

# Chapter 1: Introducing Responsive Web Design

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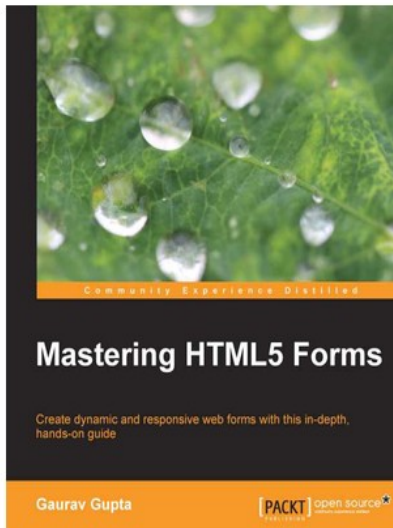


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## Mastering HTML5 Forms

Gaurav Gupta

November 2013



Create dynamic and responsive web forms with this in - depth, hands-on guide

\$21.58

RRP \$29.99

eBook

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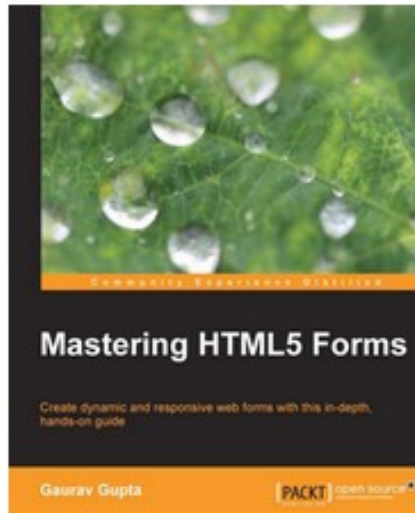
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## Mastering HTML5 Forms

Create dynamic and responsive web forms with this in - depth, hands-on guide



**Gaurav Gupta**

November 2013

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Free Sample

# A LIST APART



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**NEW!** JUN 01, 2016

## Commit to Contribute

by **Remy Sharp** · 1 Comment

Even a very basic contribution to an open-source codebase will turn into more than a one-line change when all is said and done. New developers can be put off by seemingly arbitrary roadblocks when they've just worked up the courage to contribute. Remy Sharp has a rundown of some tools that can smooth the way and make novices feel more welcome.

### More from A List Apart

#### Once Upon a Time

by **Anne Gibson**  
Business communications benefit from better, tighter delivery—a technique we learned from fairy tales, Anne Gibson reminds us.  
Business · May 25, 2016

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by **Jeremiah Shoaf**  
The same typefaces crop up everywhere on the web. But why? Jeremiah Shoaf thinks the answer might lie in cognitive biases.  
State of the Web · May 17, 2016

#### Never Show A Design You Haven't Tested On Users

by **Ida Aalen**  
User testing is a necessary part of the design process, not a luxury.  
Design · May 10, 2016


#### Meaningful CSS: Style Like You Mean It

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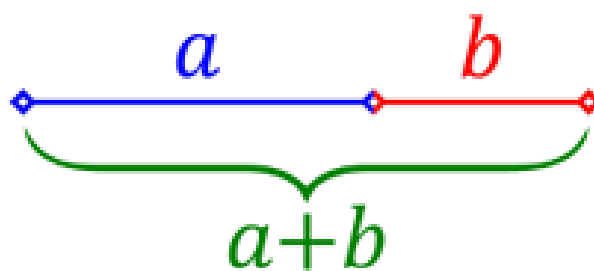
# LISTIA

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$$(a + b) : a = a : b = 1.618 : 1$$

## Most Persons Never Noticed the Increase

"Granser," he announced, "you make me sick with your gabble. Why don't you tell about the Red Death? If you ain't going to, say so, an' we'll start back for camp."

The old man looked at him and silently began to cry. The weak tears of age rolled down his cheeks and all the feebleness of his eighty-seven years showed in his grief-stricken countenance.

## Most Persons Never Noticed the Increase

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## Common breakpoints



**0-480**

*Smaller smartphones*



**481-768**

*Tablets & larger smartphones*



**769-1279**

*Laptops, larger tablets in landscape, and small desktops*



**1280+**

*Larger desktops and monitors*

## CORE GESTURES Basic gestures for most touch commands

---

### Tap



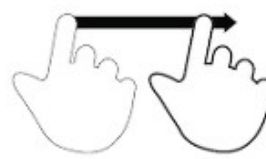
Briefly touch surface with fingertip

### Double tap



Rapidly touch surface twice with fingertip

### Drag



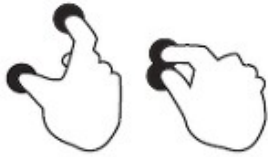
Move fingertip over surface without losing contact

### Flick



Quickly brush surface with fingertip

### Pinch



Touch surface with two fingers and bring them closer together

### Spread



Touch surface with two fingers and move them apart

### Press



Touch surface for extended period of time

### Press and tap



Press surface with one finger and briefly touch surface with second finger

### Press and drag

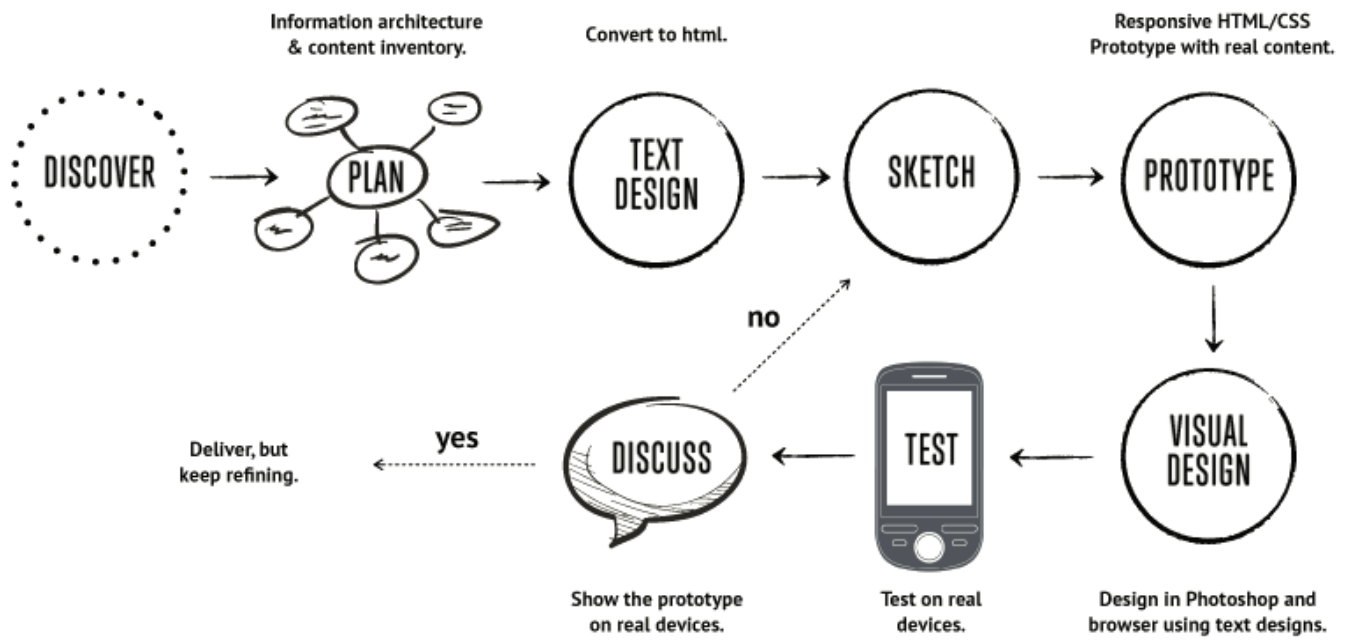


Press surface with one finger and move second finger over surface without losing contact

### Rotate

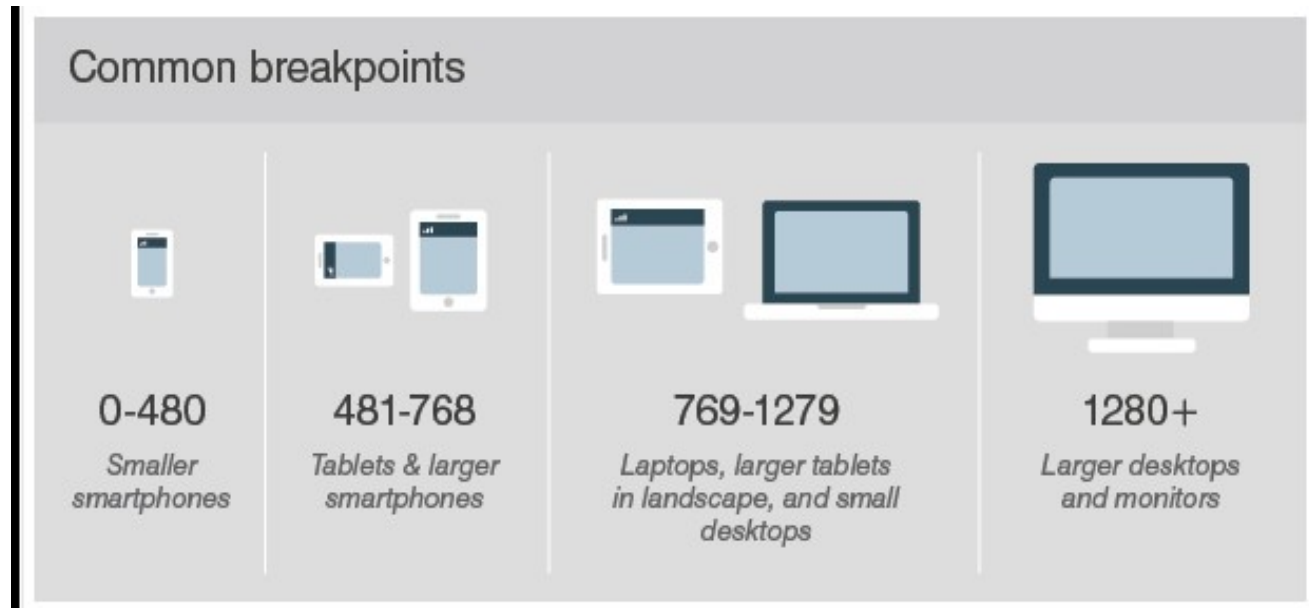


Touch surface with two fingers and move them in a clockwise or counterclockwise direction





## Chapter 2: Creating Fluid Layouts



```
meta name="viewport" width, initial-scale=1
```

Lorem ipsum dolor sit elit. Donec efficitur, e convallis quam, conse aliquam ex. Praesent

**meta name="viewport"  
content="width=device-width,  
initial-scale=1"**

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec efficitur, elit vel auctor tempus, nunc dui convallis quam, consequat convallis ipsum est aliquam ex. Praesent porta nibh vel justo convallis faucibus. Nunc consequat turpis eget odio ornare, et molestie diam laoreet. Cras ullamcorper faucibus quam porta scelerisque. Proin finibus erat at risus laoreet suscipit et a neque. Nullam eu porta elit. Duis fermentum in lacus vel maximus. Donec vitae blandit nisl.

Current aligned	Usage relative	Show all								
IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android	
			48					4.3		
			49			8.4		4.4		
8		45	50			9.2		4.4.4		
11	13	46	51	9.1	37	9.3	8	50	50	
	14	47	52	TP	38					
		48	53		39					
		49	54							

Section

Aside

# code 42

A demo site about life, universe...and JavaScript

.whole

.half

.half

iPhone 6 Plus ▼

736 × 414

100% ▼

DPR: 3.0 ▼

Mobile ▼



# code 42

A demo site about life,  
universe...and JavaScript

.whole

.half

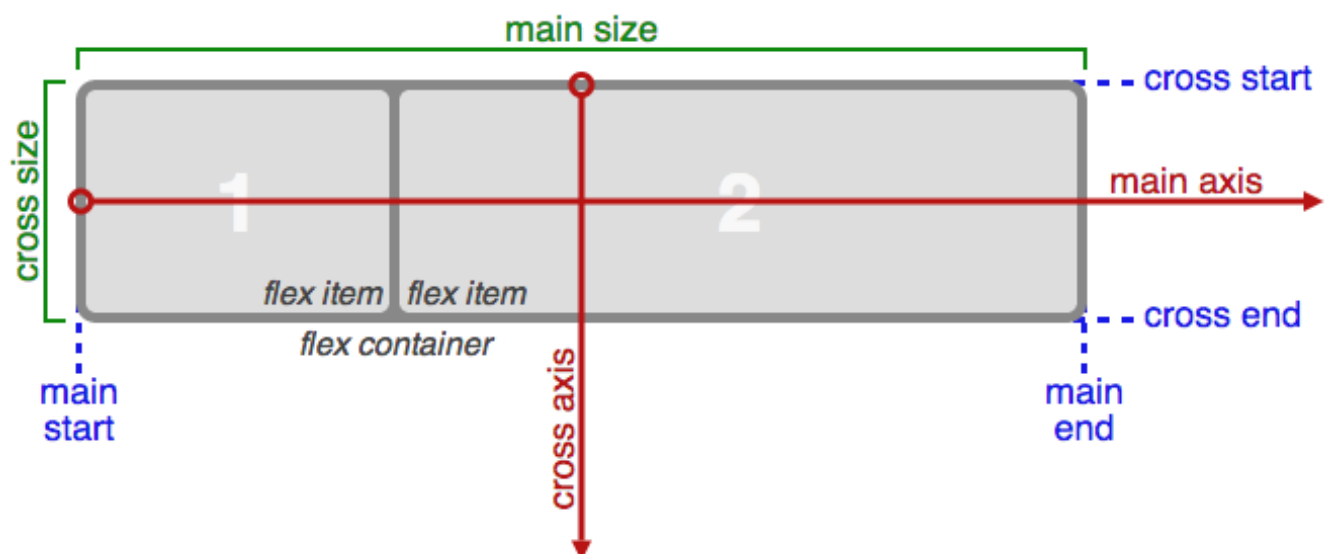
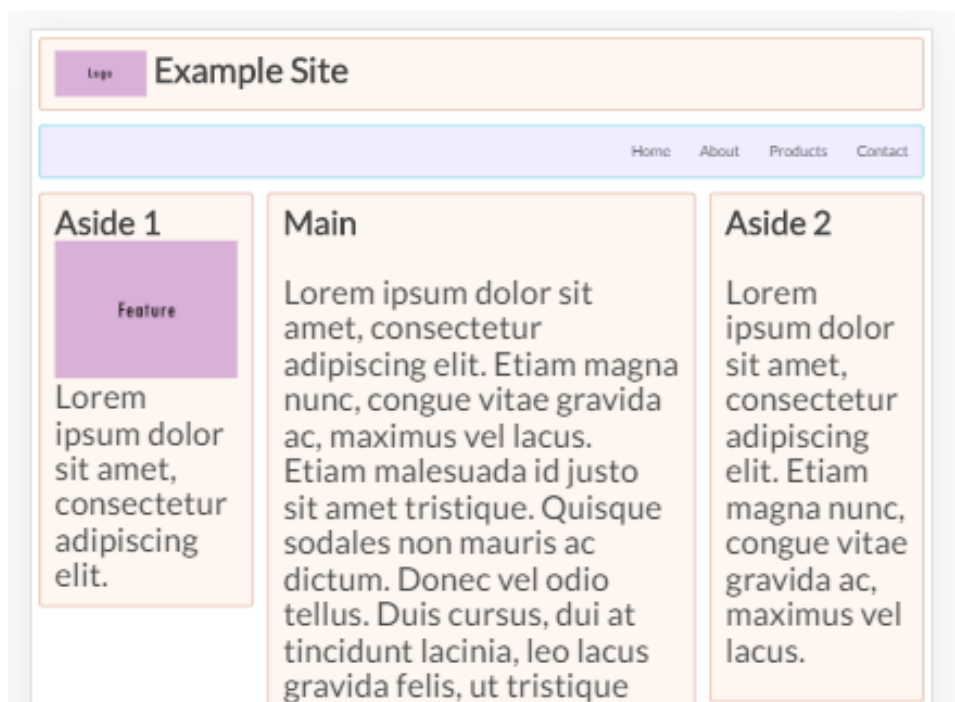
.half

```
47 /* Width classes also have shorthand versions numbered as fractions
48 * For example: for a grid unit 1/3 (one third) of the parent width,
49 * simply apply class="w-1-3" to the element. */
50 .grid .whole,      .grid .w-1-1 { width: 100%; }
51 .grid .half,      .grid .w-1-2 { width: 50%; }
52 .grid .one-third, .grid .w-1-3 { width: 33.3332%; }
53 .grid .two-thirds, .grid .w-2-3 { width: 66.6665%; }
54 .grid .one-quarter, .grid .w-1-4 { width: 25%; }
55 .grid .three-quarters, .grid .w-3-4 { width: 75%; }
56 .grid .one-fifth, .grid .w-1-5 { width: 20%; }
57 .grid .two-fifths, .grid .w-2-5 { width: 40%; }
58 .grid .three-fifths, .grid .w-3-5 { width: 60%; }
59 .grid .four-fifths, .grid .w-4-5 { width: 80%; }
60 .grid .golden-small, .grid .w-g-s { width: 38.2716%; } /* Golden section: smaller piece */
61 .grid .golden-large, .grid .w-g-l { width: 61.7283%; } /* Golden section: larger piece */
```

pre | 215.33 x 74

.one-third

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
			48					4.3	
		45	49			8.4		4.4	
8		46	50			9.2		4.4.4	
11	13	47	51	9.1	37	9.3	8	50	50
	14	48	52	TP	38				
		49	53		39				
		50	54						



```

50  /*Basic Grid Styles*/
51  .Grid {
52      display: flex;
53      flex-flow: row;
54      flex-wrap: wrap;
55  }
56
57  .Grid-cell {
58      flex: 1;
59  }

```

```

67  .nav {
68      list-style: none;
69      background: rgba(102, 51, 255, 0.1);
70      margin: 0 0 1em;
71      border: 1px solid #33cccc;
72      border-radius: 3px;
73      display: flex;
74      flex-flow: row wrap;
75      justify-content: flex-end;
76  }

```

```

149  .Grid--Holy-grail .aside-1 {
150      order: 1;
151  }
152
153  .Grid--Holy-grail .main {
154      order: 2;
155  }

```

Current aligned	Usage relative	Show all	IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
						48					4.3	
					45	49			8.4		4.4	
8					46	50			9.2		4.4.4	
11	13				47	51	9.1	37	9.3	8	50	50
	14				48	52	TP	38				
					49	53		39				
					50	54						

**Experimental Web Platform features** Mac, Windows, Linux, Chrome OS, Android  
 Enables experimental Web Platform features that are in development. [#enable-experimental-web-platform-features](#)  
[Disable](#)



Rozenhoedkaai at night, Bruges



Architecture in Bruges - Frederic Giet



Tourist store - Jackie Bernelas

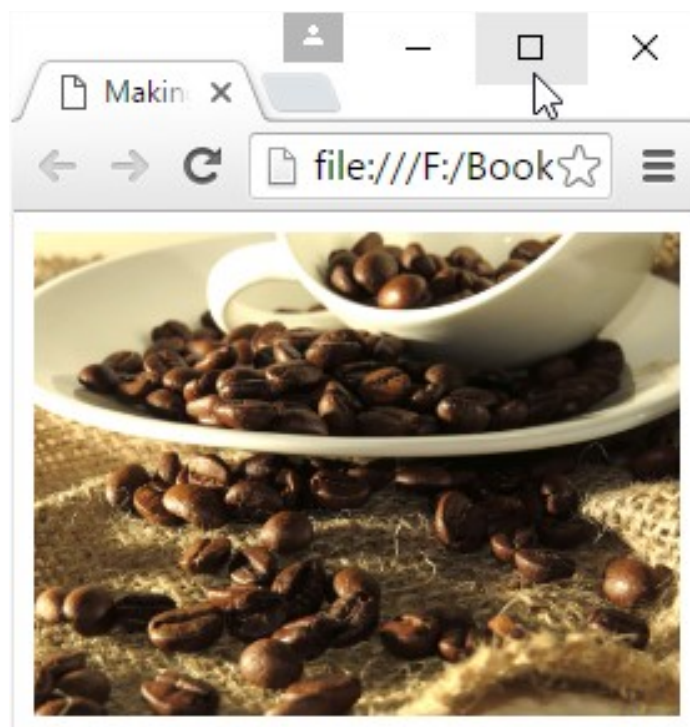
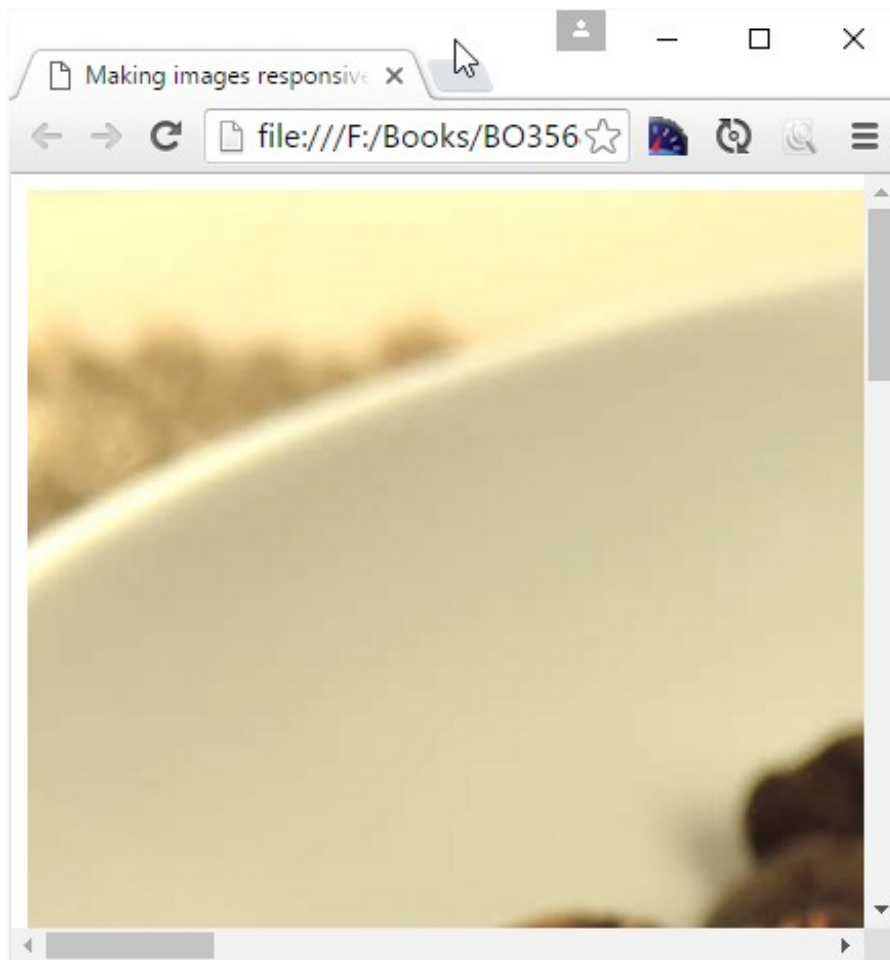


Canal boat cruise - Jason Connolly



Bruges - Wolfgang Staudt

## Chapter 3: Adding Responsive Media

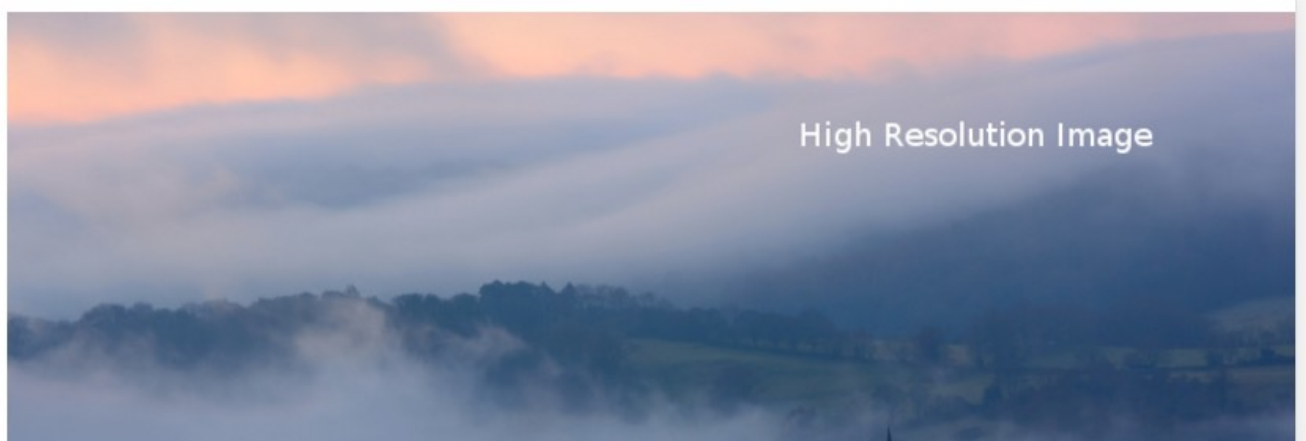


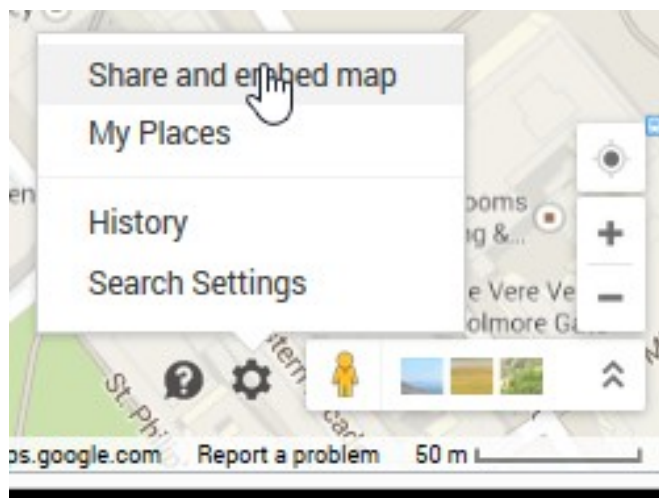


IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
			48			7.1		4.3	
			49			8.4		4.4	
9		45	50	9	36	9.2		4.4.4	
11	13	46	51	9.1	37	9.3	8	50	50
	14	47	52	TP	38				
		48	53		39				

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
			48			7.1		4.3	
			49			8.4		4.4	
9		45	50	9	36	9.2		4.4.4	
11	13	46	51	9.1	37	9.3	8	50	50
	14	47	52	TP	38				
		48	53		39				

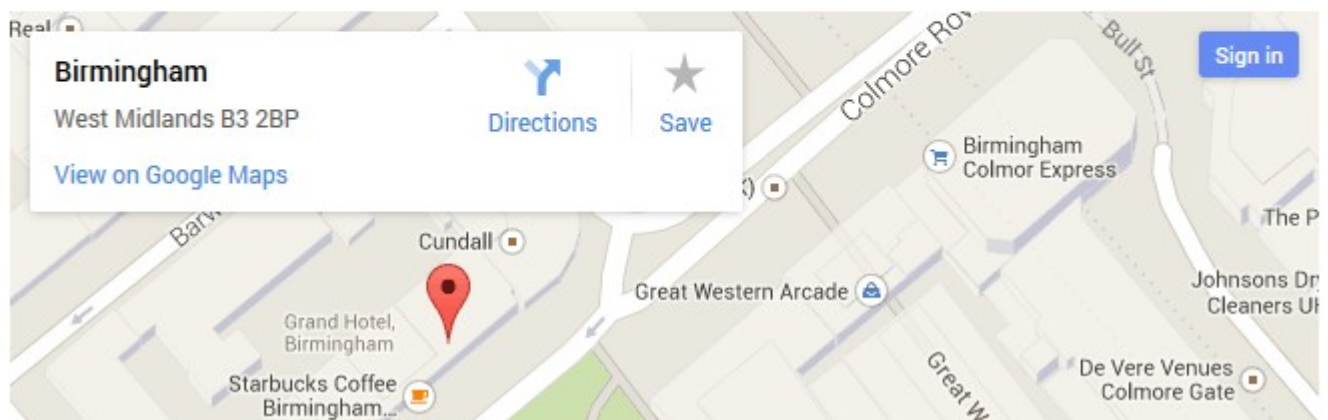
Responsive ▾ 826 x 573 100% ▾ DPR: 3.0 ▾ Desktop ▾

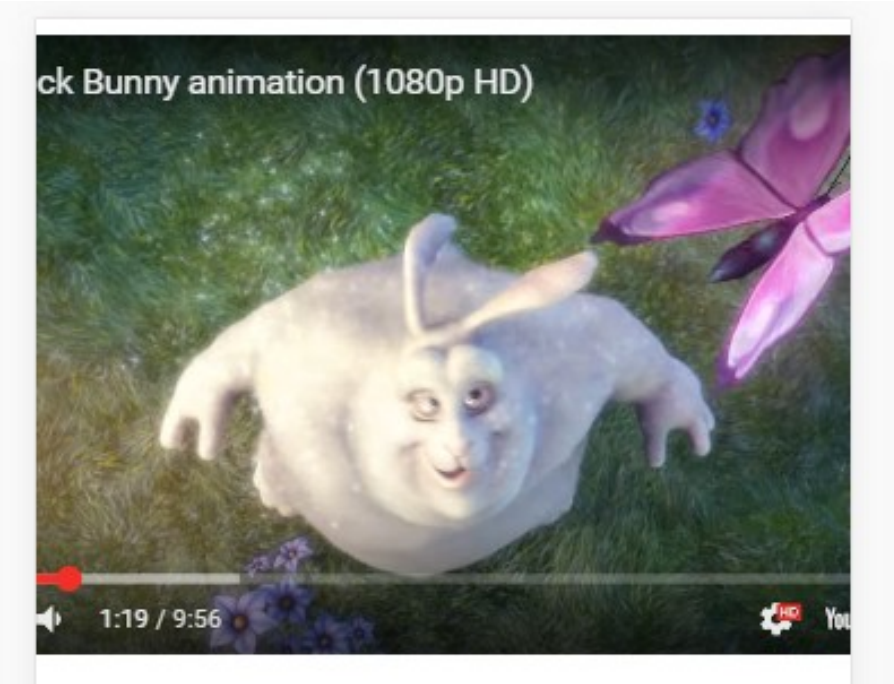




## Responsive Google Maps

Try resizing your browser and see what happens...







IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
			48					4.3	
8			49			8.4		4.4	
9		45	50	9	36	9.2		4.4.4	
11	13	46	51	9.1	37	9.3	8	50	50
	14	47	52	TP	38				
		48	53		39				

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
			48					4.3	
8			49			8.4		4.4	
9		45	50	9	36	9.2		4.4.4	
11	13	46	51	9.1	37	9.3	8	50	50
	14	47	52	TP	38				
		48	53		39				



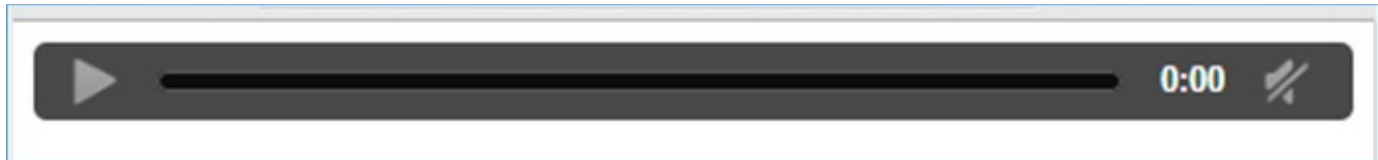
## Full screen HTML5 video background

Lorem ipsum dolor sit amet, vix te quidam commodo placerat. Mei ne dicunt minimum disputationi, purto everti adolescens id cum, quis veritus cotidieque eum ex. Ea eirmod atomorum posidonium sed, splendide dissentiunt an mel. Dolorem suavitate voluptatibus pro no. No duo conceptam cotidieque.

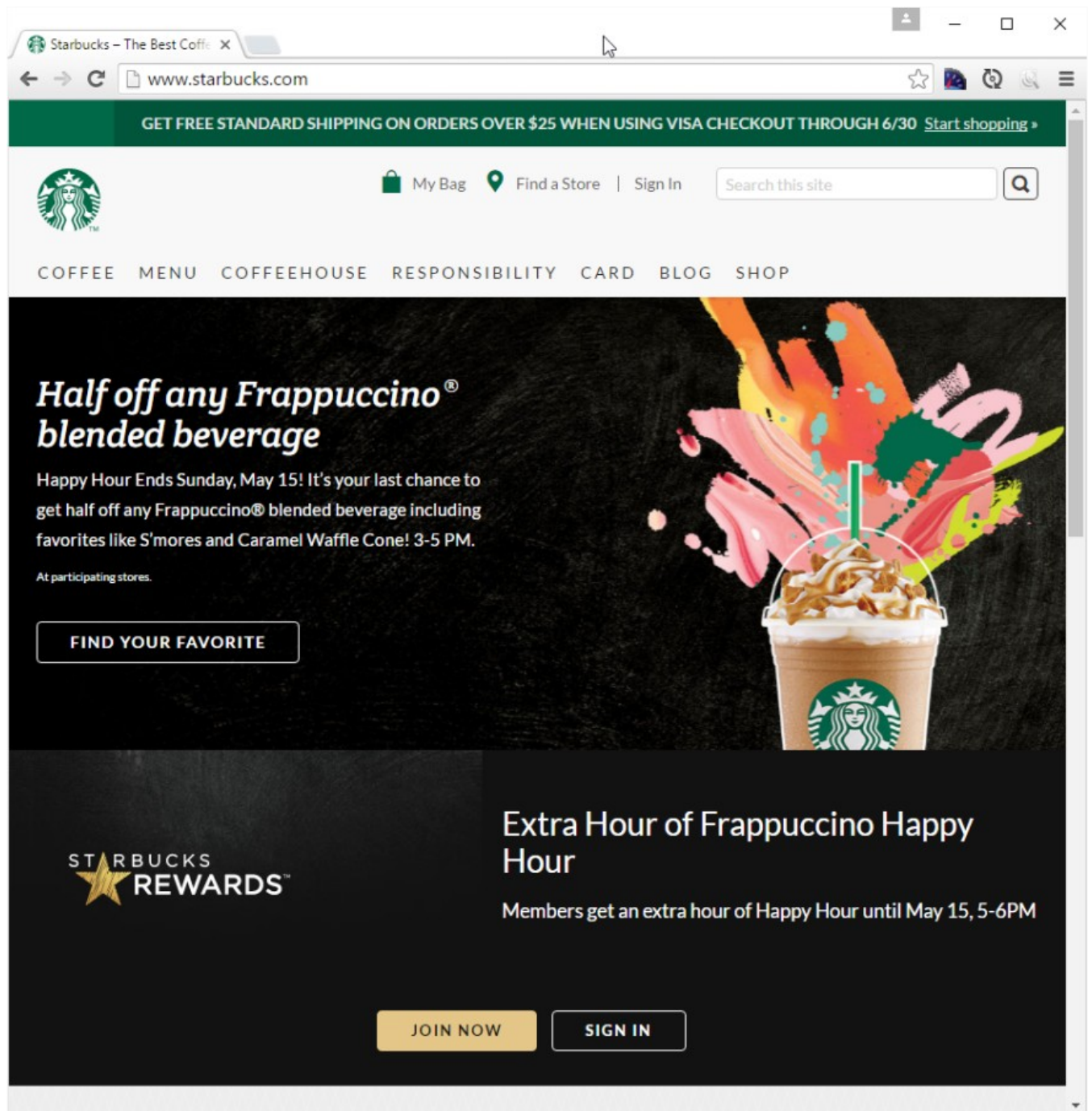
Pro novum argumentum ad. Vix at inani civibus, congue veritus probatus ad vel. Eam ne quis omnesque euripidis, pri ea dicat etiam ponderum. At sit harum dolor persius, eos vocent adipisci

```
60 @media (max-width: 47.9375rem) {
61   .fullscreen {
62     background: url('../img/videoframe.jpg') center center / cover no-repeat;
63   }
64
65   .fullvideo {
66     display: none;
67   }
68 }
69
```

```
51 @media (min-aspect-ratio: 16/9) {  
52   .fullvideo {  
53     height: 300%;  
54     top: -100%;  
55     width: 300%;  
56     left: -100%;  
57   }  
58 }
```




## Chapter 4: Exploring Media Queries



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Members get an extra hour of Happy Hour until May 15, 5-6PM




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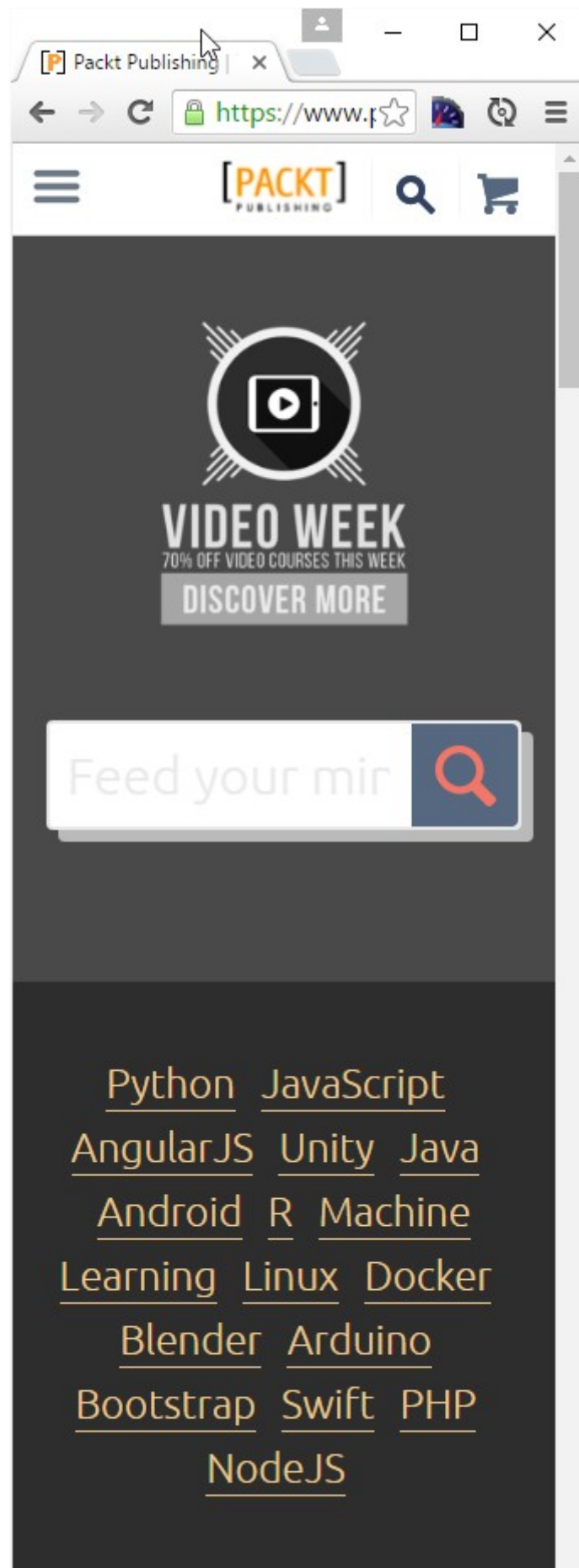
Site navigation: [PACKT] PUBLISHING, Search, Shopping Cart




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MAY 13, 2016

# An Intro to Google Tag Manager

BY GUEST AUTHOR

The following is a guest post by [David Attard](#). I only recently became aware that Google Tag Manager was

*a thing*, but didn't know exactly what it was, what it did, or why I might care to use it. Thankfully David stepped up here to explain it, so now we all can understand it. Take it David!

[\(more...\)](#)

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**Canfield Scientific, Inc.** is hiring a Lead UI Developer

**ZEBRADOG** is hiring a Interactive Developer

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## >\_ web hosting

We use and recommend [Media Temple](#) web hosting. CSS-Tricks has been on Media Temple hosting since day one and they have helped me tremendously along the way. Use coupon code **CSSTRICKS** to save 20% for the first year.

The image is a screenshot of a web browser displaying the CSS-Tricks website. The browser's address bar shows the URL "https://css-tricks.com". The website's header features the "CSS-TRICKS" logo in white on a dark background, with a navigation menu below it containing links for "Blog", "Videos", "Almanac", "Snippets", "Forums", "Shop", "Lodge", and "Jobs". The "Blog" link is highlighted in orange. The main content area shows a blog post dated "MAY 13, 2016" with the title "An Intro to Google Tag Manager" in a large, bold font. Below the title, it says "BY GUEST AUTHOR". A yellow callout box contains the text: "The following is a guest post by [David Attard](#). I only recently became aware that Google Tag Manager was". Below this, the text continues: "*a thing*, but didn't know exactly what it was, what it did, or why I might care to use it. Thankfully David stepped up here to explain it, so now we all can understand it. Take it David!". A "(more...)" link is visible at the end of the paragraph. Below the main article, a partial view of another article is visible, dated "MAY 12, 2016", with the title "Sponsor: Become an Industry-Ready Developer at Galvanize" and a link icon.

MAY 13, 2016

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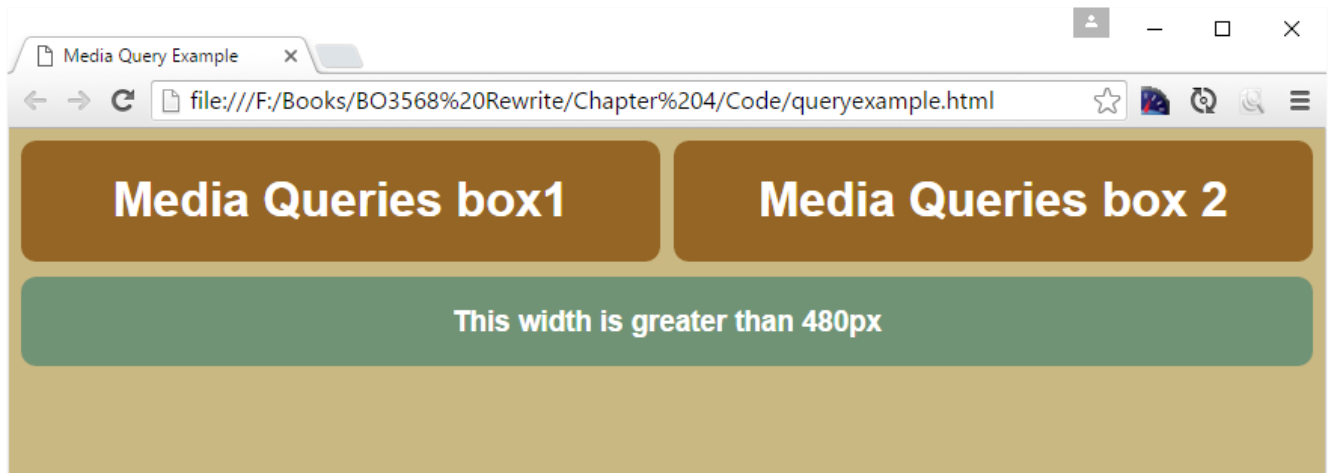
*a thing*, but didn't know exactly what it was, what it did, or why I might care to use it. Thankfully David stepped up here to explain it, so now we all can understand it. Take it David!

[\(more...\)](#)

MAY 12, 2016

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# Alex Libby

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About

## Main section

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.



## Sub-section

*Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.*

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iPhone 6 Plus ▼

736 × 414

100% ▼

DPR: 3.0 ▼

Mobile ▼



# Alex Libby



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## Main section

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et

```
<header>
  <nav id="skipTo">...</nav>
  <h1>Alex Libby</h1>
  
  <nav>...</nav>
  <div id="banner"></div> == $0
</header>
<section id="main">...</section>
```

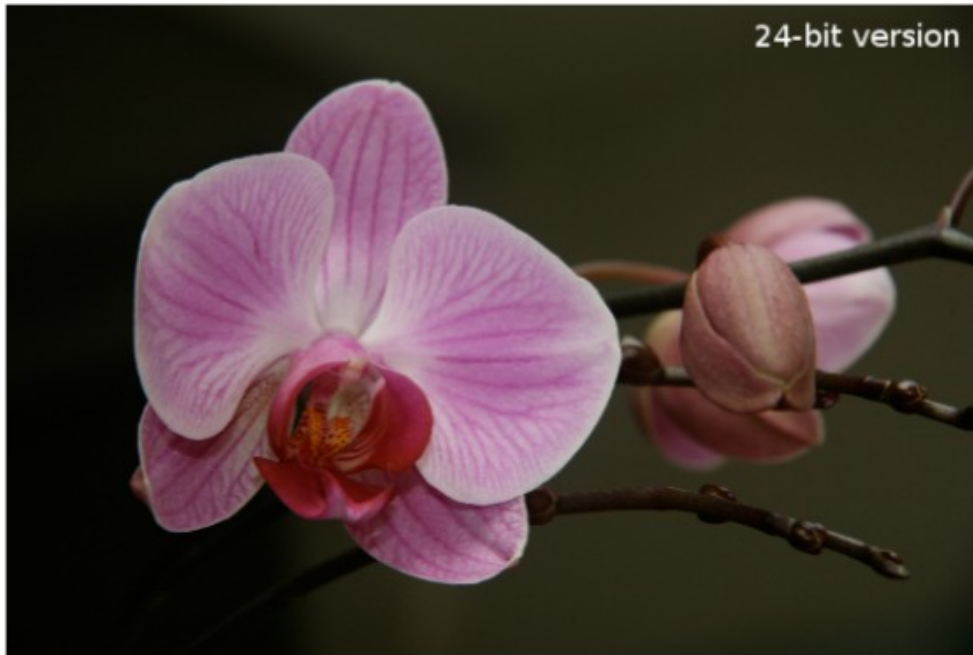
```
}
#banner {
  height: 15rem;
  width: 44.5rem;
  background-image: url('../img/coffeebeans.png');
  max-width: 100%;
}
#banner {
  float: left;
}
```





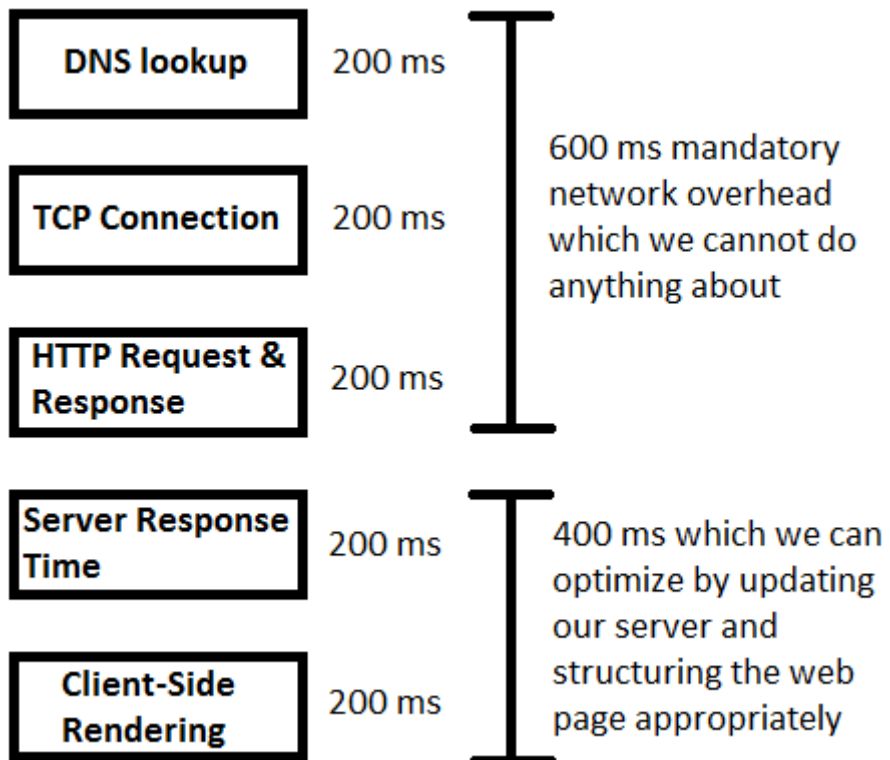
Responsive ▾ 642 × 429 100% ▾ DPR: 1.0 ▾ Desktop ▾

iPhone 6 Plus ▾ 736 × 414 100% ▾ DPR: 3.0 ▾ Mobile ▾ 



```
1  #orchid {
2    background-image: url('../img/mothorchid.png');
3    height: 24.31rem;
4    width: 36.5rem;
5  }
6
7  @media (min-resolution: 120dpi) {
8    #orchid {
9      background-image: url('../img/mothorchid@2x.png');
10     height: 24.31rem;
11     width: 36.5rem;
12   }
13 }
```

## Chapter 5: Testing and Optimizing for Performance



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Filter  Hide data URLs **All** XHR JS CSS Img Media Font Doc WS Manifest Other

Name Path	Status Text	Size Content	Time Latency	Timeline - Start Time
 ref=nav_logo	200 OK	35.7 KB 214 KB	325 ms 168 ms	
 61UIGtYaQJL_RC%7C01h78L-cgLL.css,21e1xEhXt1... z-ecx.images-amazon.com/images/l	304 Not Mo...	403 B 128 KB	93 ms 49 ms	
 AmazonUI-9695ef3fe158ea0a9f65b1ad2116f91... z-ecx.images-amazon.com/images/G/01/AUIClien..	304 Not Mo...	404 B 117 KB	92 ms 51 ms	
 AmazonGatewayAuiAssets-470c4061aef79770fd4... z-ecx.images-amazon.com/images/G/01/AUIClien..	304 Not Mo...	427 B 37.7 KB	60 ms 51 ms	
 global-sprite_bluebeacon-32-v1_CB295592523_p... g-ecx.images-amazon.com/images/G/01/gno/spr...	304 Not Mo...	404 B 25.3 KB	57 ms 48 ms	


173 requests | 1.8 MB transferred | Finish: 22.07 s | DOMContentLoaded: 961 ms | Load: 1.72 s

173 requests | 1.8 MB transferred | Finish: 22.07 s | DOMContentLoaded: 961 ms | Load: 1.72 s

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103 requests | 1.8 MB transferred | Finish: 11.74 s | DOMContentLoaded: 1.37 s | Load: 2.09 s

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# CSS Feature Queries - CR

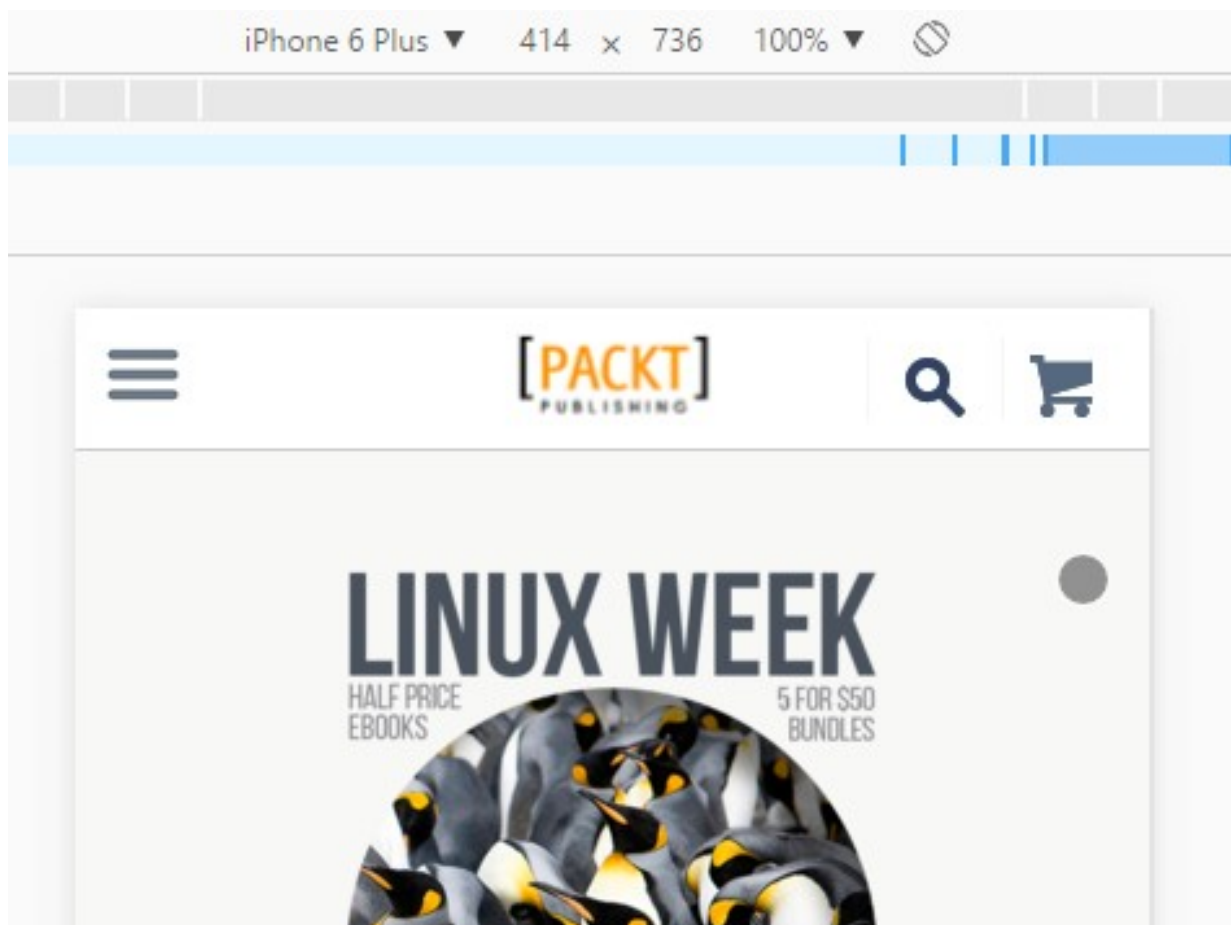
Global

69.42%

CSS Feature Queries allow authors to condition rules based on whether particular property declarations are supported in CSS using the @supports at rule.

Current aligned Usage relative Show all

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
			47					4.3	
8		44	48					4.4	
9		45	49	9		8.4		4.4.4	
11	13	46	50	9.1	36	9.2	8	47	49
	14	47	51	TP	37	9.3			
		48	52		38				
		49	53						



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Device name

Width

height

Device pixel ratio

User agent string

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