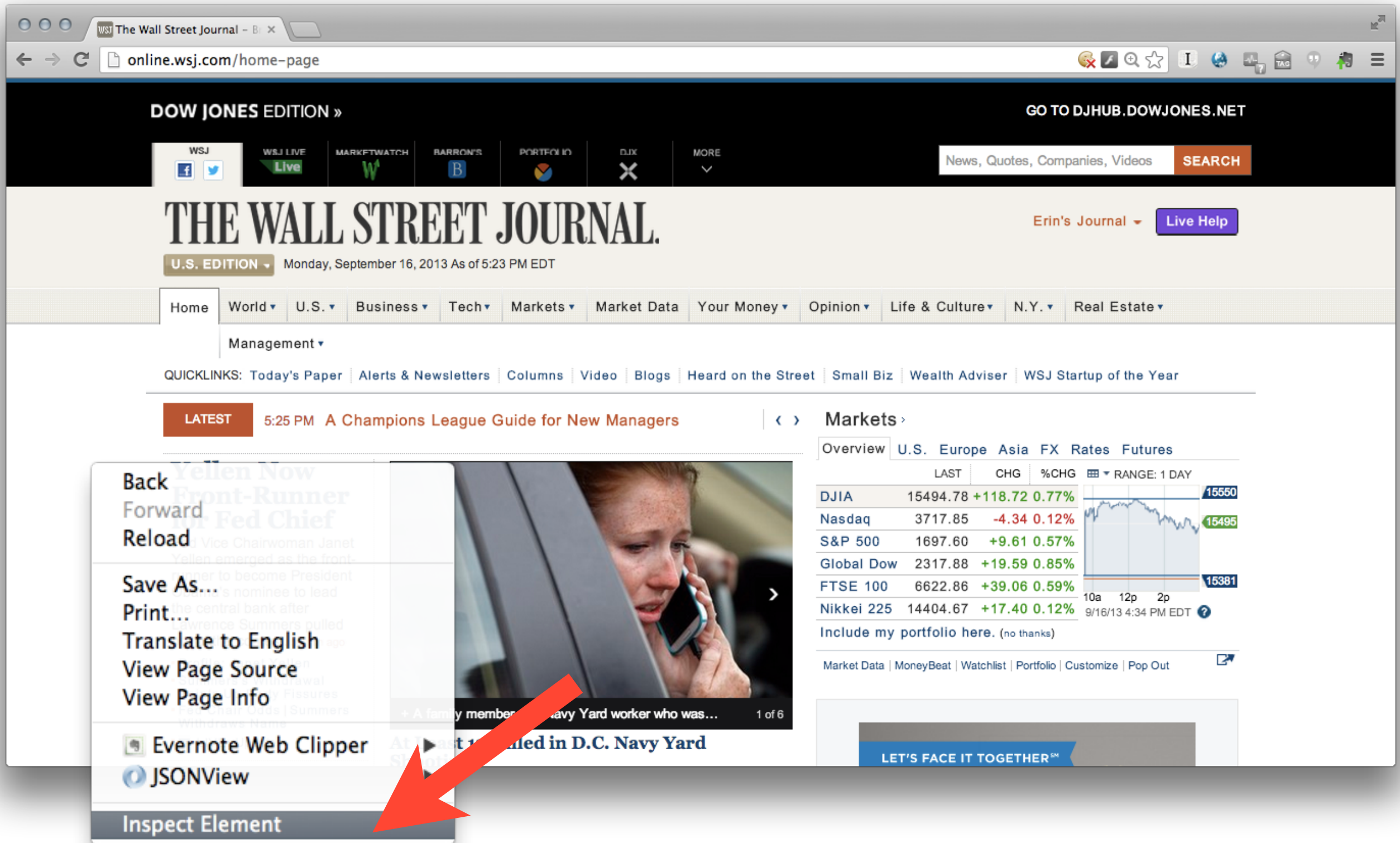
LET'S FACE IT TOGETHER™

Back Forward Reload

Save As...  
Print...  
Translate to English  
View Page Source  
View Page Info

Evernote Web Clipper  
JSONView

Inspect Element



# Using Inspector

# Inspector Demo

# Declaring Styles

Finally!

# Different ways of declaring styles

- `<Style>` tag
- Style attribute
- External file



The most common  
configuration

# Writing Styles

# Stylesheet Syntax Overview

- Totally different than html syntax
- Contains absolutely no structure
- Contains only style



# Declaring a Style

- Selector
- Attribute
- Value

# Stylesheet `<style>` Syntax

tag, id, class  
or combination  
of all 3

selector {  
attribute:value;  
}

almost as many  
attributes as there  
are html tags

# Stylesheet External Syntax

```
html {  
  background-color: #ff0000;  
}
```

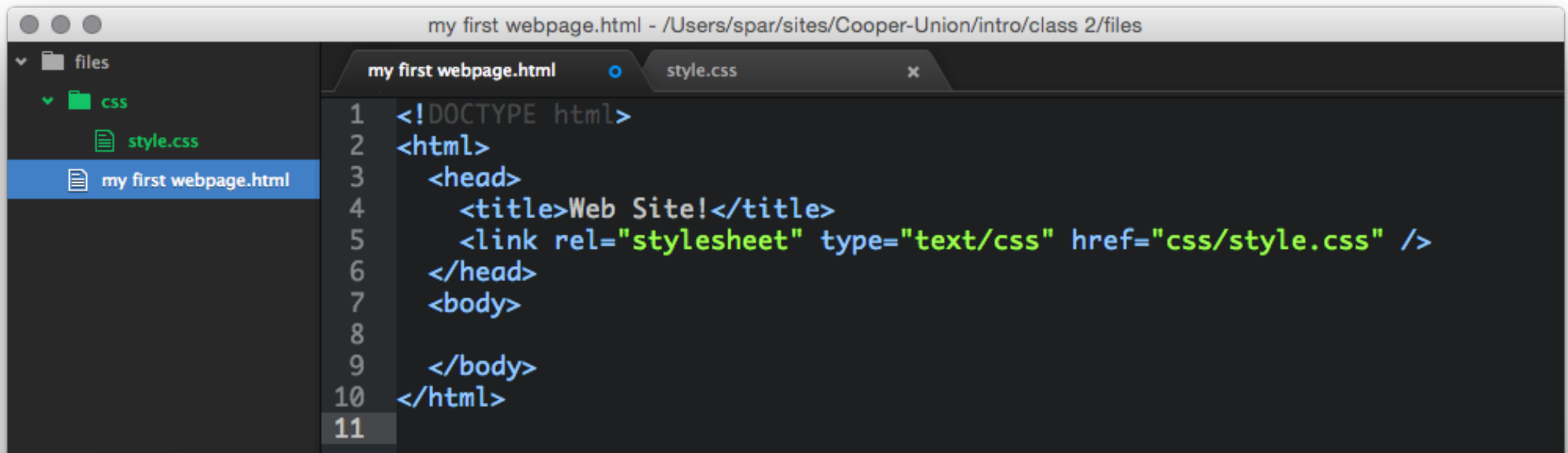


Red hex value

# Declaring a Style

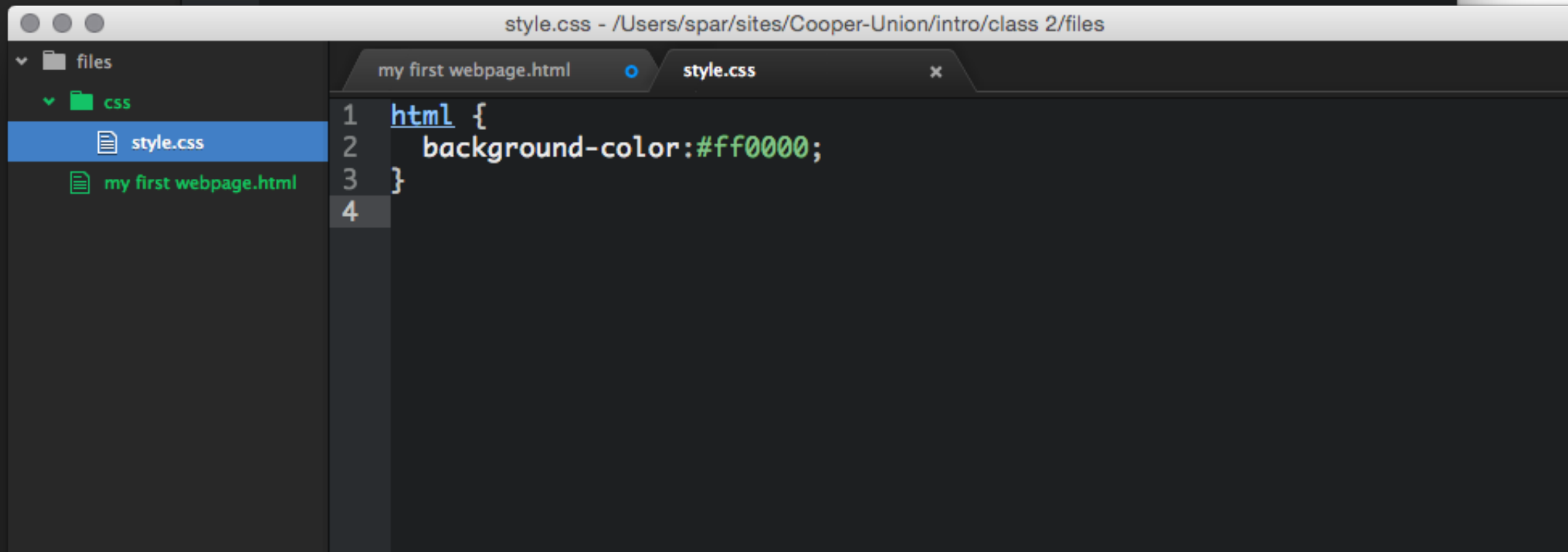
- Selector – A selection of an HTML document
- Attribute – The feature of the HTML element you'd like to style
- Value – The value of the feature

# Folder and Documents Setup



This screenshot shows a code editor window titled 'my first webpage.html - /Users/spar/sites/Cooper-Union/intro/class 2/files'. The left sidebar displays a file tree with a 'files' folder containing a 'css' subfolder. The 'css' folder contains 'style.css', and the 'files' folder contains 'my first webpage.html'. The main editor area shows the HTML code for 'my first webpage.html' with line numbers 1 through 11. The code includes a DOCTYPE declaration, an HTML tag, a head section with a title 'Web Site!' and a link to 'css/style.css', and an empty body section.

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Web Site!</title>
5     <link rel="stylesheet" type="text/css" href="css/style.css" />
6   </head>
7   <body>
8
9   </body>
10 </html>
11
```



This screenshot shows a code editor window titled 'style.css - /Users/spar/sites/Cooper-Union/intro/class 2/files'. The left sidebar displays a file tree with a 'files' folder containing a 'css' subfolder. The 'css' folder contains 'style.css', and the 'files' folder contains 'my first webpage.html'. The main editor area shows the CSS code for 'style.css' with line numbers 1 through 4. The code defines a style for the 'html' element, setting the background color to red (#ff0000).

```
1 html {
2   background-color:#ff0000;
3 }
4
```

# Basic Attributes

# Basic Style Attributes

- background-color
- border
- color

# The background-color

```
selector {  
  background-color: orange;  
}
```



```
<html>
<head>
  <style type="text/css" media="screen">
    p {
      background-color:orange;
    }
  </style>
</head>
<body>
  <p>This is where I'd put lorem ipsum text if I had
  <a href="http://adobe.com/inDesign/">inDesign</a>
  installed so I could use the lorem ipsum text
  generator.  Instead, this is just an example of
  multiple sentences that one could then use to infer
  the presence of a paragraph of text.</p>
</body>
</html>
```

This is where I'd put lorem ipsum text if I had [inDesign](#) installed so I could use the lorem ipsum text generator. Instead, this is just an example of multiple sentences that one could then use to infer the presence of a paragraph of text.

# The color Attribute

```
selector {  
  color:orange;  
}
```

```
<html>
<head>
  <style type="text/css" media="screen">
    p {
      color:orange;
    }
  </style>
</head>
<body>
  <p>This is where I'd put lorem ipsum text if I had
  <a href="http://adobe.com/inDesign/">inDesign</a>
  installed so I could use the lorem ipsum text
  generator.  Instead, this is just an example of
  multiple sentences that one could then use to infer
  the presence of a paragraph of text.</p>
</body>
</html>
```

This is where I'd put lorem ipsum text if I had [inDesign](#) installed so I could use the lorem ipsum text generator. Instead, this is just an example of multiple sentences that one could then use to infer the presence of a paragraph of text.

# The border Attribute

```
selector {  
  border: width style color;  
}
```

```
<html>
<head>
  <style type="text/css" media="screen">
    p {
      border:1px solid orange;
    }
  </style>
</head>
<body>
  <p>This is where I'd put lorem ipsum text if I had
  <a href="http://adobe.com/inDesign/">inDesign</a>
  installed so I could use the lorem ipsum text
  generator.  Instead, this is just an example of
  multiple sentences that one could then use to infer
  the presence of a paragraph of text.</p>
</body>
</html>
```

This is where I'd put lorem ipsum text if I had [inDesign](#) installed so I could use the lorem ipsum text generator. Instead, this is just an example of multiple sentences that one could then use to infer the



# More border details

```
selector {  
  border-top: width style color;  
  border-right: width style color;  
  border-bottom: width style color;  
  border-left: width style color;  
}
```

```
<html>
<head>
  <style type="text/css" media="screen">
    p {
      border-top:4px solid orange;
      border-bottom:2px dotted #000000;
    }
  </style>
</head>
<body>
  <p>This is where I'd put lorem ipsum text if I had
  <a href="http://adobe.com/inDesign/">inDesign</a>
  installed so I could use the lorem ipsum text
  generator.  Instead, this is just an example of
  multiple sentences that one could then use to infer
  the presence of a paragraph of text.</p>
</body>
</html>
```

---

This is where I'd put lorem ipsum text if I had [inDesign](#) installed so I could use the lorem ipsum text generator. Instead, this is just an example of multiple sentences that one could then use to infer the

---

# Even more border details

```
selector {  
  border-top-width: value;  
  border-top-style: value;  
  border-top-color: value;  
}
```

```
<html>
<head>
  <style type="text/css" media="screen">
    p {
      border-top-color:orange;
      border-top-width:4px;
      border-top-style:solid;
      border-bottom:2px dotted #000000;
    }
  </style>
</head>
<body>
  <p>This is where I'd put lorem ipsum text if I had
  <a href="http://adobe.com/inDesign/">inDesign</a>
  installed so I could use the lorem ipsum text
  generator.  Instead, this is just an example of
  multiple sentences that one could then use to infer
  the presence of a paragraph of text.</p>
</body>
</html>
```

---

This is where I'd put lorem ipsum text if I had [inDesign](#) installed so I could use the lorem ipsum text generator. Instead, this is just an example of multiple sentences that one could then use to infer the

---

# Mixed border details

```
selector {  
  border: width style color;  
  border-top-style: style;  
  border-bottom-color: color;  
  border-left-width: width;  
}
```

```
<html>
<head>
  <style type="text/css" media="screen">
    p {
      border:1px solid orange;
      border-top-width: 8px;
    }
  </style>
</head>
<body>
  <p>This is where I'd put lorem ipsum text if I had
  <a href="http://adobe.com/inDesign/">inDesign</a>
  installed so I could use the lorem ipsum text
  generator.  Instead, this is just an example of
  multiple sentences that one could then use to infer
  the presence of a paragraph of text.</p>
</body>
</html>
```



This is where I'd put lorem ipsum text if I had [inDesign](#) installed so I could use the lorem ipsum text generator. Instead, this is just an example of multiple sentences that one could then use to infer the

## Assignment: Style your document

Use your previously-created html document and style it using a stylesheet.

- Use borders, background-color and color
- Target multiple different types of tags in your document
- Use the `<link>` tag to link to an external stylesheet