

WEEK 5

Learn to implement jQuery widgets/effects such as date pickers, progress bars, accordions, easing, etc by adding them to a project.

Explore the market of non-jQuery libraries that do the same functions.

Understand the page load cost and legacy support associated to these other libraries.

Learn important evaluation processes and debug tools.

JavaScript Fundamentals Review

- Variables
- Function calls
- Passing parameters
- Associative Arrays
 - Key: Value pairs
- Traversing the DOM
- Attaching library to your html
- jQuery Namespace

```
//script>
$( "#accordion" ).accordion({active:false,collapsible:true});
//I like them all to be closed on load so I use these options

//script>

JavaScript JavaScript Passing
Selector Method Key:value
```

Exercise- jQueryUI

- Experiment with different widgets
 - http://jqueryui.com/
- Include the jquery UI code
- Include the function call
- Tie it to the HTML by the id
- Always beware of versioning and multiple calls to jquery
- Build it first as a unit test then incorporate it into your project
 - http://jqueryui.com/download/
- Advanced explore the size of the different download choices
 - Do you need it all?
 - What is the size difference?

jQuery UI Unit Test This is a unit test of the jQuery accordion widget demonstrating the call to the css and js files and the funtion call. Accordion ▶ Breakfast ▶ Lunch

```
<!doctype html>
<html lang="us">
    <meta charset="utf-8">
    <title>jQuery UI Example Page</title>
    <link href="jquery-ui-1.11.4.custom/jquery-ui.css" rel="stylesheet">
    <style>
    body{
        font: 62.5% "Trebuchet MS", sans-serif;
        margin: 50px;
    </style>
</head>
<body>
<h1>jQuery UI Unit Test</h1>
<div class="ui-widget">
    This is a unit test of the jQuery accordion widget demonstrating the call to the
css and js files and the funtion call.
</div>
<!-- Accordion -->
<h2 class="demoHeaders">Accordion</h2>
<div id="accordion">
    <h3>Breakfast</h3>
    <div>Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet. Lorem ipsum dolor sit
    <h3>Lunch</h3>
    <div>Phasellus mattis tincidunt nibh.</div>
    <h3>Dinner</h3>
    <div>Nam dui erat, auctor a, dignissim quis.</div>
<script src="jquery-ui-1.11.4.custom/external/jquery/jquery.js"></script>
<script src="jquery-ui-1.11.4.custom/jquery-ui.js"></script>
 $( "#accordion" ).accordion({active:false,collapsible:true});
 //I like them all to be closed on load so I use these options
</script>
</body>
</html>
```

Lots of great plugins for Bootstrap

- http://bootstrapious.com/p/list-of-the-best-bootstrap-plugins-in-2016?utm_medium=social&utm_source=plus.google.com&utm_campaign=bootstrap30k
- Group exercise, explore plugins

Scrollspy – Single Page Sites

- Identify the active menu item on a single page site
 - Simplest description here
 - http://www.w3schools.com/bootstrap/tryit.asp
 ?filename=trybs_scrollspy2&stacked=h
- And another list of jQuery patterns

http://www.jqueryscript.net/tags.php?/

Scroll

• Try it and customize it

Section 1

Section 2

Section 3

Section 4 -

Soup



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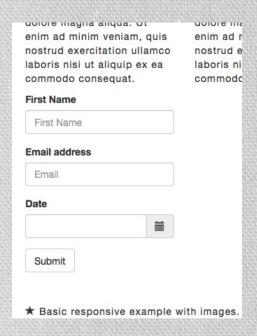
My Scrollspy Customization

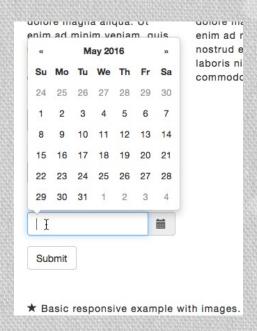
- They always need a little adjustment
- Make it your own
- Started with W3Schools example
- Beware of using height!
- Note this pulls from cdn
- Note my image width challenge
 - Size your images appropriately.

```
<html lang="en">
  <title>Scrollspy Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  k rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min.css">
src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.2/jquery.min.js"></script>
src="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js"></script>
  <style>
 body {
      position: relative;
      font-size: 16px;
  ul.nav-pills {
      top: 20px;
      position: fixed;
  div.col-sm-9 div {
     /*Never set a height in css
      height: 250px;
      font-size: 28px; */
      -moz-box-shadow: 3px 3px 4px #eee;
      -webkit-box-shadow: 3px 3px 4px #eee;
      box-shadow: 3px 3px 4px #eee;
      -ms-filter: "progid:DXImageTransform.Microsoft.Shadow(Strength=4, Direction=135,
Color='#eee')";
      filter: progid:DXImageTransform.Microsoft.Shadow(Strength=4, Direction=135,
Color='#eee');
      border: 1px solid #ccc;
      -webkit-border-radius: 6px;
      -moz-border-radius: 6px;
      border-radius: 6px;
      margin-bottom: 10px;
  div.col-sm-9 div p {
  /*accommodates my images*/
    max-width: 500px;
   margin: 2em auto;
    padding: 0 5px 0 5px;
  @media screen and (max-width: 810px) {
   #section1, #section2, #section3, #section41, #section42 {
        margin-left: 150px:
  </style>
```

Bootstrap Date Picker Widget

- Bootstrap does not have a native Date Picker
- Libraries Available
 - cdnjs.cloudflare.com for this example
- Tutorial
 - http://formvalidation.io/examples/bootstrap-datepicker/





Date Picker cont'd

```
<div class="col-xs-12 col-sm-3">
<form id="eventForm" action="" method="POST">
  <div class="form-group">
   <label for="firstName">First Name</label>
   <input type="text" class="form-control" id="firstName" name="firstName" placeholder="First Name">
   </div>
   <div class="form-group">
   <label for="exampleInputEmail1">Email address</label>
   <input type="email" class="form-control" id="exampleInputEmail1" placeholder="Email">
 </div>
   <div class="form-group">
        <label for="datePicker">Date</label>
           <div class="input-group input-append date" id="datePicker">
                <input type="text" class="form-control" name="date" >
                <span class="input-group-addon add-on"><span class="glyphicon glyphicon-calendar"></span></span>
        </div>
   </div>
<div class="form-group">
 <button type="submit" class="btn btn-default">Submit</button>
  </div>
</form>
```

```
<!ink rel="stylesheet" href="//cdnjs.cloudflare.com/ajax/libs/bootstrap-datepicker/1.3.0/css/datepicker.min.css" >
<!cript src="//cdnjs.cloudflare.com/ajax/libs/bootstrap-datepicker/1.3.0/css/datepicker3.min.css" >
<!cript src="//cdnjs.cloudflare.com/ajax/libs/bootstrap-datepicker/1.3.0/js/bootstrap-datepicker.min.js"></script>
<!cript src="//cdnjs.cloudflare.com/ajax/libs/bootstrap-datepicker/1.3.0/js/bootstrap-datepicker.min.js"></script>
<!cript src="//cdnjs.cloudflare.com/ajax/libs/bootstrap-datepicker/1.3.0/js/bootstrap-datepicker.min.js"></script>

! con in src="//cdnjs.cloudflare.com/ajax/libs/bootstrap-datepicker/1.3.0/js/bootstrap-datepicker.min.js"></script>

! con in src="//cdnjs.cloudflare.com/ajax/libs/bootstrap-datepicker/1.3.0/css/datepicker.min.css" >

! coript src="//cdnjs.cloudflare.com/ajax/libs/bootstrap-datepicker/1.3.0/css/datepicker.min.css" >

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```

FYI only - Compare Foundation 6 Plugins

- Foundation includes a set of plugins
 - Form validation
 - http://foundation.zurb.com/sites/docs/abide.html
 - Column alignment
 - CSS helper
 - Sticky header and footer
- And a set of libraries
 - Motion UI
 - http://foundation.zurb.com/sites/docs/motion-ui.html
 - Panini*
 - Style Sherpa*

^{*} Templating tools used with compiled CSS

Assignment

- Finish up the classwork
- Read ahead on Material Design
 - http://materializecss.com/about.html
- And Material Design Light, some nice layouts in this
 - https://medium.com/google-developers/introducing-material-design-lite-3ce67098c031#.x7p4yk4hr
- Surf the web for usage data on jQueryMobile
 - This is an experiment, let's see if your data matches mine...