Image Sliders

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Agenda

- Review Start Folder
- Features
- Simple Example
- Responsive Example
- Testing

About Sliders

Opinions

Purpose

Visually Interesting

Tell a Story

1

2

3

4

5

500k

User Experience

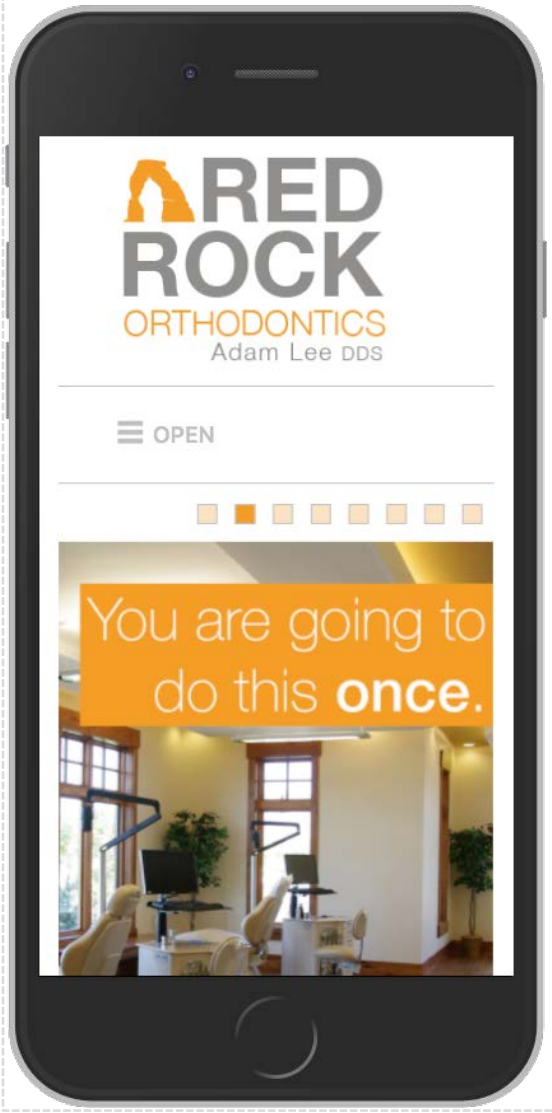
All Devices

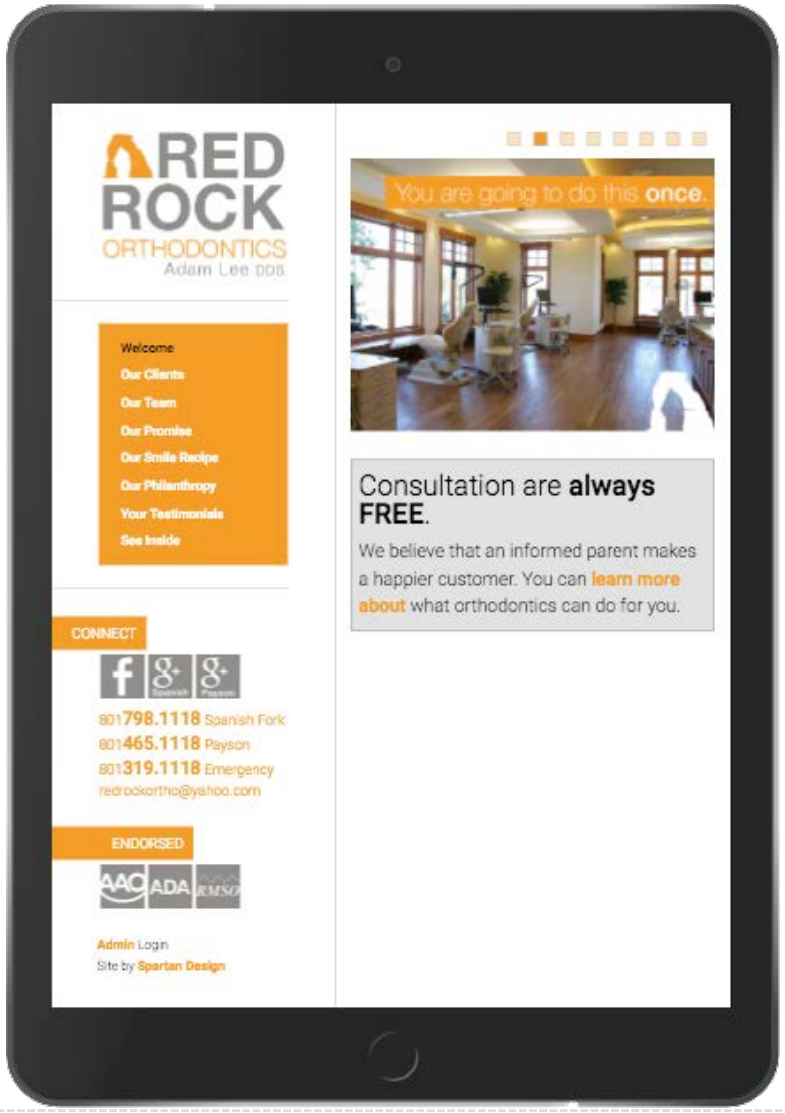
Images

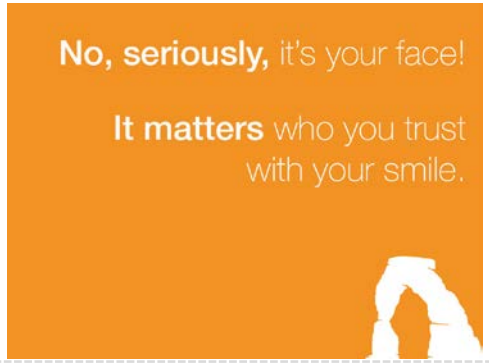
468px

944px

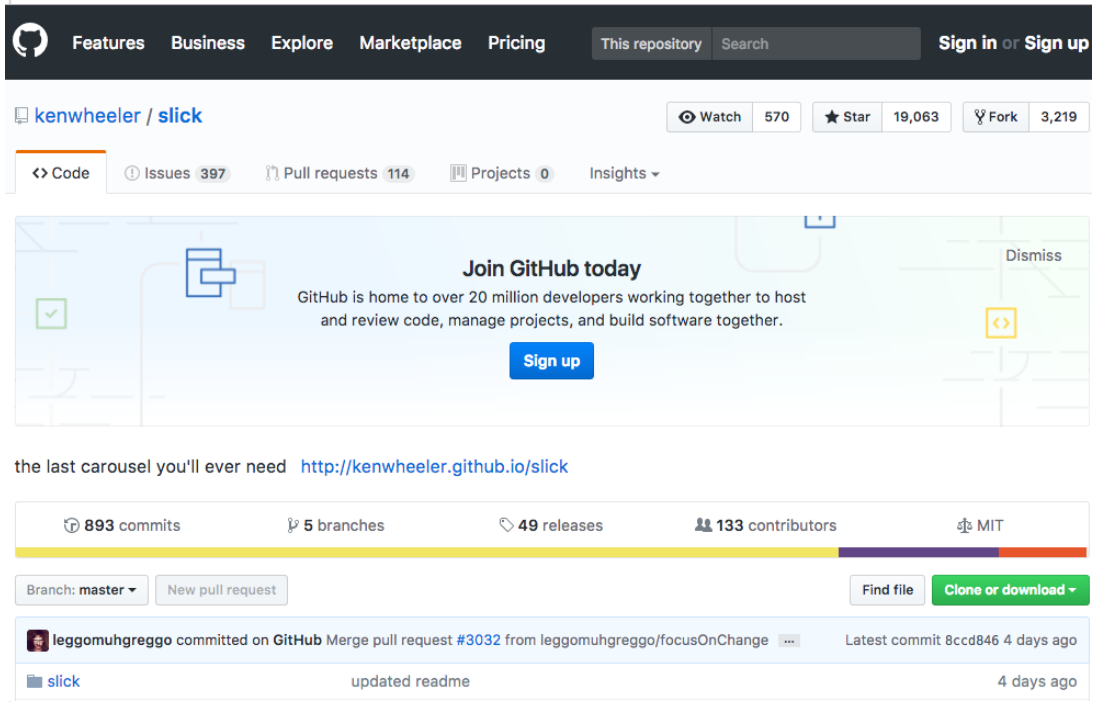
Redrock Orthodontics



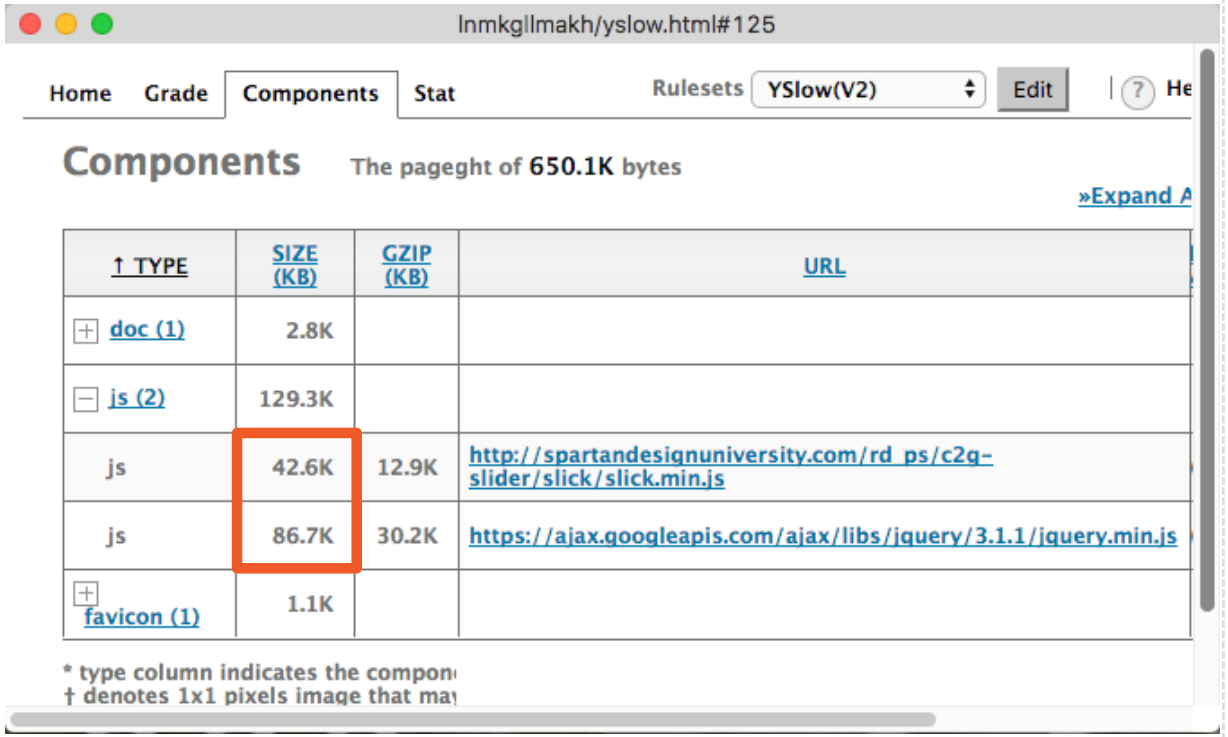




Slick Slider



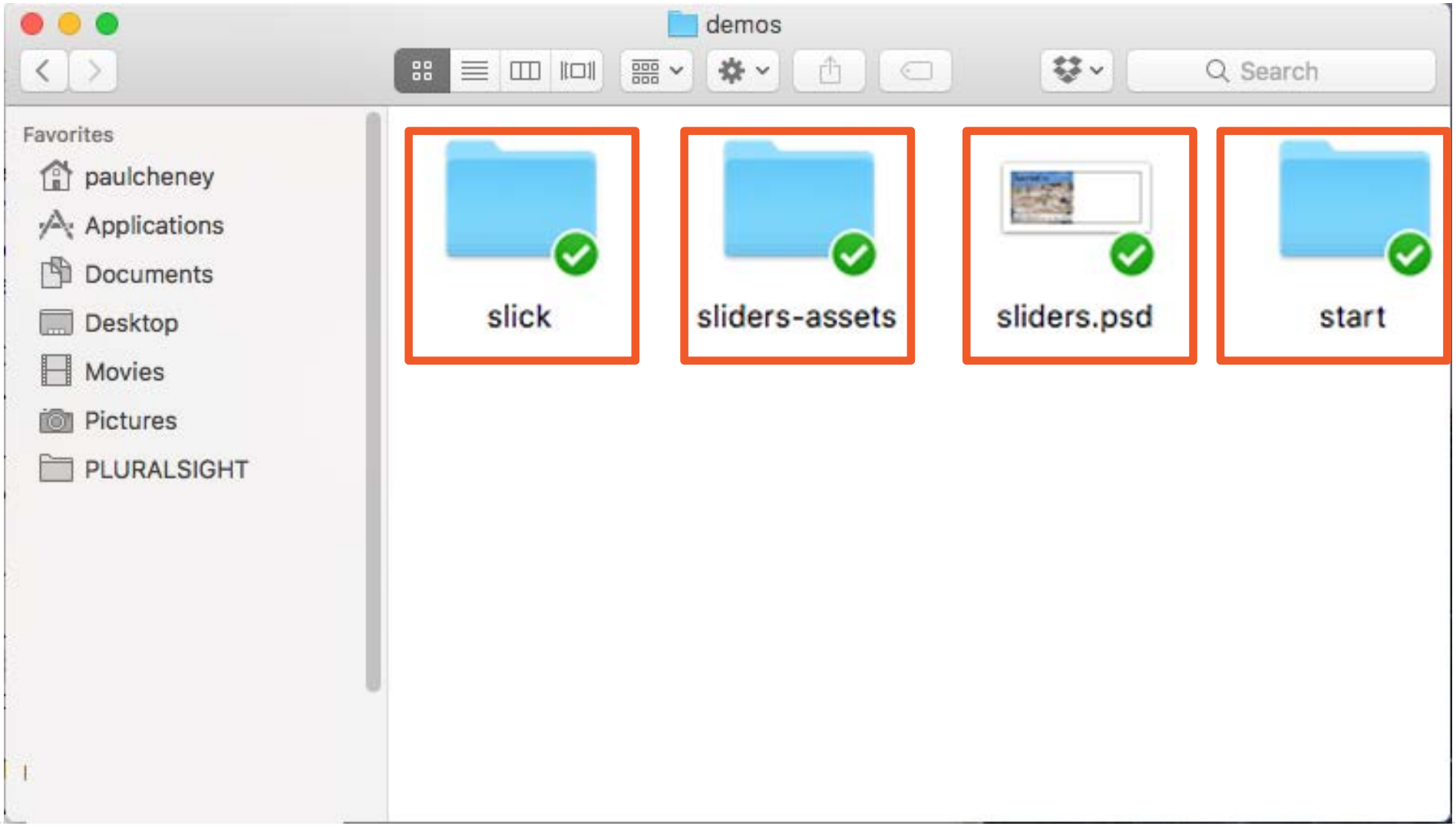
https://github.com/kenwheeler/slick



Features

- dots
- arrows
- speed
- autoplay
- action

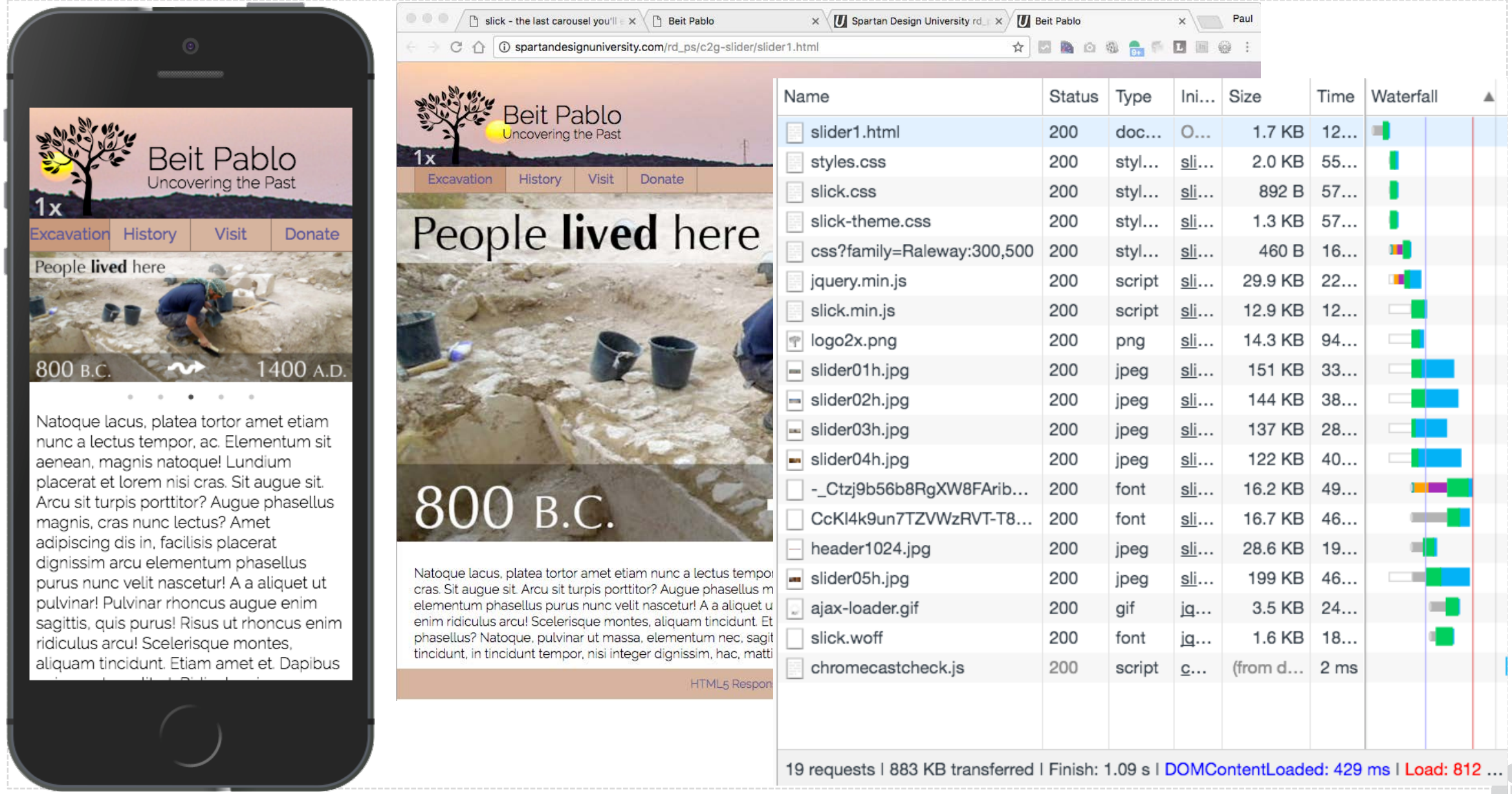
Demos


demos
Search
Favorites
paulcheney
Applications
Documents
Desktop
Movies
Pictures
PLURALSIGHT
slick
sliders-assets
sliders.psd
start

Please get a copy of the start folder on your desktop and open it in your favorite text editor and lets get started.
First we need all 10 of the slider images copied to the start folder from the demos folder. We will place them in a folder called "sliders"
Download a copy of the latest version of the slick slider from github.
Unzip the file and open it to see the contents
Copy the slick folder and past it into the start folder. We will only be using some of these files
Inside the slick folder there are two css files we need. Open up the slider1.htm and place a link in the header to the slick.css and the slick-theme.css.
Next add a link to the latest minified version of jQuery from Google CDN. We will place the link right above the closing body tag.
Next we will link to the slick.min.js script written by Ken for the slick slider. This file is in the local "slick" folder.
Finally we will Initialize the slider using an inline script tag.
Type an opening and closing script tag.
Inside that type $ (document).ready(function() {
Then another $('').slick({
press return twice---
Then we close the second function with });
and close the first function with });
Now you may be wondering what goes between the single quotes. Well, we need to make up a class name which we will use above. For now lets type dot myslider

Now we can scroll up the the main tag and build our slider.
Lets start with a open and close division. We will assign it a class of "myslider" typed exactly as we did below. Remember to add a comment to the closing div to keep track of it.
Now we create another open and closing division for each slider.
Inside that division, we add an image with a source pointing to slider01h.jpg
Lets open our html file in a browser and see if the image is showing up. It looks like it is.
Lets now add the remaining 4 sliders to the html code.
When we test our page again we can see that all the images are there and sliding.
However, if you change the screen width, you can see that the slider images are NOT responsive.
Make sure you have your css preprocessor running and open the small-default scss file.
We will add two lines of code. The first one makes the division full width and the second one makes the image the full width of the containing division.
Now when we look at the results again, we can see that the image responds to the width of the browser window.
Now lets add some parameters to the slick slider.
In the html file we will add settings to the slider

First we will start the slider automatically using autoplay: true, Now when we reload the page and wait we can see the first slider go.
Next we add dots: true, to turn on the dots below the images. Along with that we want to turn off the arrows using arrows: false, You can see the dots here below the sliders.
We also have the ability to change the sliding action to ease out using cssEase: 'ease-out',
We can also control the transition speed. Lets try speed: 1000, which should be one second.
We can also control the length of time the images is displayed. Lets try autoplaySpeed: 3000, which is three seconds.
Lets look at our page and we can see that after three seconds, there is a 1 second transition to the next image. Another three second wait and a 1 second transition.
Now lets switch the values to 3 second transition and 1 second wait.
Now we have one second wait and a s-l-o-w three second transition.
Lets changes these to a more acceptable 2 second transition and a 10 second wait


Beit Pablo
Uncovering the Past
1x
Excavation
History
Visit
Donate
People lived here
800 B.C.
1400 A.D.
Natoque lacus, platea tortor amet etiam nunc a lectus tempor, ac. Elementum sit aenean, magnis natoque! Lundium placerat et lorem nisi cras. Sit augue sit. Arcu sit turpis porttitor? Augue phasellus magnis, cras nunc lectus? Amet adipiscing dis in, facilisis placerat dignissim arcu elementum phasellus purus nunc velit nascetur! A a aliquet ut pulvinar! Pulvinar rhoncus augue enim sagittis, quis purus! Risus ut rhoncus enim ridiculus arcu! Scelerisque montes, aliquam tincidunt. Etiam amet et. Dapibus
slick - the last carousel you'll
Beit Pablo
Spartan Design University
Paul
spartandesignuniversity.com/rd_ps/c2g-slider/slider1.html
Name
Status
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Ini...
Size
Time
Waterfall
slider1.html 200 doc... O... 1.7 KB 12...
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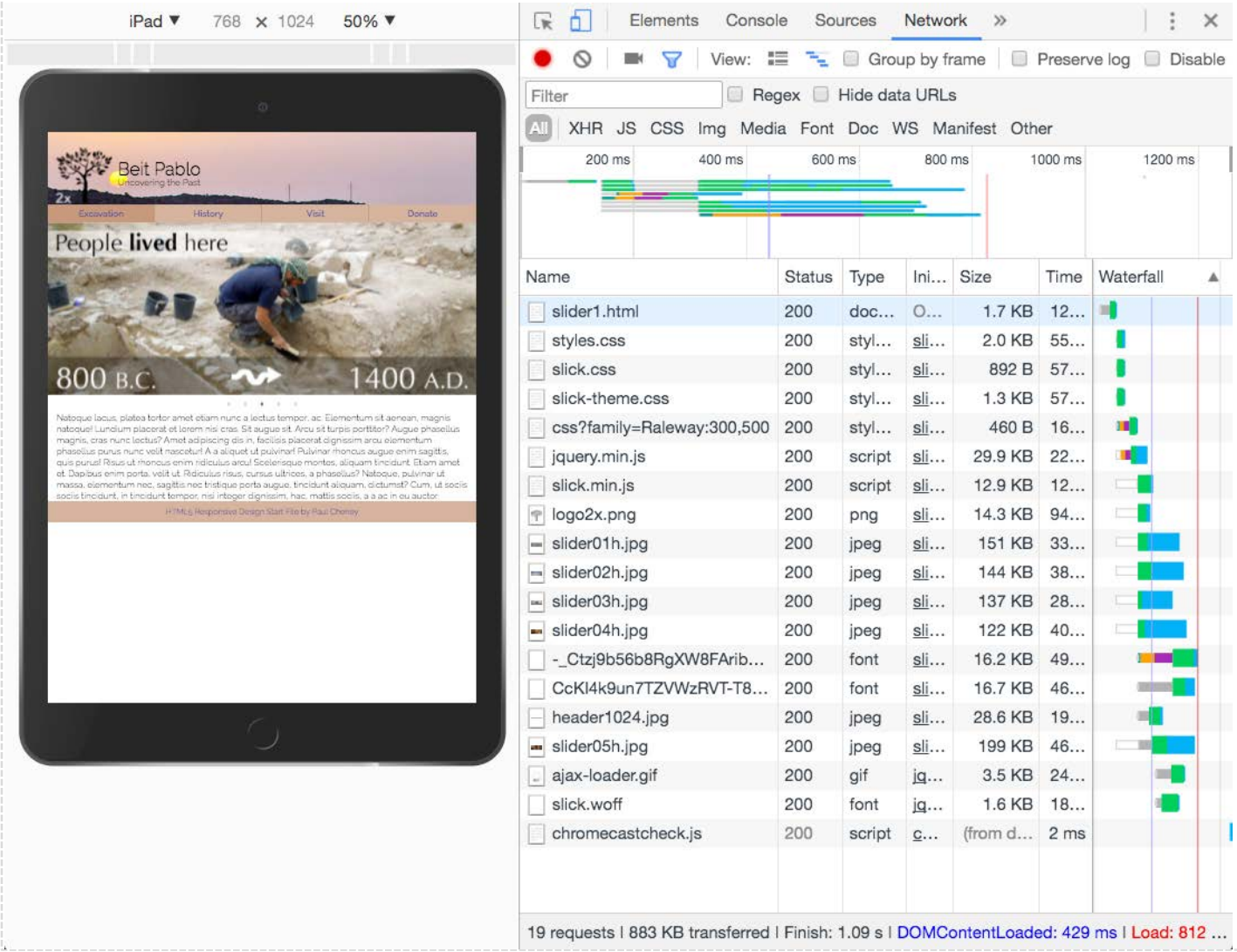
slick-theme.css 200 styl... sli... 1.3 KB 57...
css?family=Raleway:300,500 200 styl... sli... 460 B 16...
jquery.min.js 200 script sli... 29.9 KB 22...
slick.min.js 200 script sli... 12.9 KB 12...
logo2x.png 200 png sli... 14.3 KB 94...
slider01h.jpg 200 jpeg sli... 151 KB 33...
slider02h.jpg 200 jpeg sli... 144 KB 38...
slider03h.jpg 200 jpeg sli... 137 KB 28...
slider04h.jpg 200 jpeg sli... 122 KB 40...
-_Ctzj9b56b8RgXW8FArib... 200 font sli... 16.2 KB 49...
CcKl4k9un7TZVWzRVT-T8... 200 font sli... 16.7 KB 46...
header1024.jpg 200 jpeg sli... 28.6 KB 19...
slider05h.jpg 200 jpeg sli... 199 KB 46...
ajax-loader.gif 200 gif jq... 3.5 KB 24...
slick.woff 200 font jq... 1.6 KB 18...
chromecastcheck.js 200 script c... (from d... 2 ms
19 requests | 883 KB transferred | Finish: 1.09 s | DOMContentLoaded: 429 ms | Load: 812 ...

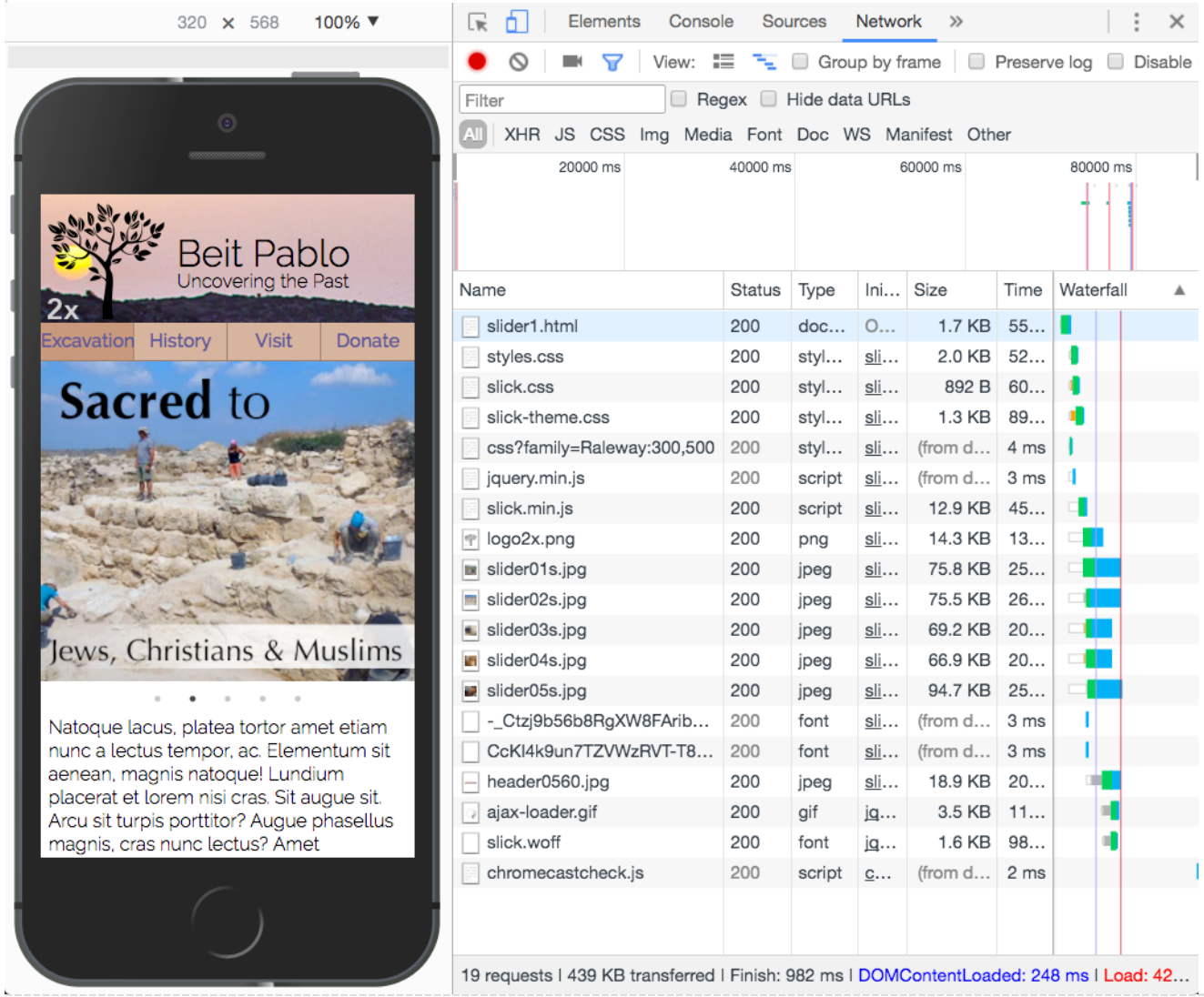
Lets return to our editor and change the HTML.
To make sure all phones regardless of their pixel density are displaying the square images instead of the wide images we will use the picture tag.
Delete the 5 divisions with the current slider images.
Add an opening and closing picture tag
Inside that add a source with a sourceset pointing to the large image and media set to 29.25rem which is the width if the smaller image. This image will be use when the window is WIDER than 29.25rem.
Next add a default image with a srcset pointing to the smaller version of the slider. You should also have alt tags filled out for accessibility.
Lets test that and see if it works. Notice as we change the width of the browser, we can see the square image on the small screen and the bigger one on the wider screen.
Now its simply a matter of copying and pasting 4 more times and changing the image names.

Lets upload the start folder to a real server so we can run some tests.

Speed Tests


iPad
768 × 1024
50%
Beit Pablo
Uncovering the Past
Excavation
History
Visit
Donate
People lived here
800 B.C.
1400 A.D.
Elements
Console
Sources
Network
View:
Group by frame
Preserve log
Disable
Filter
Regex
Hide data URLs
All
XHR
JS
CSS
Img
Media
Font
Doc
WS
Manifest
Other
200 ms
400 ms
600 ms
800 ms
1000 ms
1200 ms
Name
Status
Type
Ini...
Size
Time
Waterfall
slider1.html 200 doc... O... 1.7 KB 12...
styles.css 200 styl... sli... 2.0 KB 55...
slick.css 200 styl... sli... 892 B 57...
slick-theme.css 200 styl... sli... 1.3 KB 57...
css?family=Raleway:300,500 200 styl... sli... 460 B 16...
jquery.min.js 200 script sli... 29.9 KB 22...
slick.min.js 200 script sli... 12.9 KB 12...
logo2x.png 200 png sli... 14.3 KB 94...
slider01h.jpg 200 jpeg sli... 151 KB 33...
slider02h.jpg 200 jpeg sli... 144 KB 38...
slider03h.jpg 200 jpeg sli... 137 KB 28...
slider04h.jpg 200 jpeg sli... 122 KB 40...
-_Ctzj9b56b8RgXW8FArib... 200 font sli... 16.2 KB 49...
CcKl4k9un7TZVWzRVT-T8... 200 font sli... 16.7 KB 46...
header1024.jpg 200 jpeg sli... 28.6 KB 19...
slider05h.jpg 200 jpeg sli... 199 KB 46...
ajax-loader.gif 200 gif jq... 3.5 KB 24...
slick.woff 200 font jq... 1.6 KB 18...
chromecastcheck.js 200 script c... (from d... 2 ms
19 requests | 883 KB transferred | Finish: 1.09 s | DOMContentLoaded: 429 ms | Load: 812 ...

Speed Tests

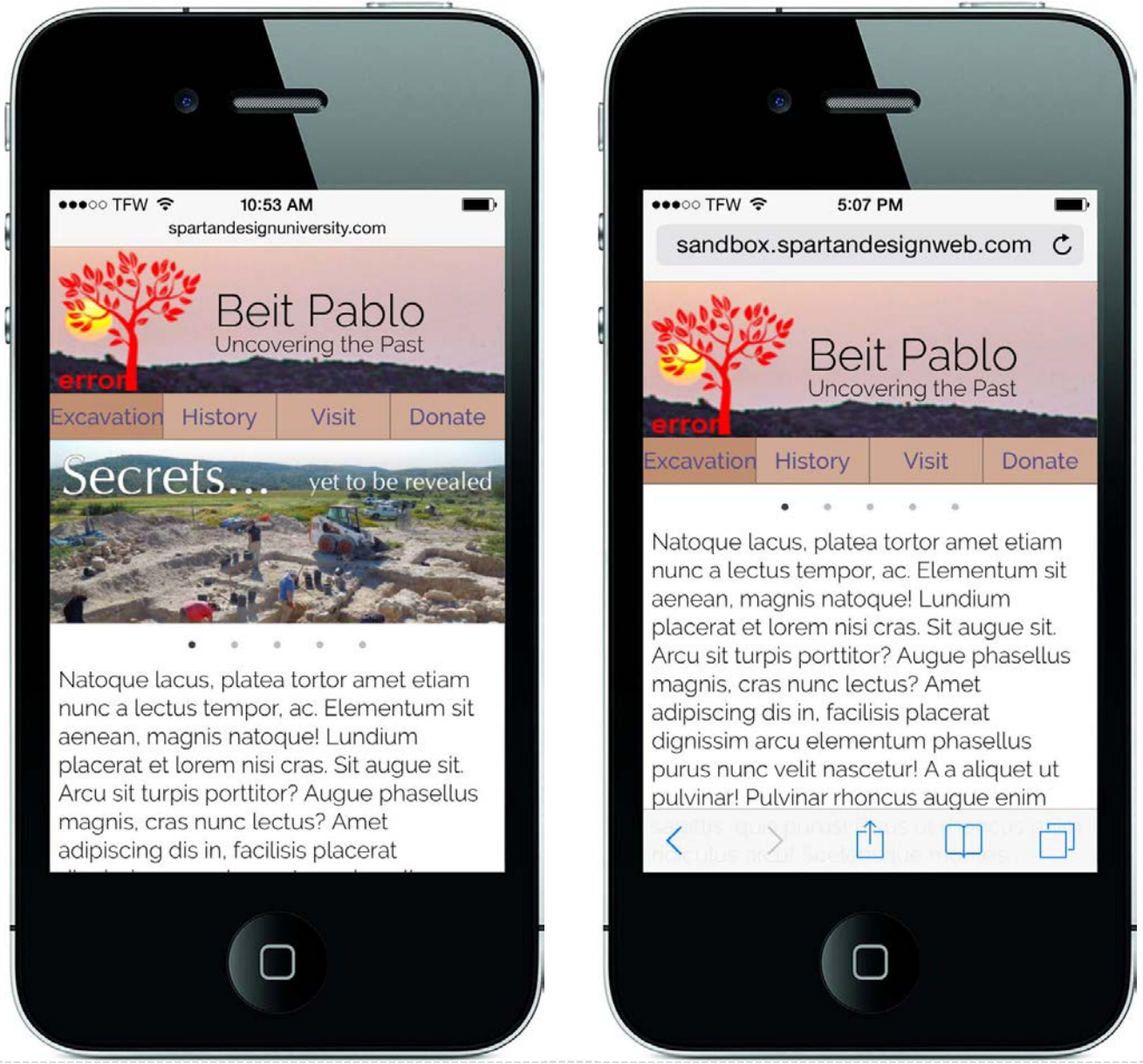

320 × 568 100%
Beit Pablo
Uncovering the Past
2x
Excavation History Visit Donate
Sacred to
Jews, Christians & Muslims
Natoque lacus, platea tortor amet etiam nunc a lectus tempor, ac. Elementum sit aenean, magnis natoque! Lundium placerat et lorem nisi cras. Sit augue sit. Arcu sit turpis porttitor? Augue phasellus magnis, cras nunc lectus? Amet
Elements Console Sources Network
View: Group by frame Preserve log Disable
Filter Regex Hide data URLs
All XHR JS CSS Img Media Font Doc WS Manifest Other
20000 ms 40000 ms 60000 ms 80000 ms
Name Status Type Ini... Size Time Waterfall
slider1.html 200 doc... O... 1.7 KB 55...
styles.css 200 styl... sli... 2.0 KB 52...
slick.css 200 styl... sli... 892 B 60...
slick-theme.css 200 styl... sli... 1.3 KB 89...
css?family=Raleway:300,500 200 styl... sli... (from d... 4 ms
jquery.min.js 200 script sli... (from d... 3 ms
slick.min.js 200 script sli... 12.9 KB 45...
logo2x.png 200 png sli... 14.3 KB 13...
slider01s.jpg 200 jpeg sli... 75.8 KB 25...
slider02s.jpg 200 jpeg sli... 75.5 KB 26...
slider03s.jpg 200 jpeg sli... 69.2 KB 20...
slider04s.jpg 200 jpeg sli... 66.9 KB 20...
slider05s.jpg 200 jpeg sli... 94.7 KB 25...
-_Ctzj9b56b8RgXW8FArib... 200 font sli... (from d... 3 ms
CcKl4k9un7TZVWzRVT-T8... 200 font sli... (from d... 3 ms
header0560.jpg 200 jpeg sli... 18.9 KB 20...
ajax-loader.gif 200 gif jq... 3.5 KB 11...
slick.woff 200 font jq... 1.6 KB 98...
chromecastcheck.js 200 script c... (from d... 2 ms
19 requests | 439 KB transferred | Finish: 982 ms | DOMContentLoaded: 248 ms | Load: 42...

iPhone 4

CSS Dimensions
width 320px
height 480px

Dots of Light
width 640
height 960

Pixel Ratio
2

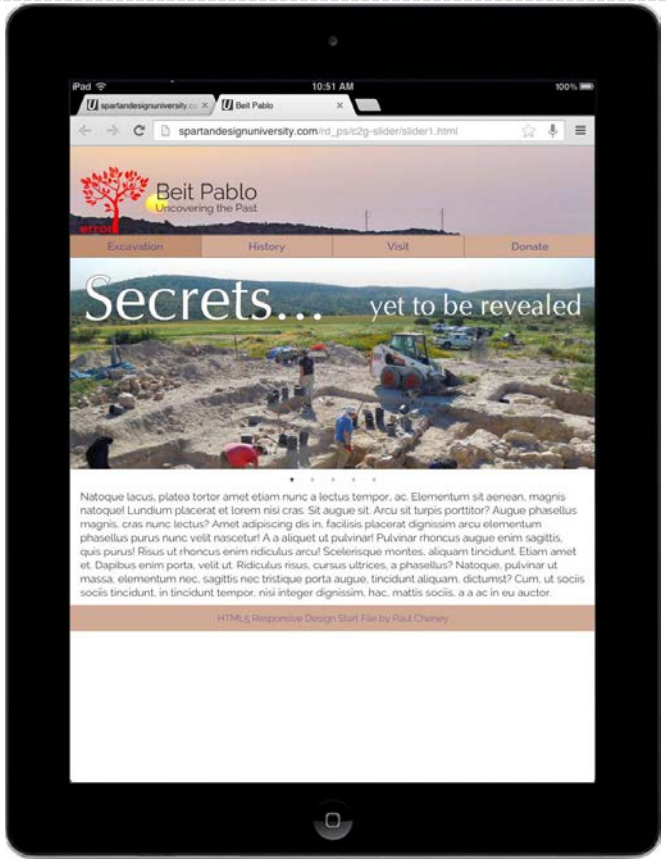


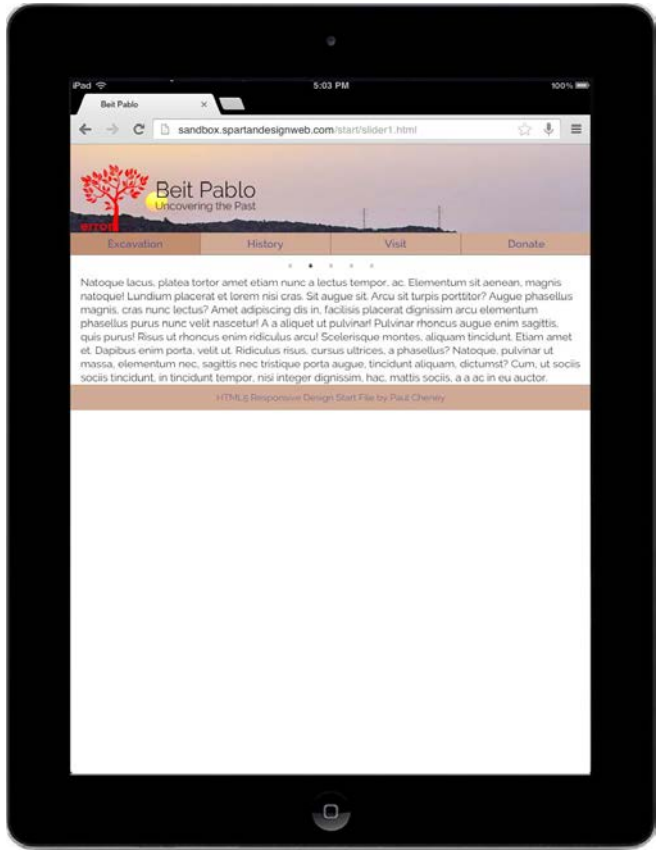
iPad 1

CSS Dimensions
width 768px
height 1024px

Dots of Light
width 768
height 1024

Pixel Ratio
1



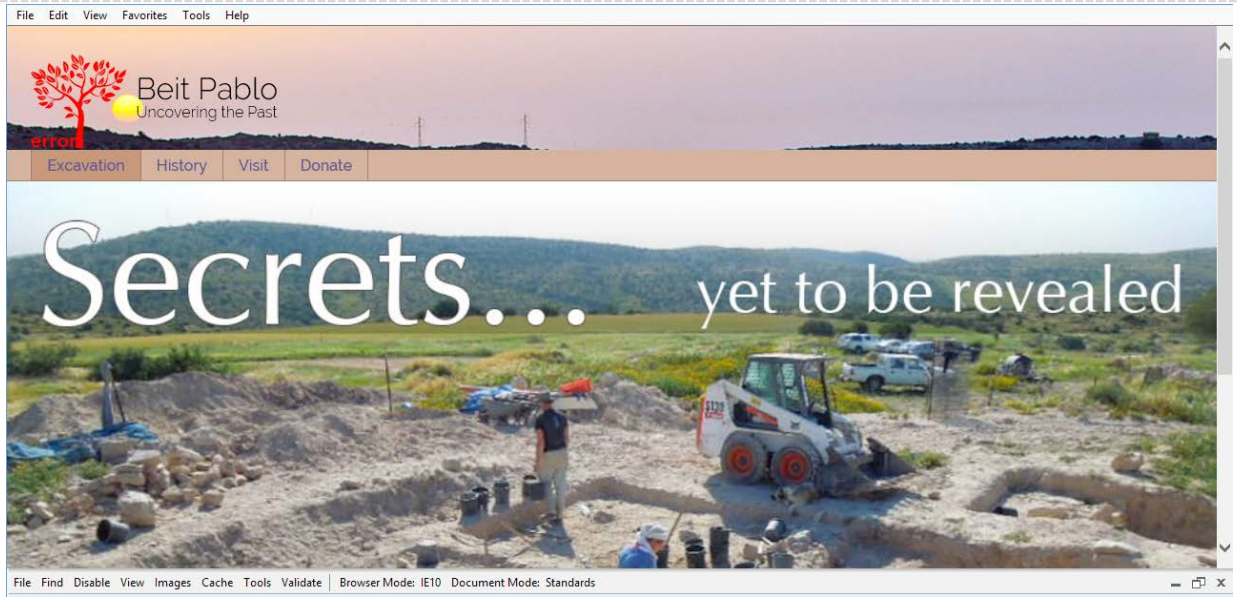


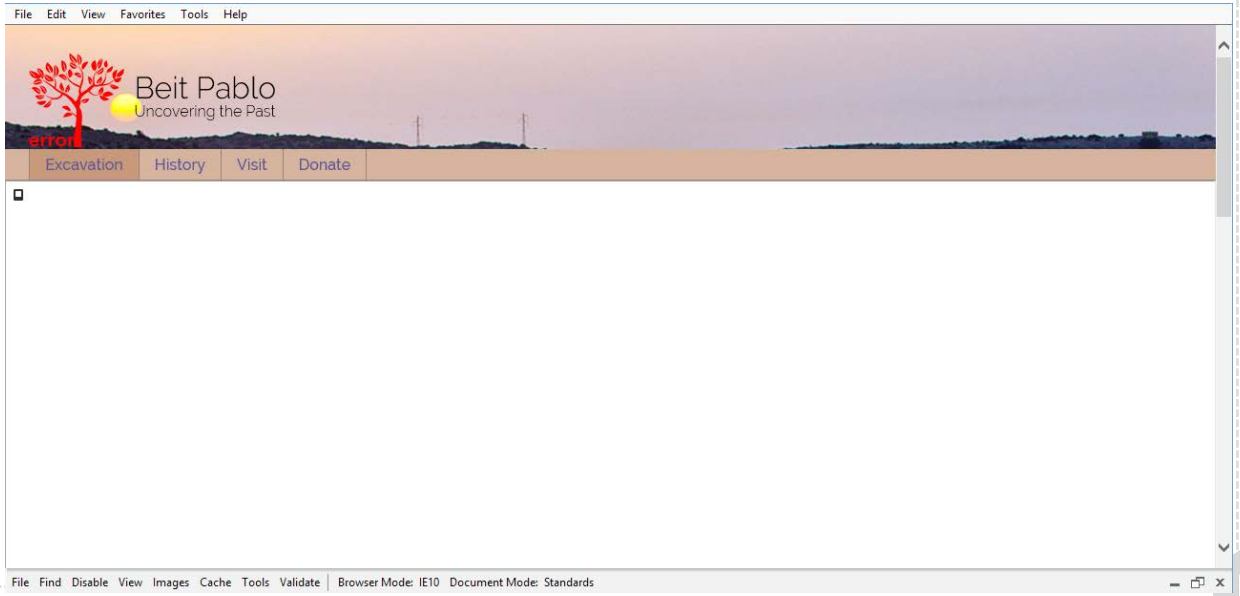
Internet Explorer

CSS Dimensions
width variable
height variable

Dots of Light
width variable
height variable

Pixel Ratio
1



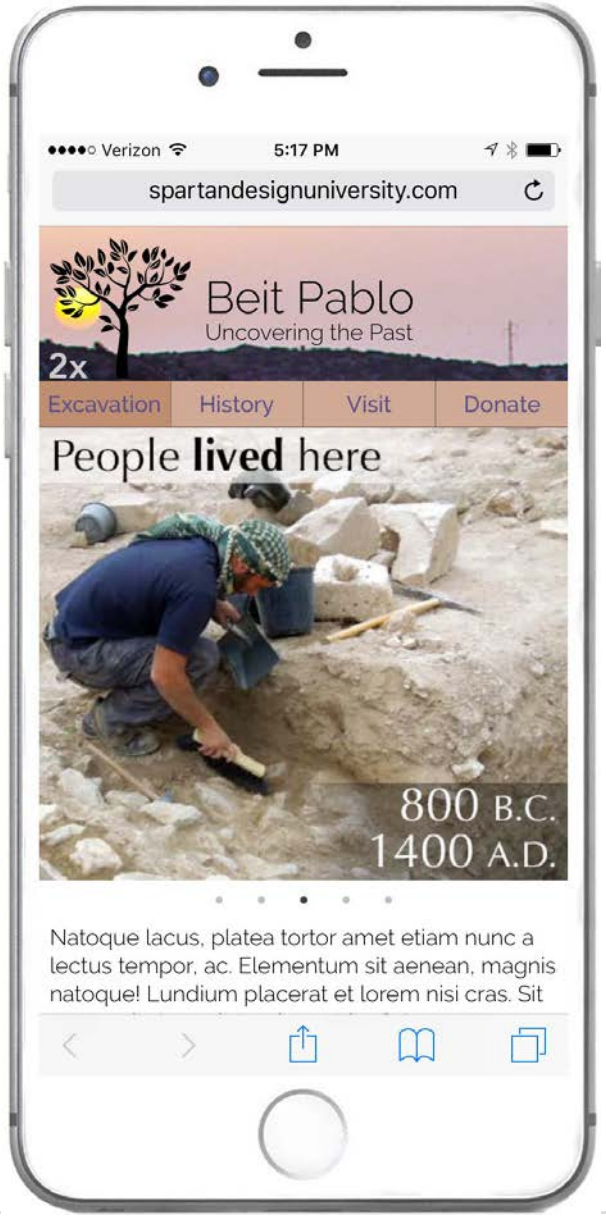


iPhone 6

CSS Dimensions
width 375px
height 667px

Dots of Light
width 750
height 1334

Pixel Ratio
2

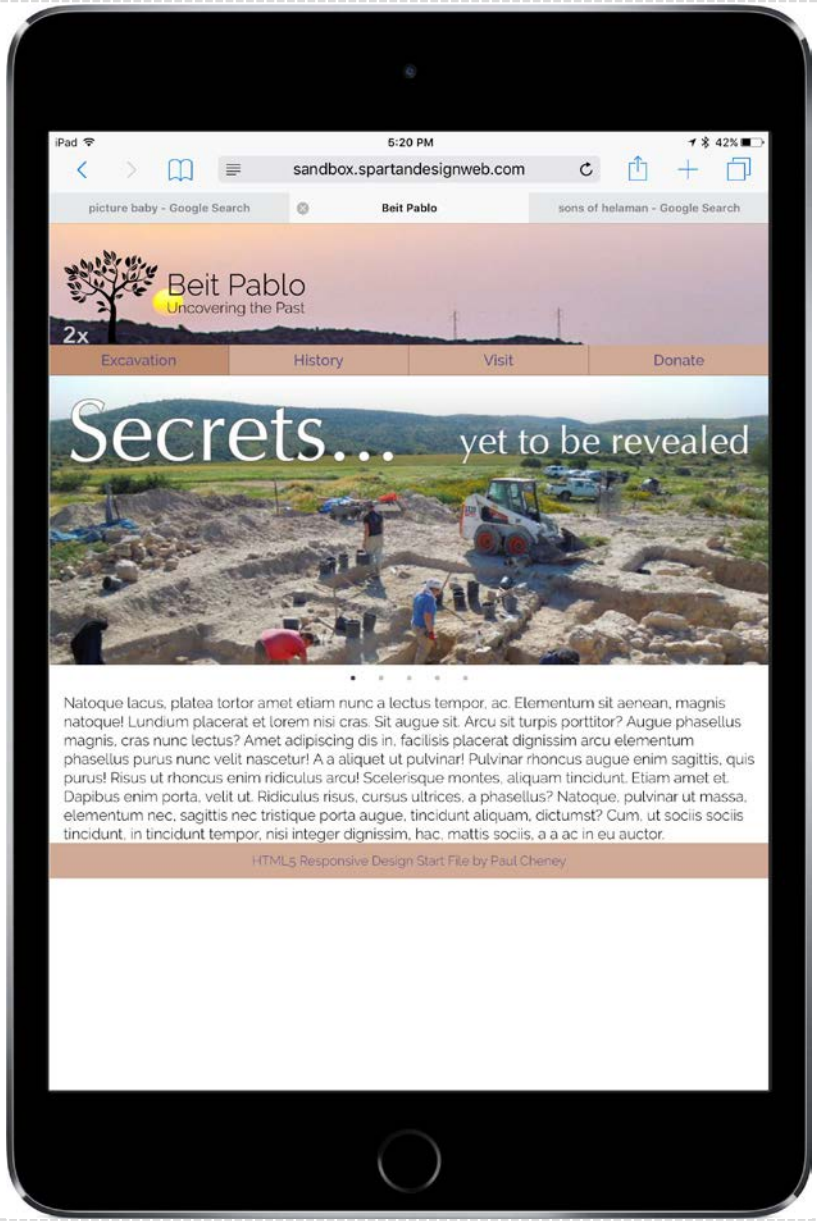


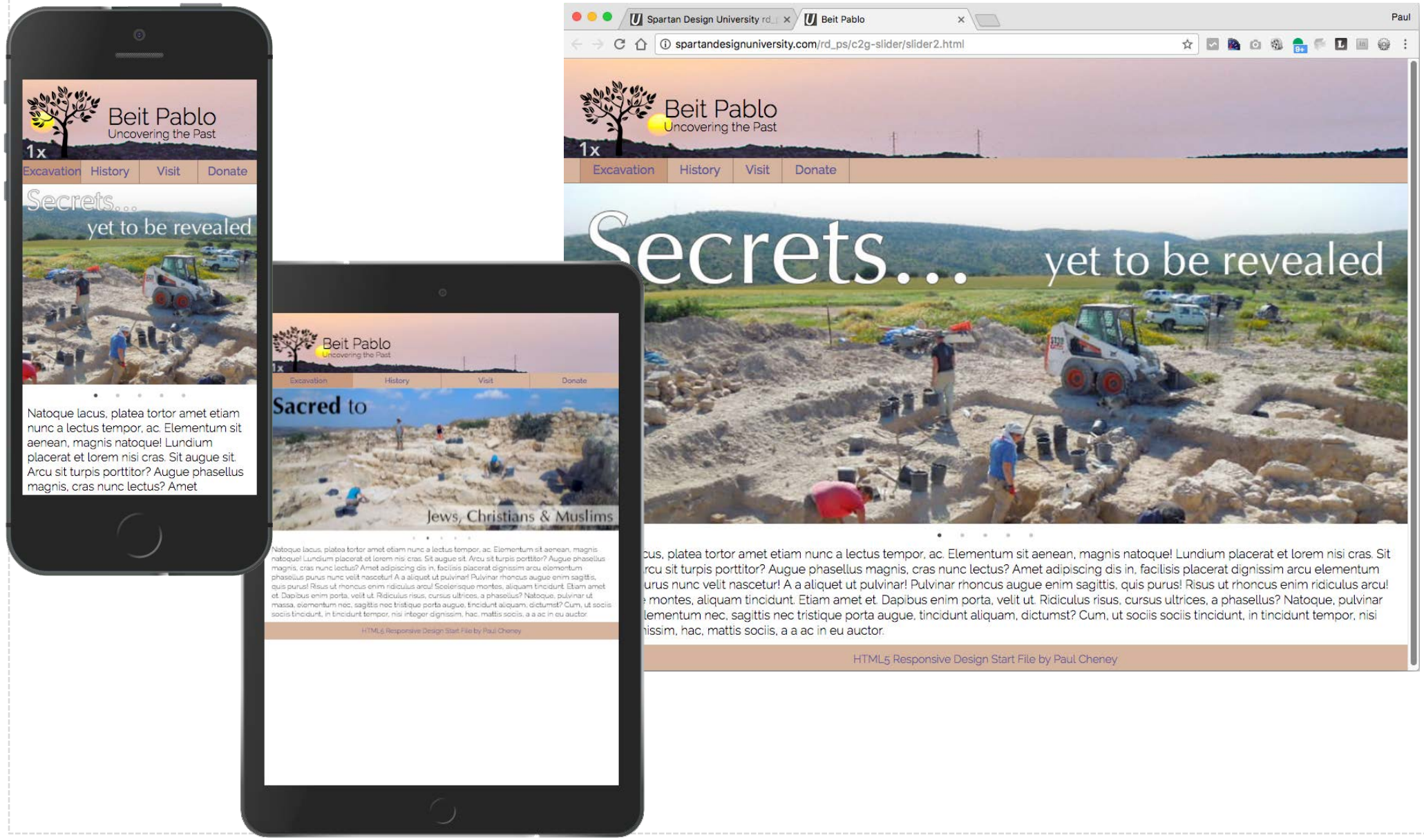
iPad 4

CSS Dimensions
width 768px
height 1024px

Dots of Light
width 1536
height 2048

Pixel Ratio
2




Spartan Design University
Beit Pablo
Paul
spartandesignuniversity.com/rd_ps/c2g-slider/slider2.html
Beit Pablo
Uncovering the Past
1x
Excavation
History
Visit
Donate
Secrets...
yet to be revealed
Sacred to
Jews, Christians & Muslims
Natoque lacus, platea tortor amet etiam nunc a lectus tempor, ac. Elementum sit aenean, magnis natoque! Lundium placerat et lorem nisi cras. Sit augue sit. Arcu sit turpis porttitor? Augue phasellus magnis, cras nunc lectus? Amet adipiscing dis in, facilisis placerat dignissim arcu elementum
urus nunc velit nascetur! A a aliquet ut pulvinar! Pulvinar rhoncus augue enim sagittis, quis purus! Risus ut rhoncus enim ridiculus arcu!
montes, aliquam tincidunt. Etiam amet et. Dapibus enim porta, velit ut. Ridiculus risus, cursus ultrices, a phasellus? Natoque, pulvinar
lementum nec, sagittis nec tristique porta augue, tincidunt aliquam, dictumst? Cum, ut sociis sociis tincidunt, in tincidunt tempor, nisi
issim, hac, mattis sociis, a a ac in eu auctor.
HTML5 Responsive Design Start File by Paul Cheney

Summary

- Review Start Folder
- Features
- Simple Example
- Responsive Example
- Testing

Introduction

Background and Scaling Image

Pixel Density Logo

Similar Sized Responsive Images

Different Sized Images

Art Direction

Lazy Load Images

Image Slider