



Hands on Responsive Web Development

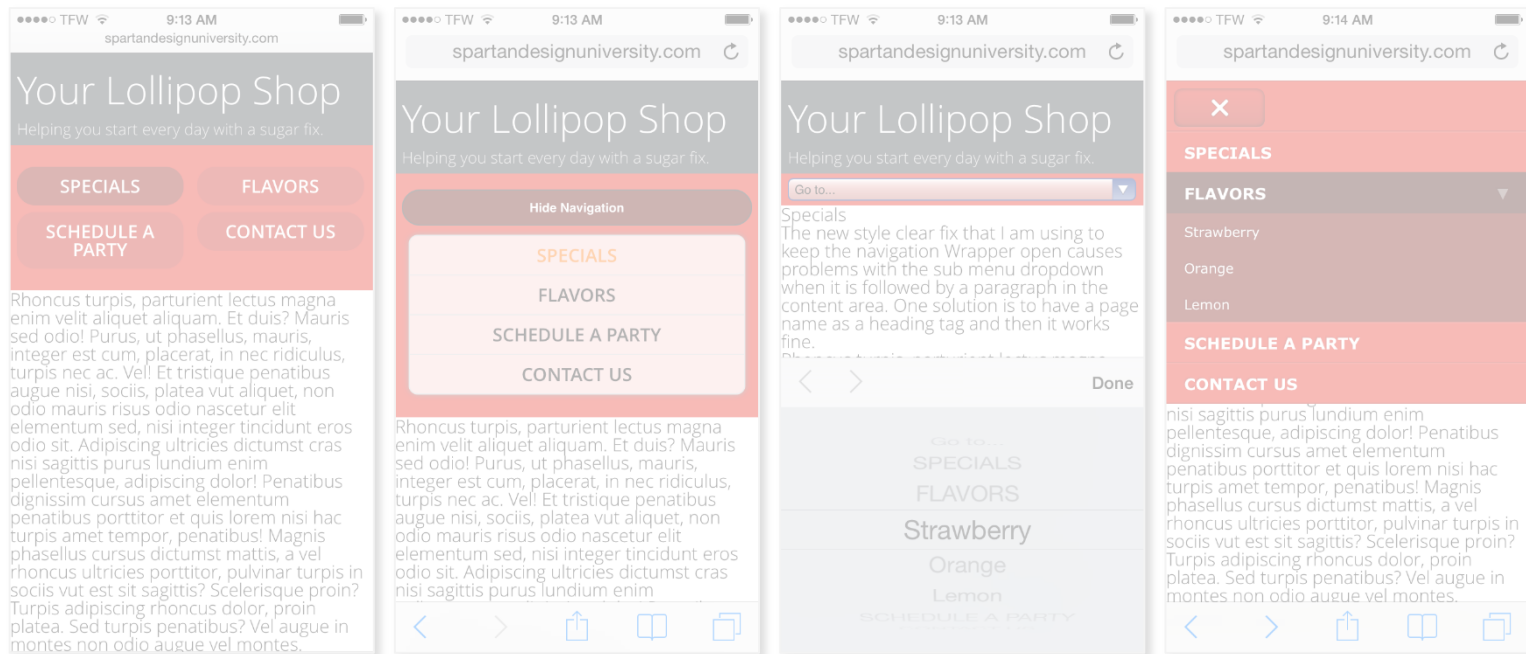
Building a Responsive Start File

Paul Cheney
Spartan Design Web



pluralsight 
hardcore dev and IT training

Overview



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Agenda

- History
- Mobile Strategy
- CSS Media Queries
- Device Width
- Screen Width
- Course Goals



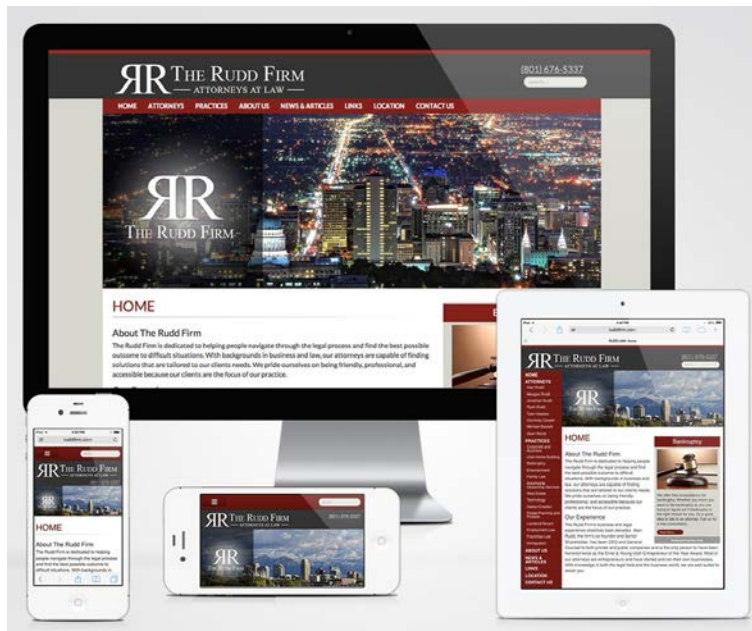
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History

- June 2007 - Apple releases the first iPhone
- April 2010 - Apple releases the first tablet
- March 2011 - Eleven months later tablets and smart phones outsell desktop computers
- Fall 2013 - Tablets alone outsell desktop computers



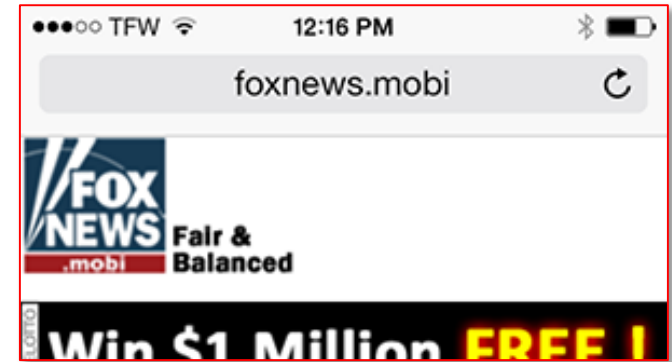
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Mobile Strategy

- **Ignore them**
 - Hope they go away
- **Build a separate mobile web site**
 - .mobi or m. site optimized for small screens
 - Double the work
- **Build an app for the Apple Store, Android marketplace, Amazon Kindle store, Windows Phone Store**
 - Try to get customers to download
 - Maintain and update all versions
- **Build a responsive site**
 - Adapts one code base to all possible devices



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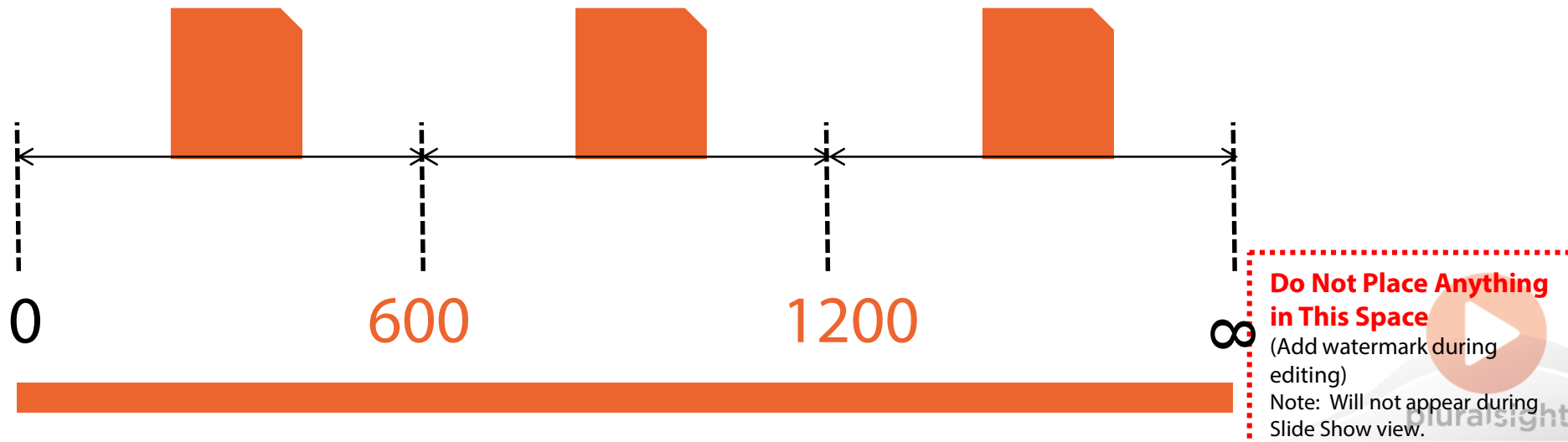


CSS Media Queries

Media Queries is a CSS3 module allowing content rendering to adapt to conditions such as screen resolution (e.g. smartphone vs. high definition screen). It became a W3C recommended standard in June 2012. and is a cornerstone technology of Responsive Web Design.

It allows us to target CSS statements at a segment of the design landscape.

Start point and **End** point



1st way - Device Width

What is the device width of an phone?

320px

What about when it is turned on the side?

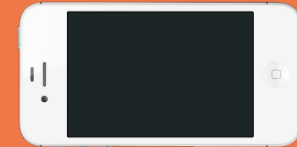
still 320px

What is the device width of an ipad?

768px

What about when it is turned on the side?

768px



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2nd - Screen Width

What is the screen width of an phone?

320px

What about when it is turned on the side?

480 or 568

What is the screen width of an ipad?

768px

What about when it is turned on the side?

1024px



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Course Goals

- Nine Projects that you build along with me.
 - Start File
 - Example of the finished product

```
1 <!doctype html>
2 <html>
3 <head>
4 <meta charset="UTF-8">
5 <title>Lollipop Shop</title>
6
7 <!-- LOAD GOOGLE FONT -->
8 <link href="http://fonts.googleapis.com/css?family=Open+Sans:300,600" rel="stylesheet" type="text/css">
9
10 <!-- Latest version of jquery-->
11 <script src="//ajax.googleapis.com/ajax/libs/jquery/2.1.1/jquery.min.js"></script>
12
13
14
15
16 <!-- TELLS PHONES NOT TO LIE ABOUT THEIR WIDTH -->
17 <meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1">
18
19
20
21 <!--[if lt IE 9]>
22 <script src="http://html5shim.googlecode.com/svn/trunk/html5.js"></script>
23 <script src="http://css3-mediaqueries-js.googlecode.com/svn/trunk/css3-mediaqueries.js"></script>
24 <![endif]-->
25
26
27
28 <!-- ***** STYLE SHEETS ***** -->
29 <link href="stylesheets/reset.css" rel="stylesheet">
30 <!-- phone-default -->
31 <link href="stylesheets/phone-default.css" rel="stylesheet">
32 <!-- enhance-tablet -->
33 <link href="stylesheets/tablet.css" rel="stylesheet">
34 <!-- enhance-desktop -->
35 <link href="stylesheets/desktop.css" rel="stylesheet">
36
```

External Fonts

jQuery

Do Not Lie

IE Hack

Media Queries

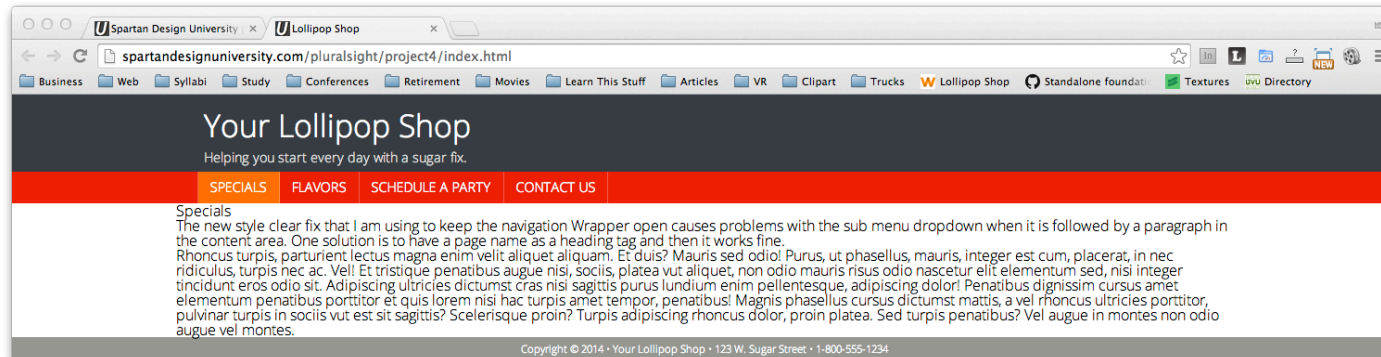
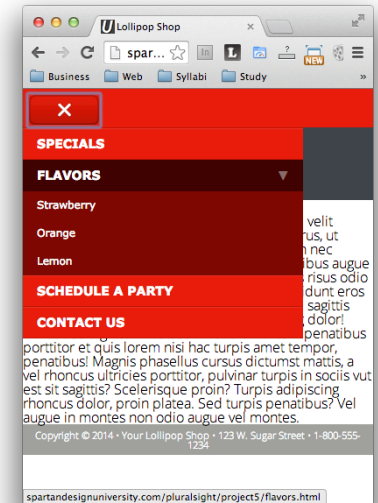
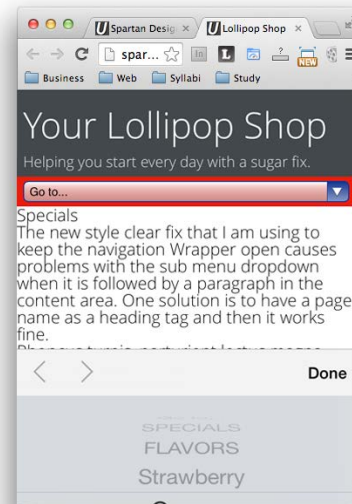
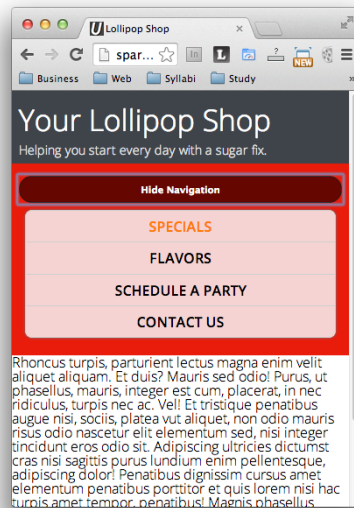
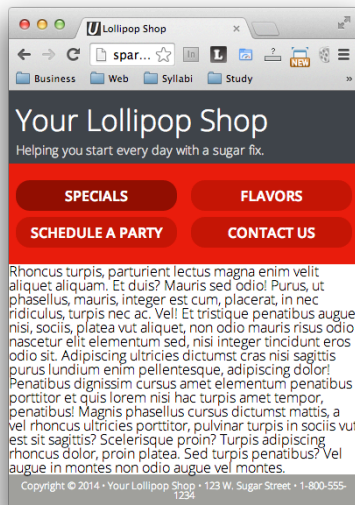
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Course Goals

- Explore various mobile phone navigation schemes



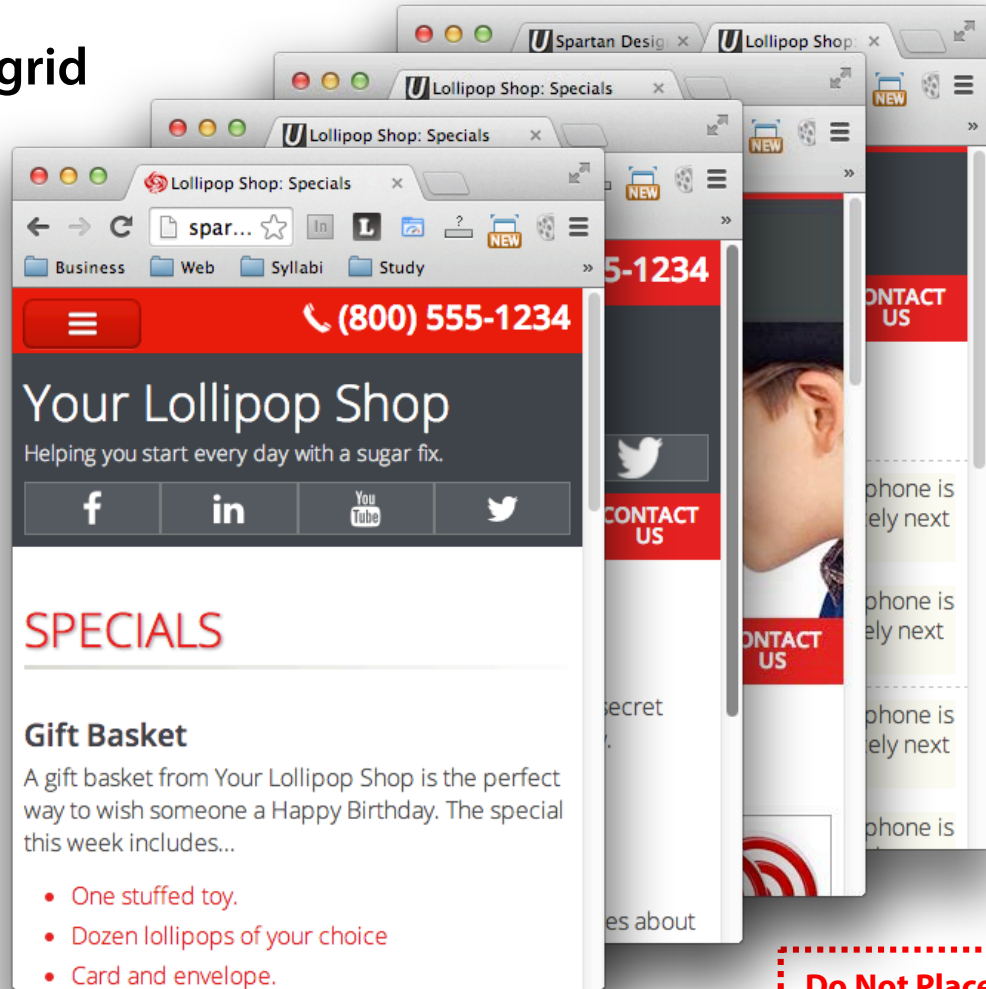
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Course Goals

- Implement a 12 column grid
- Responsive Images
- Icons
- CSS Preprocessor



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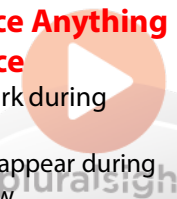
Agenda

- Page Structure (four main parts)
- Create & Link Style Sheets
- Do Not Lie
- iPhone Resize Fix
- Natural Box Layout
- IE fix
- Latest jQuery
- Google Font
- Body{} styles

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What is a “box”

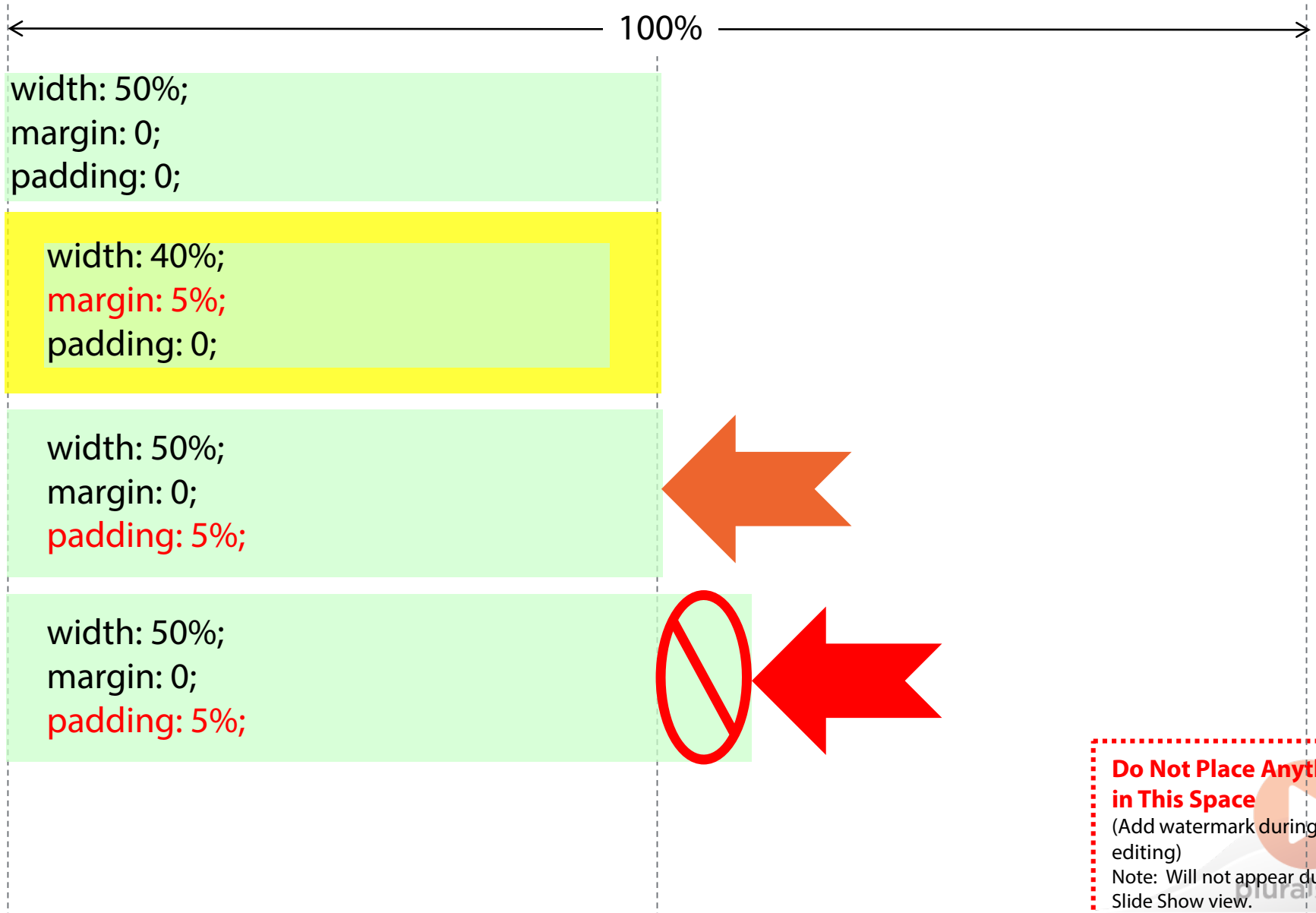
- **Inline** elements do **not** have forced breaks.
- `` `` `<cite>` `<i>`
- An inline element `<i>`*does not cause*`</i>` a new line to start.
- **Block** elements create “boxes” and start new lines
- `<p>` `<div>` `<h1>` `<h2>`
- When you use block elements each one starts a new line.
This is another block element
This would be yet another block element
- They create boxes (background-color)

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The Box Model



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Box Model Solution

Apply to
all elements

→ * {

box-sizing: border-box;

Browser
prefixes

→ -moz-box-sizing: border-box;

→ -webkit-box-sizing: border-box;

}
→

← 100% →

width: 50%;
margin: 0;
padding: 5%;

width: 50%;
margin: 0;
padding: 5%;

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Summary

Page Structure

Link Style Sheets

Do Not Lie

iPhone Resize Fix

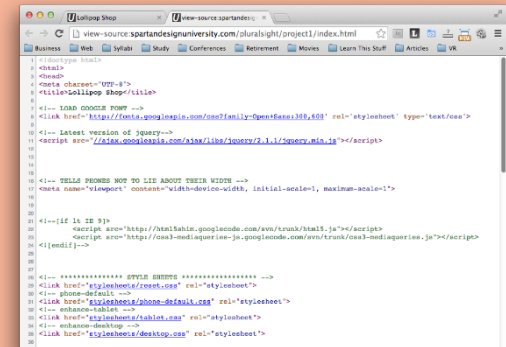
Natural Box Layout

IE fix

Latest jQuery

Google Font

Body{} styles



```
1 <!doctype html>
2 <html>
3 <head>
4 <meta charset="UTF-8">
5 <title>Spartanidesignuniversity.com/pluralsight/project1/index.html</title>
6
7 <!-- LOAD GOOGLE FONT -->
8 <link href="https://fonts.googleapis.com/css?family=Open+Sans:300,400" rel="stylesheet" type="text/css">
9
10 <!-- Latest version of jQuery -->
11 <script src="https://code.jquery.com/jquery-3.1.1.min.js"></script>
12
13 <!-- TELLIE BROWSERS NOT TO LIE ABOUT THEIR WIDTH -->
14 <meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1">
15
16
17 <!-- IF IE 8 -->
18 <script src="https://html5shiv.googlecode.com/svn/trunk/html5.js"></script>
19 <script src="https://code.jquery.com/jquery-3.1.1.min.js"></script>
20 </script>
21
22
23 <!-- ***** STYLE SHEETS ***** -->
24 <link href="stylesheets/reset.css" rel="stylesheet">
25 <!-- phone-default -->
26 <link href="stylesheets/phone-default.css" rel="stylesheet">
27 <!-- phone-landscape -->
28 <link href="stylesheets/phone-landscape.css" rel="stylesheet">
29 <!-- desktop -->
30 <link href="stylesheets/desktop.css" rel="stylesheet">
31 </link>
32 <link href="stylesheets/desktop.css" rel="stylesheet">
```

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