Hands-on Responsive Web Design 2: Responsive Images and Sliders

INTRODUCTION

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Agenda

- Audience & Prerequisites
- Archaeology Template
- Browsers and Devices
- Page Size
- CSS Pixels & Dots of Light

Target Audience & Prerequisites

Using Multiple Images

Pixel Density

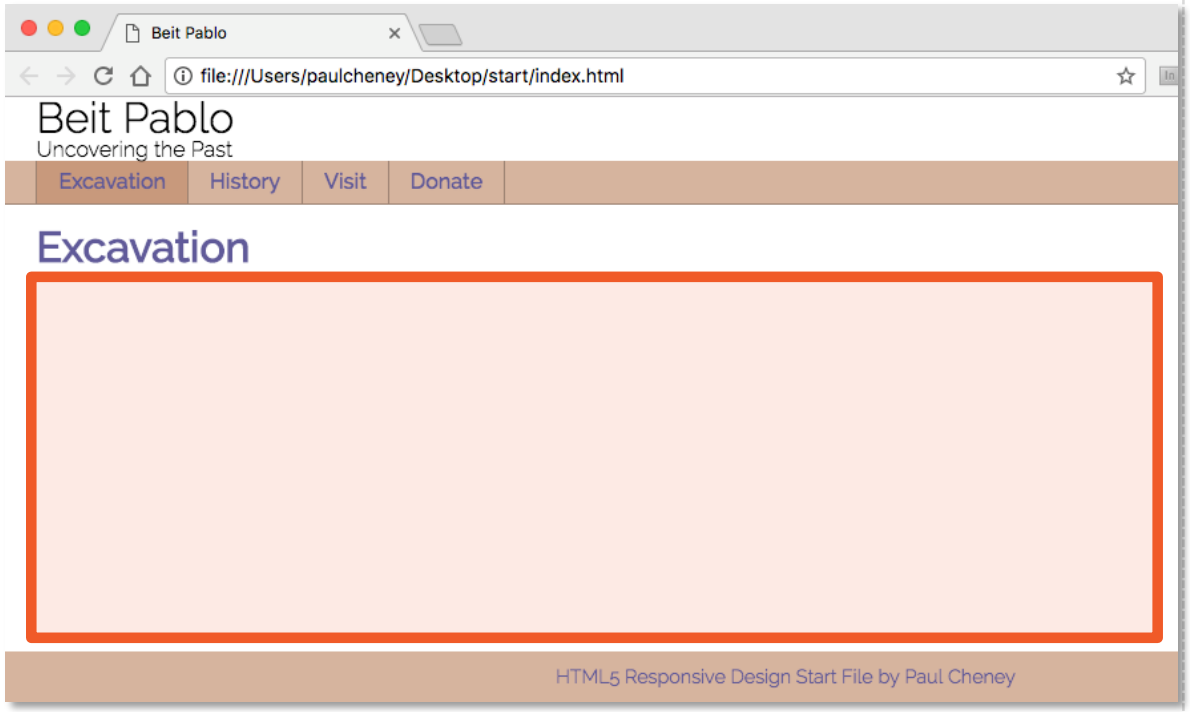
Pixel Density Images

HTML5/CSS3

Photoshop

Mobile Devices

Template



SASS

Browsers and Devices

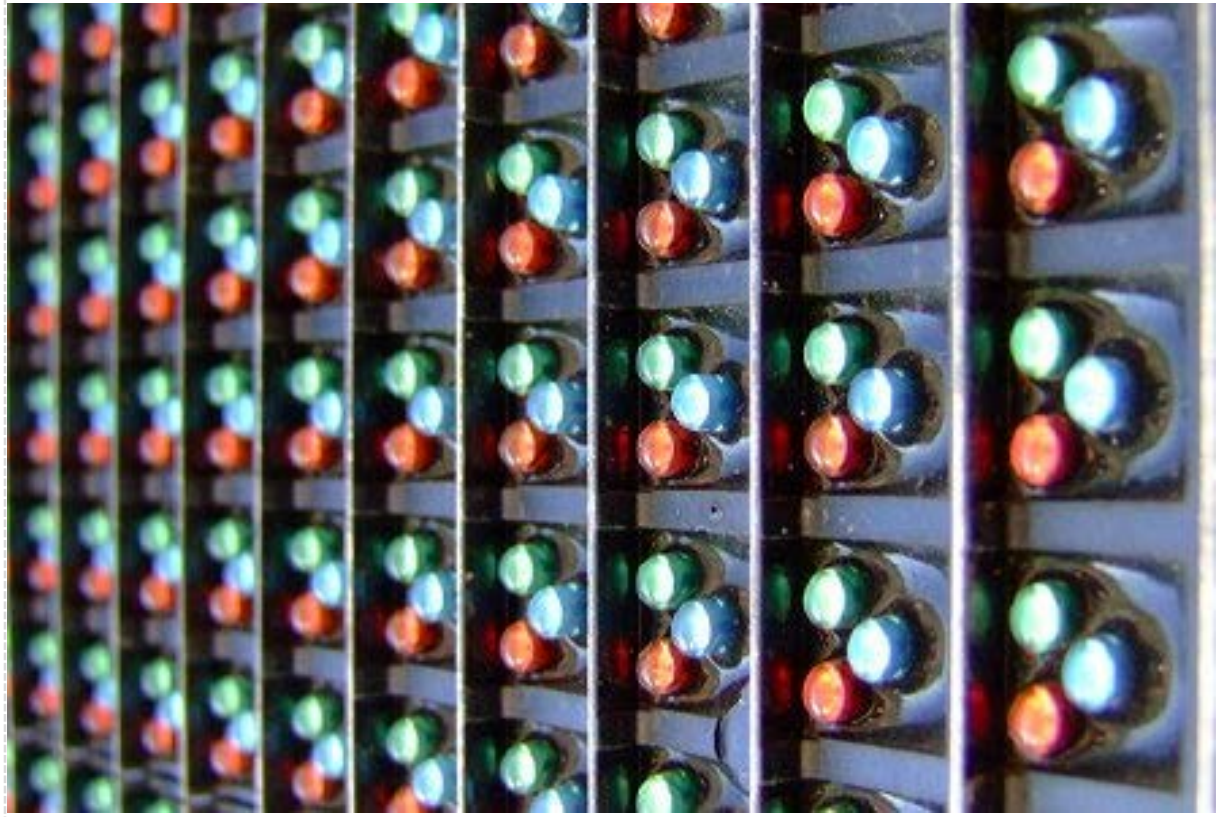
Smart	Dumb
iPhone 6	iPhone 4
iPad	Old Android Tablet
Chrome	Internet Explorer 7, 8, 9, 10
Firefox	iPad 1st generation
Safari	
Opera	
Internet Explorer 10 (sometimes)	

graceful degradation

Page Size

500k

CSS Pixels & Dots of Light



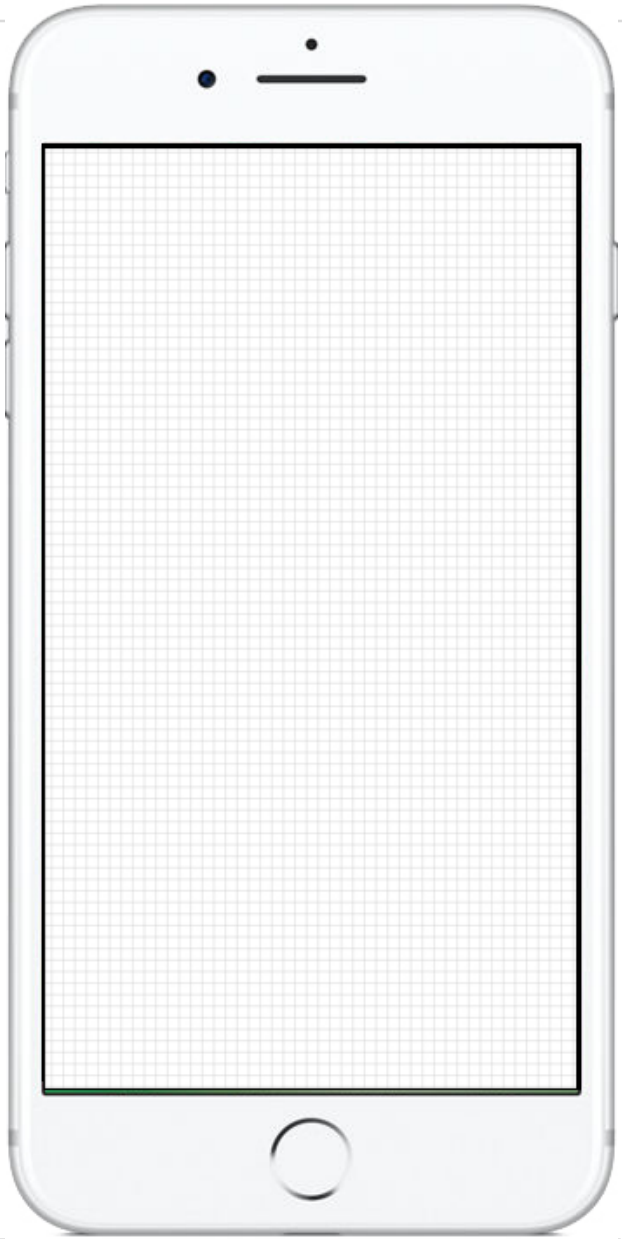
CSS Pixels

Screen Width

Pixels Ratio

LCD

#fec1d6



CSS Pixels

Device Pixels

Dots of Light

320 pixels

640 dots of light

```
<meta
name="viewport"
content="width=device
-width">
```

Pixel Ratio

iPad 2

1x

768 pixels

768 dots of light

iPad 4

2x

768 pixels

1536 dots of light

$$\frac{1536}{768} = 2$$

Pixel Ratio

iPhone 6 Plus

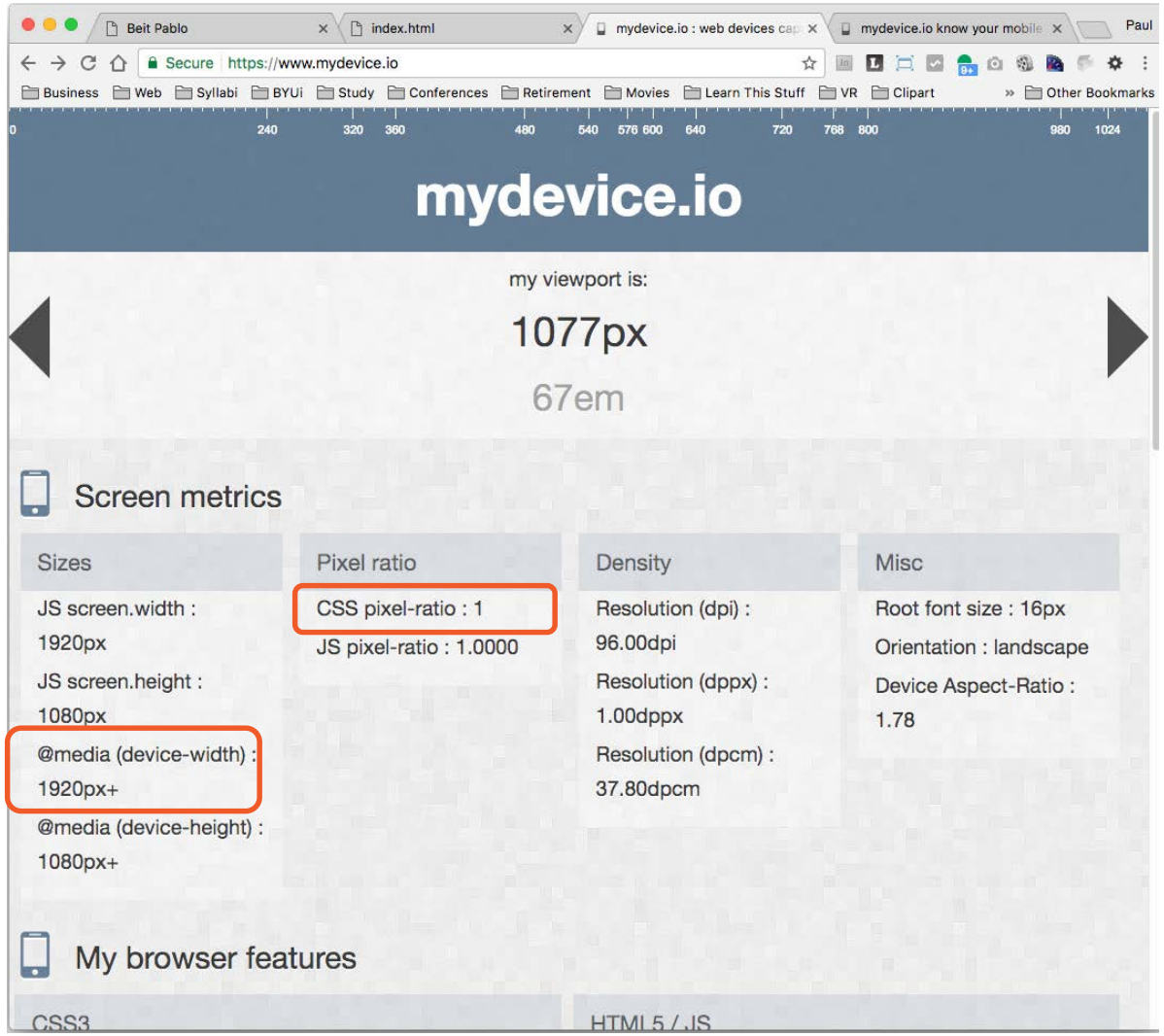
3x

414 pixels

1080 dots of light

$$\frac{1080}{414} = 2.608$$

Your Device


Beit Pablo
index.html
mydevice.io : web devices
mydevice.io know your mobile
Paul
Secure https://www.mydevice.io
Business Web Syllabi BYUi Study Conferences Retirement Movies Learn This Stuff VR Clipart Other Bookmarks
0 240 320 360 480 540 576 600 640 720 768 800 980 1024
mydevice.io
my viewport is:
1077px
67em
Screen metrics
Sizes
JS screen.width : 1920px
JS screen.height : 1080px
@media (device-width) : 1920px+
@media (device-height) : 1080px+
Pixel ratio
CSS pixel-ratio : 1
JS pixel-ratio : 1.0000
Density
Resolution (dpi) : 96.00dpi
Resolution (dppx) : 1.00dppx
Resolution (dpcm) : 37.80dpcm
Misc
Root font size : 16px
Orientation : landscape
Device Aspect-Ratio : 1.78
My browser features
CSS3
HTML 5 / JS

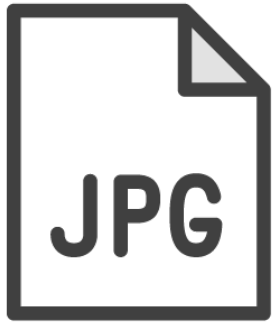
show me other devices ?
mydevice.io made with love by @goetter, with Modernizr and help from @eQRoeil and @nhoizey

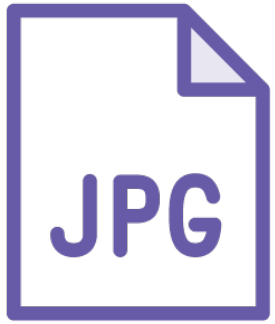
Common Smartphones values

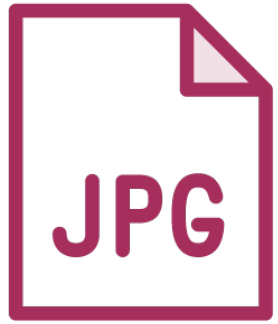
dots of light

name	phys. height	CSS width	CSS height	pixel ratio	phys. ppi	CSS ppi
Apple iPhone 7	750	1334	375	667	2	326	192
Apple iPhone 6 Plus, 6s Plus	1080	1920	414	736	3	401	249
Apple iPhone 6, 6s	750	1334	375	667	2	326	192
Apple iPhone 5	640	1136	320	568	2	326	192
Apple iPhone 4	640	960	320	480	2	326	192
Apple iPhone 3	320	480	320	480	1	163	96
Apple iPod Touch	640	1136	320	568	2	326	192
LG G5	1440	2560	360	640	4	538	384
LG G4	1440	2560	360	640	4	538	384
LG G3	1440	2560	360	640	4	538	384
LG Optimus G	768	1280	384	640	2	318	192
Samsung Galaxy S7, S7 edge	1440	2560	360	640	4	534	384
Samsung Galaxy S6	1440	2560	360	640	4	577	384
Samsung Galaxy S5	1080	1920	360	640	3	441	288
Samsung Galaxy S4	1080	1920	360	640	3	441	288
Samsung Galaxy S4 mini	540	960	360	640	1.5	256	144

Dumb	1x	2x	3x
iPad 1	Desktop	iPod Touch	iPhone 6 Plus
iPhone 4		iPhone 6	
IE			







Summary

- Audience & Prerequisites
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Introduction

Background and Scaling Image

Pixel Density Logo

Similar Sized Responsive Images

Different Sized Responsive Images

Combination Responsive Image

Full Width Image

Lazy Load Images

Image Sliders