

**UX LAB**

# **CSS FOR DESIGNERS**

Presented by: Jaret Stezelberger + Matthew Tobiasz

August 24<sup>th</sup>, 2015

# BEFORE WE START

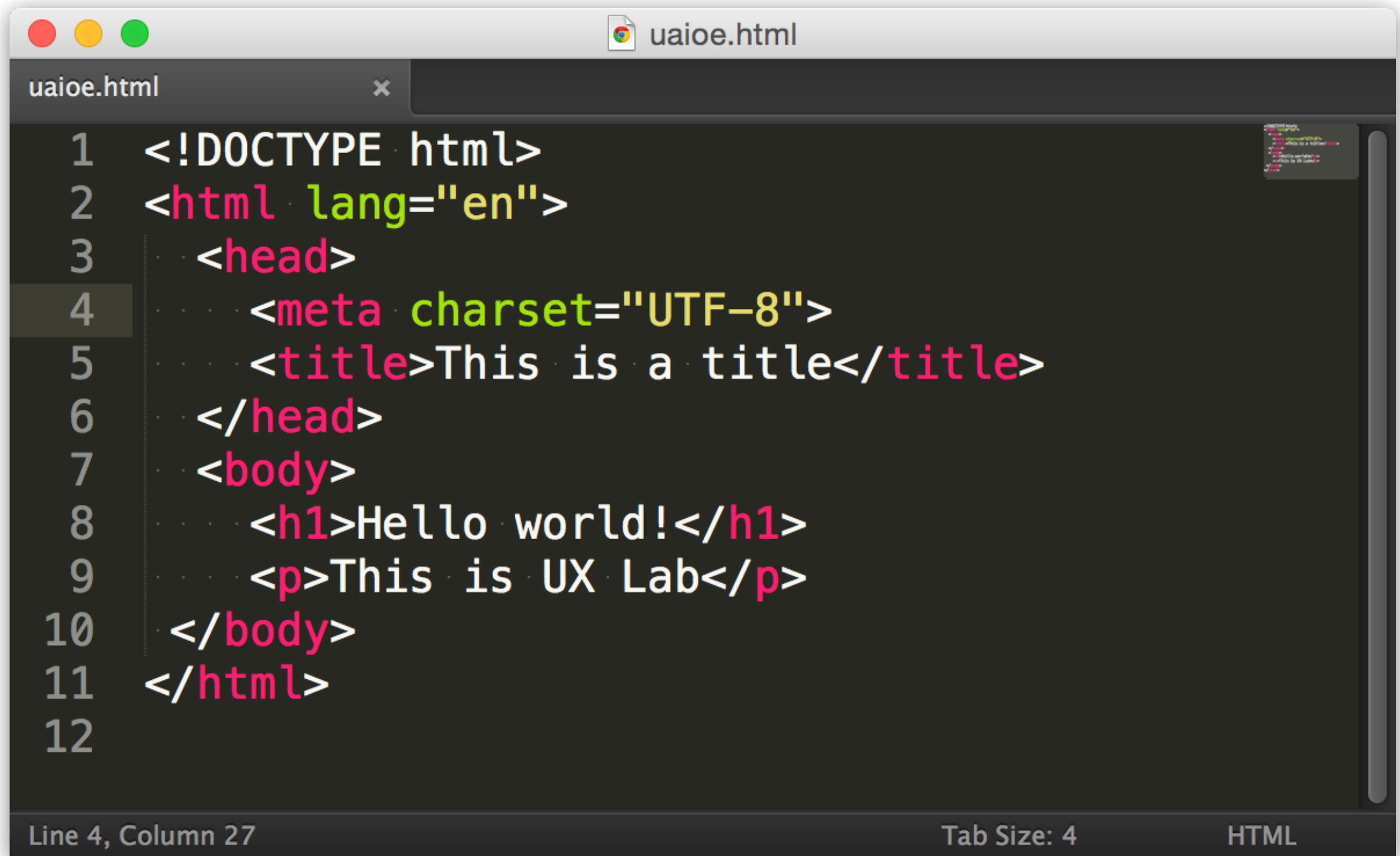
---

HTML5

# HTML



# HYPERTEXT MARKUP LANGUAGE (HTML)



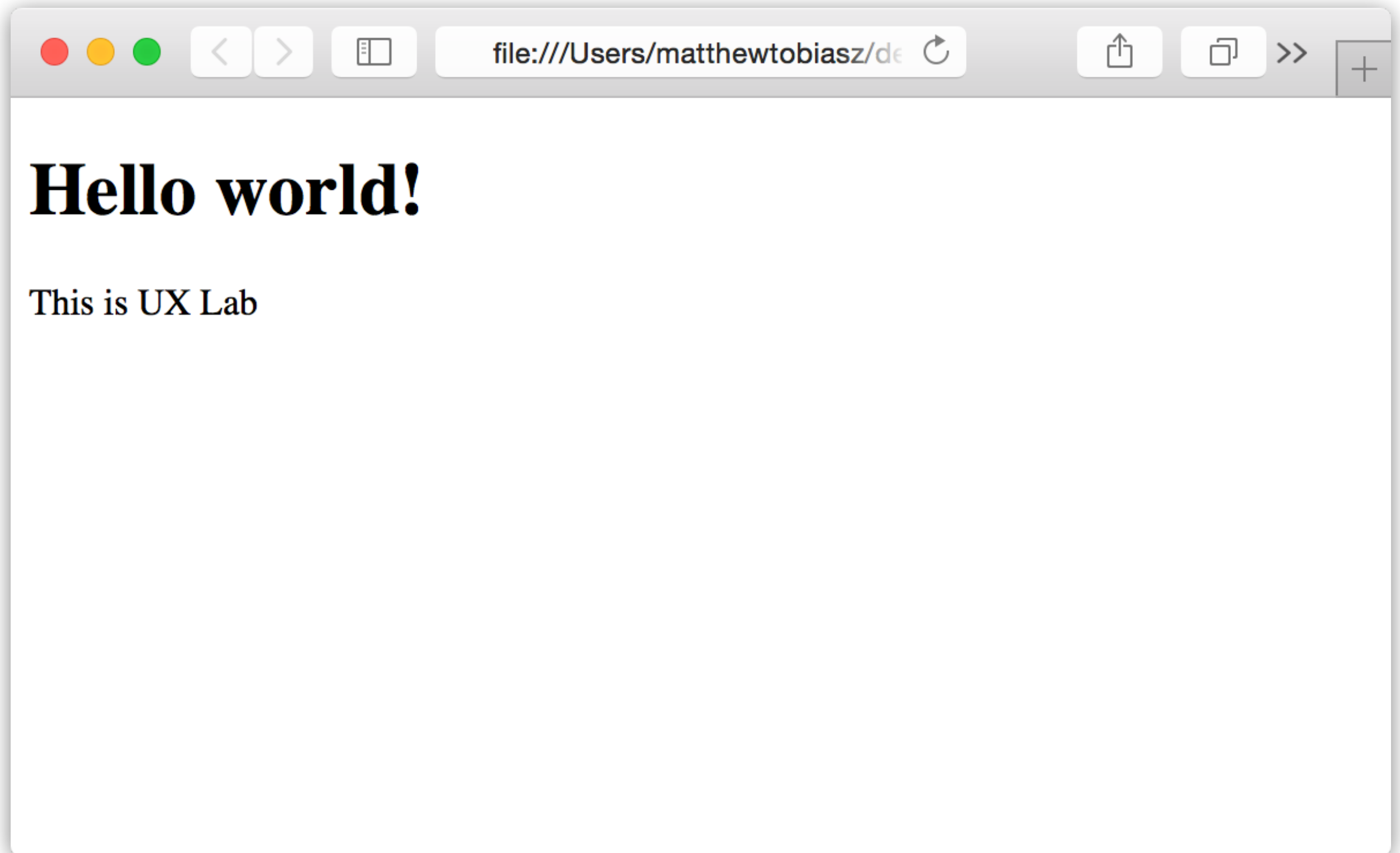
```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="UTF-8">
5     <title>This is a title</title>
6   </head>
7   <body>
8     <h1>Hello world!</h1>
9     <p>This is UX Lab</p>
10  </body>
11 </html>
12
```

Line 4, Column 27

Tab Size: 4

HTML

# HYPERTEXT MARKUP LANGUAGE (HTML)



# HTML



# CSS

---

CSS3 • Using CSS: Inline, <head>, <link> • Priority • Don't Repeat Yourself

# CSS





# HTML



The language for  
**building**  
web pages

# CSS



The language for  
**styling**  
web pages

# ADDING CSS TO HTML

- Inline style attribute
- In the `<head>`
- External `<link>`

# INLINE

```
index.html index.html
1 <!DOCTYPE HTML>
2
3 <html>
4
5 <head>
6   <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
7   <title>UX Lab: Roller Coasters</title>
8 </head>
9
10 <body>
11
12   <header class="header">
13     <h1 style="font: 24px arial; color: #EF5BA1; text-transform: uppercase;">UX Lab:</h1>
14     <h2 style="font: 18px arial; color: black;">Roller Coasters</h2>
15   </header>
16
17   <nav class="nav">
18     <ul>
19       <li style="display: inline-block;"><a href="#">Cannibal</a></li>
20       <li style="display: inline-block;"><a href="#">El Toro</a></li>
21       <li style="display: inline-block;"><a href="#">Fury 325</a></li>
22       <li style="display: inline-block;"><a href="#">GateKeeper</a></li>
23       <li style="display: inline-block;"><a href="#">Your menu</a></li>
24     </ul>
25   </nav>
26
27
```

Comparing against : HEAD, Deleted : 1 regions, Modified : 14, Line 30, Column 10

Spaces: 4 HTML

# INLINE

```
index.html index.html
1 <!DOCTYPE HTML>
2
3 <html>
4
5 <head>
6   <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
7   <title>UX Lab: Roller Coasters</title>
8 </head>
9
10 <body>
11
12   <header class="header">
13     <h1 style="font: 24px arial; color: #EF5BA1; text-transform: uppercase;">UX Lab:</h1>
14     <h2 style="font: 18px arial; color: black;">Roller Coasters</h2>
15   </header>
16
17   <nav class="nav">
18     <ul>
19       <li style="display: inline-block;"><a href="#">Cannibal</a></li>
20       <li style="display: inline-block;"><a href="#">El Toro</a></li>
21       <li style="display: inline-block;"><a href="#">Fury 325</a></li>
22       <li style="display: inline-block;"><a href="#">GateKeeper</a></li>
23       <li style="display: inline-block;"><a href="#">Your menu</a></li>
24     </ul>
25   </nav>
26
27
```

Comparing against : HEAD, Deleted : 1 regions, Modified : 14, Line 30, Column 10

Spaces: 4 HTML

# <head>

```
index.html index.html
1 <!DOCTYPE HTML>
2
3 <html>
4
5 <head>
6   <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
7   <title>UX Lab: Roller Coasters</title>
8   <style type="text/css">
9
10     h1 {
11       font: 24px arial;
12       color: #EF5BA1;
13       text-transform: uppercase;
14     }
15     h2 {
16       font: 18px arial;
17       color: black;
18     }
19     li {
20       display: inline-block;
21     }
22
23   </style>
24 </head>
25
26 <body>
27
```

Comparing against : HEAD, Modified : 30, Line 34, Column 13

Spaces: 4 HTML

# <head>

```
index.html index.html
1 <!DOCTYPE HTML>
2
3 <html>
4
5 <head>
6   <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
7   <title>UX Lab: Roller Coasters</title>
8   <style type="text/css">
9
10     h1 {
11       font: 24px arial;
12       color: #EF5BA1;
13       text-transform: uppercase;
14     }
15     h2 {
16       font: 18px arial;
17       color: black;
18     }
19     li {
20       display: inline-block;
21     }
22
23   </style>
24 </head>
25
26 <body>
27
```

Comparing against : HEAD, Modified : 30, Line 34, Column 13

Spaces: 4 HTML

# <link>

```
index.html index.html
1 <!DOCTYPE HTML>
2
3 <html>
4
5 <head>
6     <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
7     <link rel="stylesheet" type="text/css" href="./styles/main.css">
8     <title>UX Lab: Roller Coasters</title>
9 </head>
10
11 <body>
12
13     <header class="header">
14         <h1>UX Lab:</h1>
15         <h2>Roller Coasters</h2>
16     </header>
17
18     <nav class="nav">
19         <ul>
20             <li class="nav-label"><a href="#">Cannibal</a></li>
21             <li class="nav-label"><a href="#">El Toro</a></li>
22             <li class="nav-label"><a href="#">Fury 325</a></li>
23             <li class="nav-label"><a href="#">GateKeeper</a></li>
24             <li class="nav-label"><a href="#">Your menu</a></li>
25         </ul>
26     </nav>
27
```

Comparing against : HEAD, Deleted : 1 regions, Inserted : 1, Modified : 3, Line 38, Column 194

Spaces: 4 HTML

# <link>

```
index.html
1 <!DOCTYPE HTML>
2
3 <html>
4
5 <head>
6   <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
7   <link rel="stylesheet" type="text/css" href="./styles/main.css">
8   <title>UX Lab: Roller Coasters</title>
9 </head>
10
11 <body>
12
13   <header class="header">
14     <h1>UX Lab:</h1>
15     <h2>Roller Coasters</h2>
16   </header>
17
18   <nav class="nav">
19     <ul>
20       <li class="nav-label"><a href="#">Cannibal</a></li>
21       <li class="nav-label"><a href="#">El Toro</a></li>
22       <li class="nav-label"><a href="#">Fury 325</a></li>
23       <li class="nav-label"><a href="#">GateKeeper</a></li>
24       <li class="nav-label"><a href="#">Your menu</a></li>
25     </ul>
26   </nav>
27
```

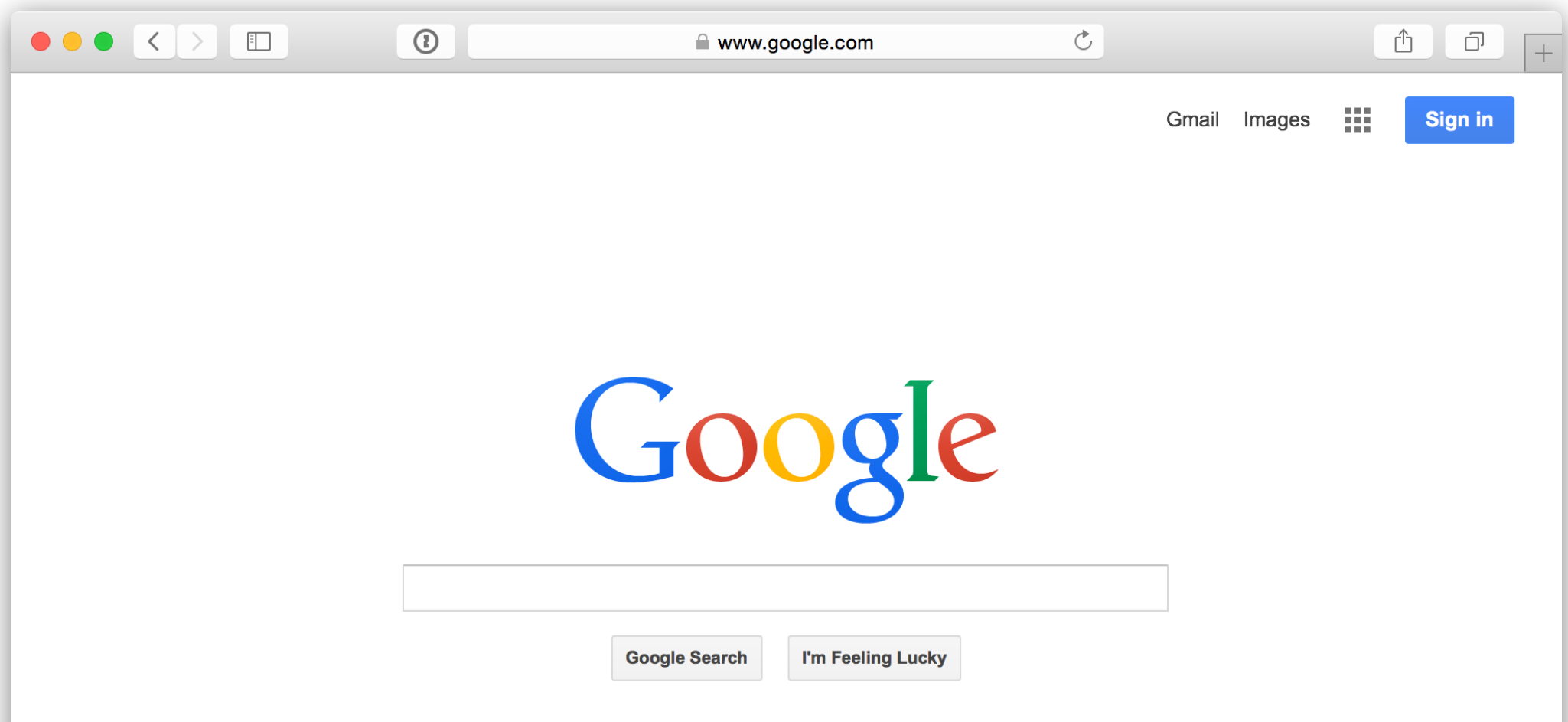
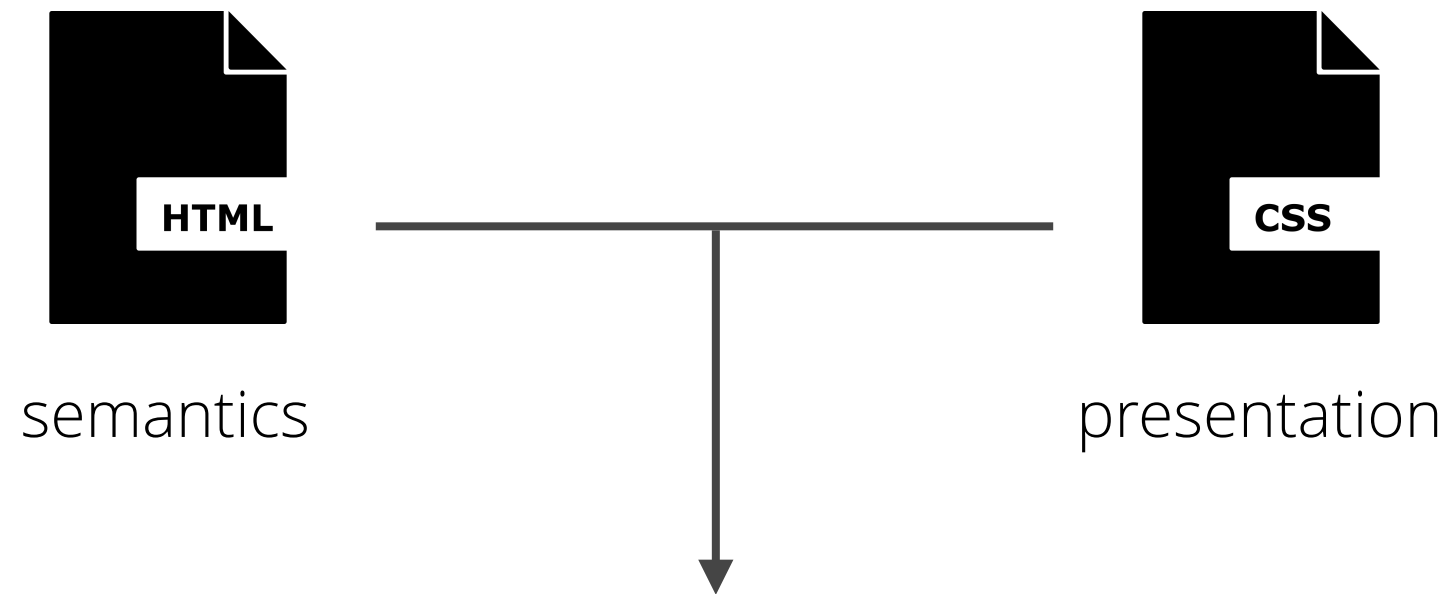
Comparing against : HEAD, Deleted : 1 regions, Inserted : 1, Modified : 3, Line 38, Column 194

Spaces: 4 HTML



# SEPARATION OF CONCERNS

Putting your CSS in a separate file splits *meaning* from *looks*



# STYLE PRIORITY



- i. Using `!important`
- ii. Inline style attribute
- iii. Top of HTML file in the `<head>`
- iv. External file specified by `<link>`

# **DON'T REPEAT YOURSELF (DRY)**

- Avoid repetition
- Duplication is waste
- Hard to maintain and update
- Hard to debug and fix
- Less actual code

# LOTS OF DUPLICATION

```
index.html index.html
1 <!DOCTYPE HTML>
2
3 <html>
4
5 <head>
6   <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
7   <title>UX Lab: Roller Coasters</title>
8 </head>
9
10 <body>
11
12   <header class="header">
13     <h1 style="font: 24px arial; color: #EF5BA1; text-transform: uppercase;">UX Lab:</h1>
14     <h2 style="font: 18px arial; color: black;">Roller Coasters</h2>
15   </header>
16
17   <nav class="nav">
18     <ul>
19       <li style="display: inline-block;"><a href="#">Cannibal</a></li>
20       <li style="display: inline-block;"><a href="#">El Toro</a></li>
21       <li style="display: inline-block;"><a href="#">Fury 325</a></li>
22       <li style="display: inline-block;"><a href="#">GateKeeper</a></li>
23       <li style="display: inline-block;"><a href="#">Your menu</a></li>
24     </ul>
25   </nav>
26
27
```

Comparing against : HEAD, Deleted : 1 regions, Modified : 14, Line 30, Column 10

Spaces: 4 HTML

# <link>

```
index.html index.html
1 <!DOCTYPE HTML>
2
3 <html>
4
5 <head>
6     <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
7     <link rel="stylesheet" type="text/css" href="./styles/main.css">
8     <title>UX Lab: Roller Coasters</title>
9 </head>
10
11 <body>
12
13     <header class="header">
14         <h1>UX Lab:</h1>
15         <h2>Roller Coasters</h2>
16     </header>
17
18     <nav class="nav">
19         <ul>
20             <li class="nav-label"><a href="#">Cannibal</a></li>
21             <li class="nav-label"><a href="#">El Toro</a></li>
22             <li class="nav-label"><a href="#">Fury 325</a></li>
23             <li class="nav-label"><a href="#">GateKeeper</a></li>
24             <li class="nav-label"><a href="#">Your menu</a></li>
25         </ul>
26     </nav>
27
```

Comparing against : HEAD, Deleted : 1 regions, Inserted : 1, Modified : 3, Line 38, Column 194

Spaces: 4 HTML

# CSS SYNTAX

---

CSS Rule Set • Selector • Declaration • Property • Value

# CASCADING **STYLE SHEETS (CSS)**

```
h1 {  
    color: red;  
    font-size: 18px;  
    padding: 10px 5px;  
}
```

# CSS SYNTAX

## CSS Rule Set

```
h1 {  
  color: red;  
  font-size: 18px;  
  padding: 10px 5px;  
}
```



# CSS RULE

A CSS rule set consists of a selector and a declaration block

## Selector

The HTML element you want to style

`h1` {

`color: red;`

`font-size: 18px;`

`padding: 10px 5px;`

}

## Declarations

Separated by a semicolons

## Selector

.class

#item-id

\*

div

div \*

div span

div, span

div > span

div + span

div.class

div#item-id

a[attr]

## Description

Elements of class "class"

Element with id "item-id"

All elements

All <div>

All elements within <div>

<span> within <div>

All <div> and <span>

<span> with parent <div>

<span> preceded by <div>

<div> of class "class"

<div> with id "item-id"

<a> with attribute "attr"

# CSS RULE

Declarations include a property name and a value, always ending in a semicolon

```
h1 {
```

```
  color: red;
```

```
  font-size: 18px;
```

```
  padding: 10px 5px;
```

**Property**

**Value**

```
}
```

# GETTING STARTED

---

Browser Inspectors • UX Lab Example

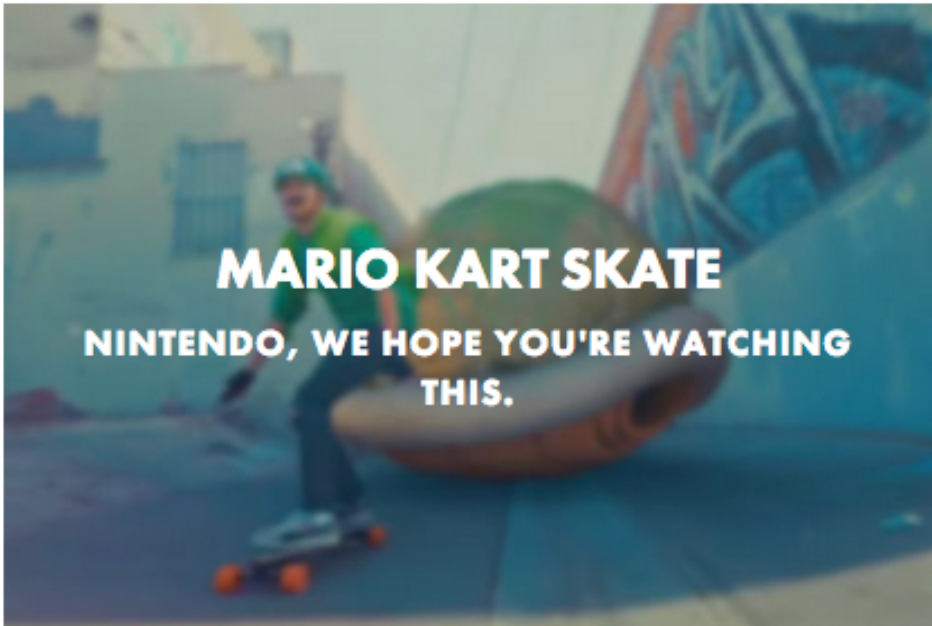
# BROWSER INSPECTORS

Devour.com | Videos Worth x Matthew

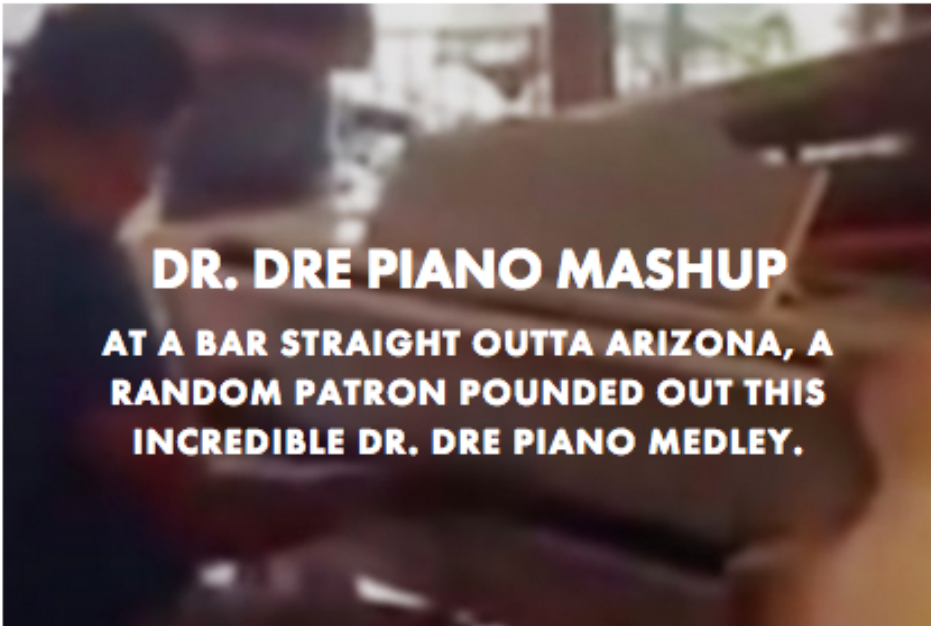
devour.com

## DEVOUR

LATEST POPULAR LEFTOVERS CHANNELS PLAYLIST RANDOM SEARCH ENLIST APP



**MARIO KART SKATE**  
NINTENDO, WE HOPE YOU'RE WATCHING THIS.



**DR. DRE PIANO MASHUP**  
AT A BAR STRAIGHT OUTTA ARIZONA, A RANDOM PATRON POUNDED OUT THIS INCREDIBLE DR. DRE PIANO MEDLEY.

Elements Network Sources Timeline Profiles Resources Audits Console

```
<!DOCTYPE html>
<!--[if lt IE 7]> <html class="no-js lt-ie9 lt-ie8 lt-ie7" lang="en"> <![endif]-->
<!--[if IE 7]> <html class="no-js lt-ie9 lt-ie8" lang="en"> <![endif]-->
<!--[if IE 8]> <html class="no-js lt-ie9" lang="en"> <![endif]-->
<!--[if gt IE 8]><!-->
<html lang="en" class="wf-futurapt-n7-active wf-futurapt-n8-active wf-futurapt-i5-active wf-futurapt-i7-active wf-futurapt-i8-active wf-futurapt-n5-active wf-active">
  <!--<![endif]-->
  <head>...</head>
  <body class="list">
    <div class="body-wrapper">
      <div class="wrapper header-wrapper">...</div>
      <div class="wrapper banner-ad-wide-wrapper">...</div>
      <div class="wrapper article-list-wrapper">
        <ul class="article-list grid">
          <li class="article one-half">
            <div class="image-wrapper">
              <a href="http://devour.com/video/mario-kart-skate/">
                
              </a>
            </div>
          </li>
        </ul>
      </div>
    </div>
  </body>
</html>
```

Styles Computed Event Listeners DOM Breakpoints »

element.style {

.article-list .article { style.css?v=2.0.14:450

margin-bottom: 20px;

text-align: center;

height: auto;

position: relative;

overflow: hidden;

max-height: 340px;

color: white;

.grid .one-half { style.css?v=2.0.14:173

width: 48.9583333%;

float: left;

height: auto;

overflow: hidden;

margin-right: 2.0833334%;

display: block;

Find in Styles

html body div div ul.article-list.grid li.article-one-half div.image-wrapper a img

# UX LAB EXAMPLE

# GitHub



[github.com/matthewtobiasz/ux-lab](https://github.com/matthewtobiasz/ux-lab)

[git.io/vs1Lo](https://git.io/vs1Lo)

# NEXT STEPS

---

Online Courses • CSS Book • UX Lab - Part Two

# ONLINE COURSE: HTML & CSS



## HTML & CSS

Learn how to create websites by structuring and styling your pages with HTML and CSS.

START

4.5m+  
enrolled students

7 Hours  
estimated course time

Beginner  
required technical level

[www.codecademy.com/en/tracks/web](https://www.codecademy.com/en/tracks/web)



# ONLINE COURSE: CSS CROSS-COUNTRY



HTML/CSS

## CSS CROSS-COUNTRY

START COURSE FOR FREE

[Watch Intro](#)

[www.codeschool.com/courses/css-cross-country](https://www.codeschool.com/courses/css-cross-country)



# HTML&CSS

design and build websites

JON DUCKETT

# BOOK: HTML & CSS

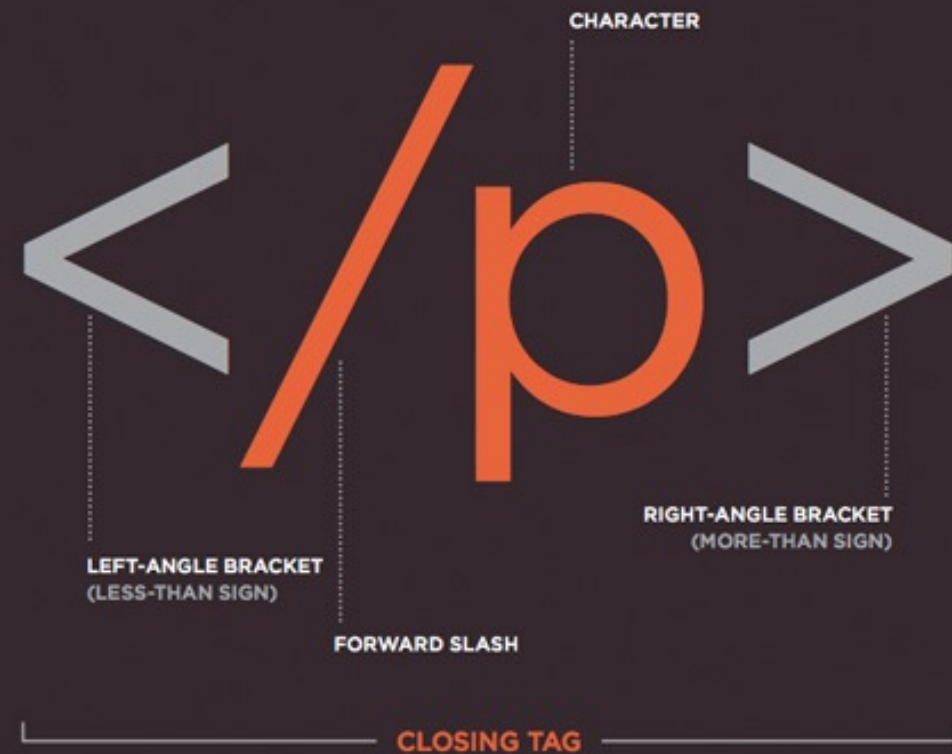
## A CLOSER LOOK AT TAGS



The characters in the brackets indicate the tag's purpose.

For example, in the tags above the p stands for paragraph.

The closing tag has a forward slash after the < symbol.



The terms "tag" and "element" are often used interchangeably.

Strictly speaking, however, an element comprises the opening

tag and the closing tag and any content that lies between them.

# **UX LAB**

## **PART TWO**


To Be Continued

**THANKS**

**FOR LISTENING**

# APPENDIX






# !important

- `!important` is bad practice:
  - It breaks the natural flow of the cascade
  - It ignores subsequent rules and usual specificity
  - It's hard to debug
  - Can break accessibility software
  - If you think you need it, think again
- **Don't use it** 



# CSS3

Taxonomy & Status (October 2014)

-  W3C Recommendation
-  Candidate Recommendation
-  Last Call
-  Working Draft
-  Obsolete or inactive

