



WEEK 4

Learn how to pick and evaluate a slider and then implement an image slider design pattern (likely Nivo or Flexslider) in Project A.

Analyze page load speeds across three projects and identify opportunities for improvement.

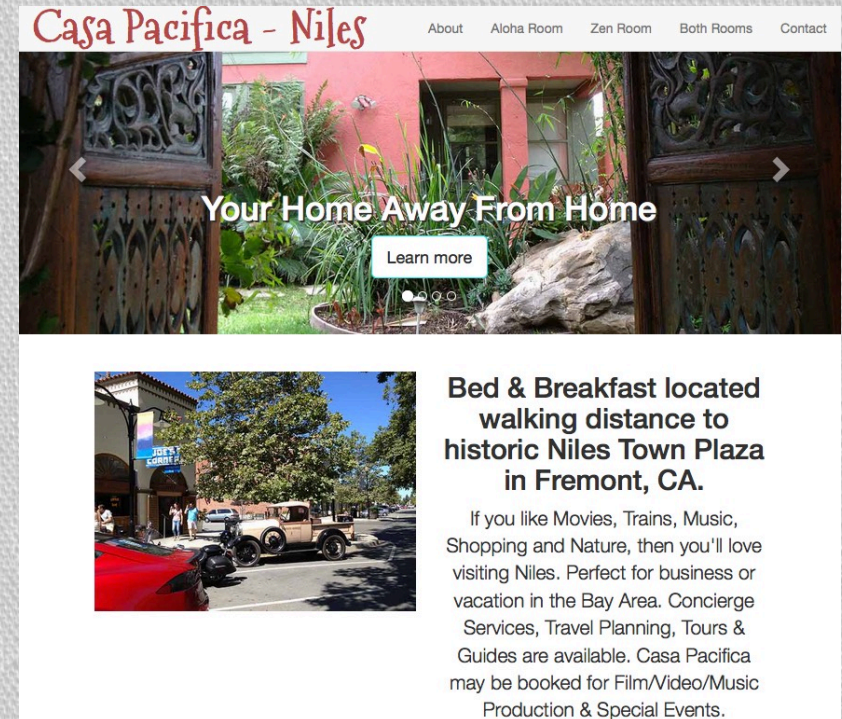
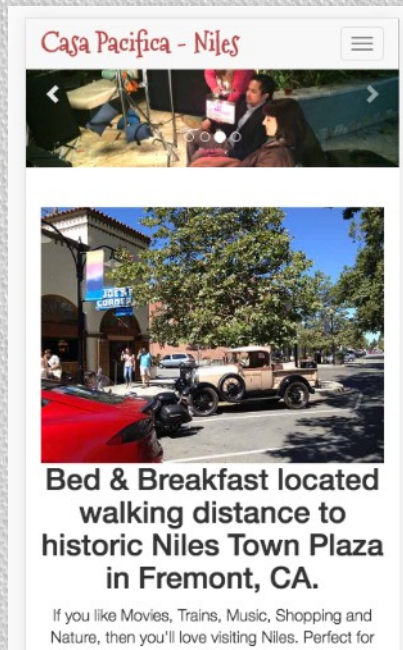
Discuss the value of minifying code and optimizing images for multiple displays.

Discuss how this affects page ranking.

Discuss CDN vs local copy of libraries.

Carousels and Sliders

- See example sites
 - casapacificaniles.com
 - www.siggraph.org
- Can you identify the plugin?
- Is the slider valuable on mobile?
- Does the CTA overflow?



Sliders

- It needs to be responsive!
- Easier if you start with good images
 - Challenge: finding the right content to fit
 - 1920px wide or 1440px but don't give up all your page to tall images
- Most popular Nivo and Flexslider 2 and now Slider Revolution 5(WP)
- <http://www.jqueryscript.net/slider/nivo-slider.html>

Flexslider in Project A

- <http://flexslider.woothemes.com/>
 - Download and explore
- Add images, css and js and check paths
- Advanced: consider customizations
 - <https://github.com/woothemes/FlexSlider/wiki/FlexSlider-Properties>

Woo THEMES

FlexSlider 2

The best responsive slider. Period.

DOWNLOAD FLEXSLIDER

```
<title>Dinner in Kobe</title>
<link rel='stylesheet' href='basic1.css' type='text/css' media='all' >
<link rel="stylesheet" href="flexslider.css" type="text/css" media="screen" >
```

```
<div class="flexslider">
  <ul class="slides">
    <li>
      
    </li>
    <li>
      
    </li>
    <li>
      
    </li>
  </ul>
</div>
```

```
<!-- jQuery -->
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1/jquery.min.js"></script>
<script>window.jQuery || document.write('<script
src="js/libs/jquery-1.7.min.js">\x3C/script>')</script>

<!-- FlexSlider -->
<script defer src="jquery.flexslider.js"></script>
<script>
function myFunction() {
  document.getElementsByClassName("topnav")[0].classList.toggle("responsive");
}
// Can also be used with $(document).ready()
$(window).load(function() {
  $(''.flexslider').flexslider({
    animation: "slide"
  });
});
</script>
```

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Nivo Slider Exercise

```
<!-- jQuery -->
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1/jquery.min.js"></script>
<script src="nivo-slider/jquery.nivo.slider.js"></script>
<script>
function myFunction() {
    document.getElementsByClassName("topnav")[0].classList.toggle("responsive");
}

$(window).load(function() {
    $('#slider').nivoSlider();
});

$(window).load(function() {
    $('#slider').nivoSlider({
        effect: 'random',
        slices: 15,
        boxCols: 8,
        boxRows: 4,
        animSpeed: 500,
        pauseTime: 3000,
        startSlide: 0,
        directionNav: true,
        controlNav: true,
        controlNavThumbs: false,
        pauseOnHover: true,
        manualAdvance: false,
        prevText: 'Prev',
        nextText: 'Next',
        randomStart: false,
        beforeChange: function() {},
        afterChange: function() {},
        slideshowEnd: function() {},
        lastSlide: function() {},
        afterLoad: function() {}
    });
});
</script>
```

- Use a copy of Project A
- Download Nivo Slider and try it

```
<div class="slider-wrapper theme-default">
<div id="slider" class="nivoSlider">
    
    
    
</div>
</div>
```

- <http://www.jqueryscript.net/slider/nivo-slider.html>
- Beware html4 code

Customizing Flexslider

CSS

- I like the dots inside the image
- Customize dots and chevrons
- Padding on slider, etc
- Tune in the vertical spacing

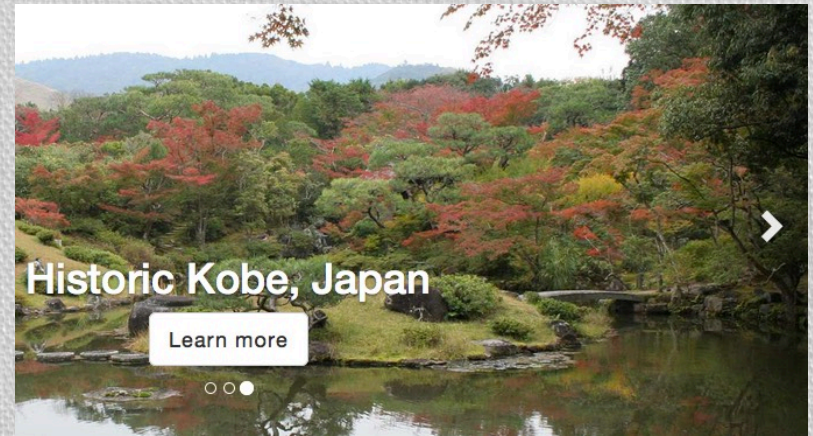
Javascript

- Change animations, support mobile swipe and other options
- Start in the Wiki
- <https://github.com/woothemes/FlexSlider/wiki/FlexSlider-Properties>



Add Bootstrap Carousel

- #1 – Have images the same size.
 - Watch the height! Not too big.
- Make a copy of Bootstrap project and add it to Week 4
- Add carousel code
- Chevrons are glyphs
- Using jQuery
 - Already attached
 - Adds .active for css on carousel-indicators

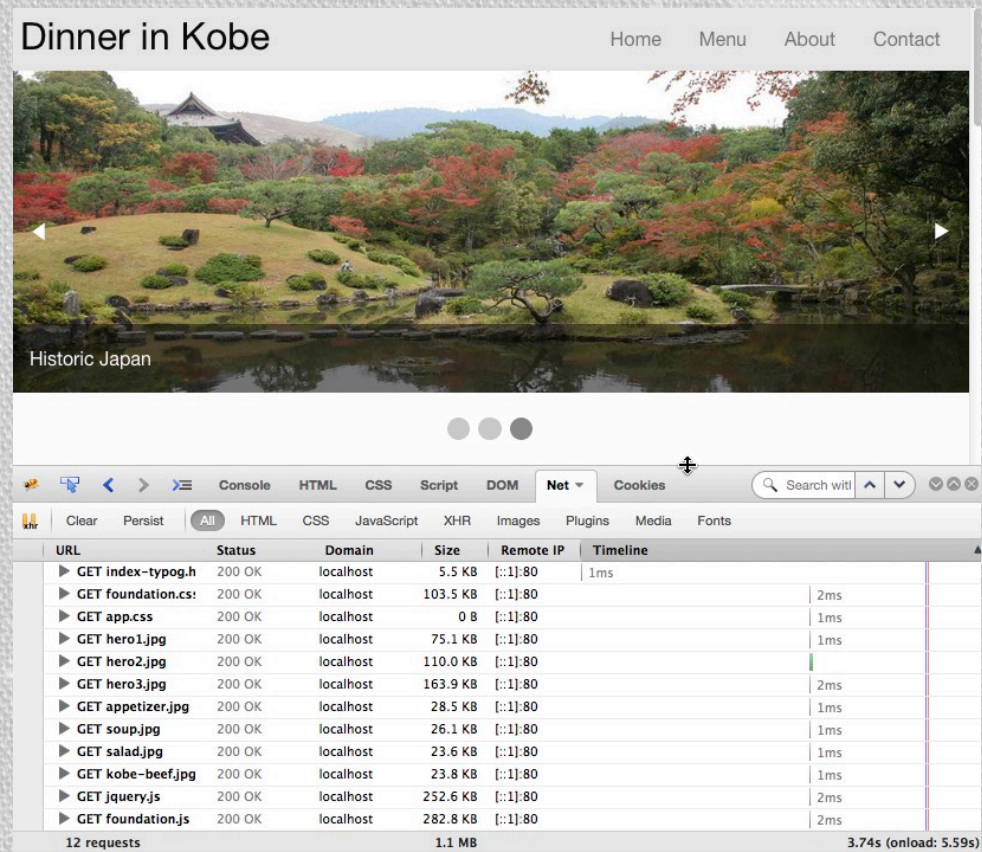


```
<div id="myCarousel" class="carousel slide" data-ride="carousel">
  <!-- Indicators -->
  <ol class="carousel-indicators">
    <li data-target="#myCarousel" data-slide-to="0" class="active"></li>
    <li data-target="#myCarousel" data-slide-to="1"></li>
    <li data-target="#myCarousel" data-slide-to="2"></li>
  </ol>
  <div class="carousel-inner" role="listbox">

    <div class="item active">
      
      <div class="container">
        <div class="carousel-caption">
          <h1>Elegant Dinner</h1>
          <p><a class="btn btn-lg btn-default" href="#our-home" role="button">Reservations</a></p>
        </div>
      </div>
    </div>
    <div class="item"> ... </div>
    <div class="item"> ... </div>
  </div>
  <a class="left carousel-control" href="#myCarousel" role="button" data-slide="prev">
    <span class="glyphicon glyphicon-chevron-left" aria-hidden="true"></span>
    <span class="sr-only">Previous</span>
  </a>
  <a class="right carousel-control" href="#myCarousel" role="button" data-slide="next">
    <span class="glyphicon glyphicon-chevron-right" aria-hidden="true"></span>
    <span class="sr-only">Next</span>
  </a>
</div><!-- /.carousel -->
```


Page Load Comparison

- Measure and compare each version of image slider
 - Use Firebug Net Panel
- Discuss ways to optimize



The screenshot shows a web browser displaying a page titled "Dinner in Kobe". The page features a large image slider showing a scenic view of a Japanese garden. Below the slider, the Firebug Net Panel is open, displaying a list of 12 requests. The requests include various assets like CSS, JavaScript, and images, all loaded from localhost. The total page load time is 3.74s, with an onload time of 5.59s.

URL	Status	Domain	Size	Remote IP	Timeline
▶ GET index--typog.h	200 OK	localhost	5.5 KB	:::1:80	1ms
▶ GET foundation.cs:	200 OK	localhost	103.5 KB	:::1:80	2ms
▶ GET app.css	200 OK	localhost	0 B	:::1:80	1ms
▶ GET hero1.jpg	200 OK	localhost	75.1 KB	:::1:80	1ms
▶ GET hero2.jpg	200 OK	localhost	110.0 KB	:::1:80	1ms
▶ GET hero3.jpg	200 OK	localhost	163.9 KB	:::1:80	2ms
▶ GET appetizer.jpg	200 OK	localhost	28.5 KB	:::1:80	1ms
▶ GET soup.jpg	200 OK	localhost	26.1 KB	:::1:80	1ms
▶ GET salad.jpg	200 OK	localhost	23.6 KB	:::1:80	1ms
▶ GET kobe--beef.jpg	200 OK	localhost	23.8 KB	:::1:80	1ms
▶ GET jquery.js	200 OK	localhost	252.6 KB	:::1:80	2ms
▶ GET foundation.js	200 OK	localhost	282.8 KB	:::1:80	2ms
12 requests			1.1 MB		3.74s (onload: 5.59s)

Comparison to other Frameworks

- Foundation
- Material Design
- SemanticUI

Assignment

- Finish and fine tune each of these designs
- Explore and **document** the pros and cons of each
- Read Week 5 and review the links in JavaScript Fundamentals
 - Be ready for JavaScript customizations
- Take JavaScript Quiz in Portal
 - Refresh your skills if you are rusty
 - Comical but a good overview of JavaScript
 - <http://try.jquery.com>