A quick cheat sheet to explain what clients really mean when providing feedback.

STUFF CLIENTS SAY

WHAT CLIENTS MEAN

"Make it look more luxurious..."

WIDE, THIN
FONTS IN CAPS
WITH A WHOLE LOT
OF LETTER
SPACING

"It's not popping for me..."

Brighter,
Bolder Crap!

"This logo just looks like a font..."

add.random

"I'll know what I want when I see it."

= They won't.

CS1517: Web Technology

Using jQuery and Bootstrap



Last Week

- Javascript
 - Arrays, form validation, DOM
 - AJAX (XMLHttpRequest)
 - jQuery
 - \$(selector).action()
 - Selectors
 - Element, attribute, CSS
 - Event handlers
 - Callback functions
 - AJAX, HTML manipulation



With jQuery, look at the following selector: \$("div.intro"). What does it select?

- A. The first div element with id="intro"
- B. All div elements with class="intro"
- C. The first div element with class="intro"
- D. All div elements with id="intro"



What we'll cover

- jQuery effects.
 - Sliding, fading, toggle
- Bootstrap Components



Some Effects...

- .animate() perform a custom animation
- .fadeIn() Display the matched elements by fading them
- .fadeOut() Hide the matched elements by fading
- .hide() Hide the matched elements
- .show() Display the matched elements
- .slideDown() show the matched elements in a sliding motion
- .slideUp() Hide the matched elements in a sliding motion
- .toggle() Display or hide matched elements



.slideDown() & .slideUp()

slideDown() method animates the height of the matched elements.
 This causes the lower parts of the page to slide down, making way for revealed elements. .slideUp() has the opposite effect.



here

Making it a bit more complicated...

```
$('#clickme').click(function() {
    if($('#hiddenDiv').is(':hidden')) {
         $('#hiddenDiv').slideDown('slow');
     } else {
         $('#hiddenDiv').slideUp('slow');
});
   Click here
                                         Click here
               Click here
                            Click here
                                         Animation complete
```



Fade In and Out

```
<style type="text/css">
#hiddenDiv {
    display:none;
}
</style>
<div id="clickme">
    Click here!
</div>
<div id="hiddenDiv">
    Some text here
</div></div>
```

```
$('#clickme').click(function() {
   $('#hiddenDiv').fadeIn(300);
});
```

```
Click here

Click here

Click here

Click here

Click here
```



.toggle()

- Has two uses:
 - Making an element visible or invisible immediately with no animation.
 - Making an element visible or invisible by simultaneously increasing/decreasing its width, height and opacity (transparency).
- If an element has a CSS of display:none; (i.e. invisible), it will be automatically be changed to display:inline; (i.e. visible).



.toggle() Use 1 \$('target').toggle();

```
<html><head>
 <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.0/jquery.min.js"
></script>
</head>
<body>
   <a href="#" id="button">Toggle</a>
   Hello
   Good Bye
   <script>
      $("#button").click(function () {
          $("p").toggle();
      });
   </script>
</body></html>
```



.toggle() Use 2

```
$('target').toggle([duration],[callback]);
```



Question

Which of these effects will not display an element(s):

- 1. show()
- 2. slideDown()
- 3. fadeOut()
- 4. makeVisible()



jQuery Events

- .click()
- .focus()
- .hover()
- .keydown()
- .keypress()
- .keyup()
- .mouseenter()
- .mouseleave()
- .mouseover()
- .select()
- .scroll()
- .submit()

...and more!



Bootstrap Components and JavaScript

- A component library built on top of Bootstrap and jQuery
- Designed for highly interactive applications
- Various widgets, effects that are easy to use
- http://getbootstrap.com/components/
- http://getbootstrap.com/javascript/
- Must import bootstrap.min.js or relevant plugin js



Modal box

- Overlays HTML element over a website
- Avoid use of pop-ups
- Show additional information without leaving the page
- Improves usability of site
- Common uses
 - Errors, warnings, collect data, confirm/prompt, help



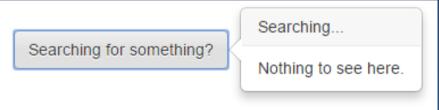
```
<a href="#" data-toggle="modal" data-target="#catModal">Show me some kittens!</a>
<!-- Modal -->
<div class="modal fade" id="catModal" tabindex="-1" role="dialog" aria-labelledby="catModalLabel">
<div class="modal-dialog" role="document">
 <div class="modal-content">
  <div class="modal-header">
    <button type="button" class="close" data-dismiss="modal" aria-label="Close"><span aria-</pre>
hidden="true">&times:</span></button>
    <h4 class="modal-title"id="catModalLabel">Cats!!!!</h4>
  </div>
  <div class="modal-body">
    <img src="http://thecatapi.com/api/images/get?format=src&type=gif&size=medium" alt="Kittens!!!">
  </div>
  <div class="modal-footer">
    <button type="button" class="btn btn-default" data-dismiss="modal">Close</button>
  </div>
  </div> </div>
```



Popover

- Displays HTML to user without loosing their place on the page
- Common uses

```
$(function () {
   $('#popbutton').popover()
})
```





Alert

- Display a small message alerting the user to something
 - Danger or error
 - Success submitting form
 - Information "We use cookies"







Tabs

- Act as dividers for content just like tab dividers in real life
- Improve content organisation
 - Combined with AJAX
- Often used for navigation
- Inspiration see http://tympanus.net/Development/TabStylesInspiration/



```
<a href="#home" aria-</pre>
controls="home" role="tab" data-toggle="tab">Home</a>
   <a href="#profile" aria-</pre>
controls="profile" role="tab" data-toggle="tab">Profile</a>
   role="presentation"><a href="#messages" aria-</pre>
controls="messages" role="tab" data-toggle="tab">Messages</a>
   role="presentation"><a href="#settings" aria-</pre>
controls="settings" role="tab" data-toggle="tab">Settings</a>
<!-- Tab panes -->
 <div class="tab-content">
   <div role="tabpanel" class="tab-pane active" id="home">...</div>
   <div role="tabpanel" class="tab-pane" id="profile">...</div>
   <div role="tabpanel" class="tab-pane" id="messages">...</div>
   <div role="tabpanel" class="tab-pane" id="settings">...</div>
 </div>
```

Settings



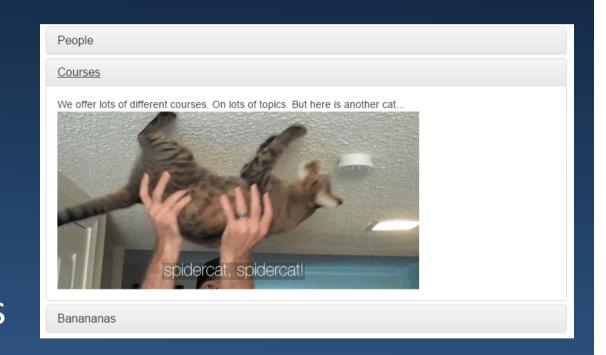
Profile Messages

Home

.

Accordion

- Created using the collapse plugin and panel component
- Expanding menus, widgets, content areas, image galleries



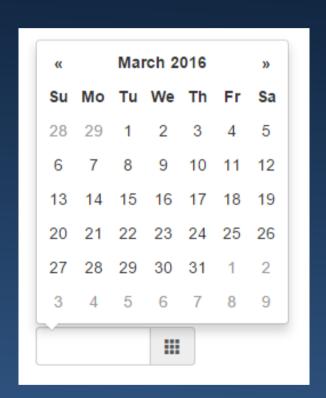


```
<div class="panel-group" id="accordion" role="tablist" aria-</pre>
multiselectable="true">
<div class="panel panel-default">
    <div class="panel-heading" role="tab" id="headingOne">
      <h4 class="panel-title">
        <a role="button" data-toggle="collapse" data-parent="#accordion"</pre>
href="#collapseOne" aria-expanded="true" aria-controls="collapseOne">
          Courses
        </a>
      </h4>
    </div>
    <div id="collapseOne" class="panel-collapse collapse in" role="tabpanel"</pre>
aria-labelledby="headingOne">
      <div class="panel-body">
        We have lots of courses on offer...
      </div>
    </div>
  </div> ... </div>
```



Date Picker

- When asking users to fill in a date (for example, date of birth), it can cause problems if they are entering raw text.
 - Datepickers avoid that problem.
 - Standardises the input.
- Bootstrap-datepicker plugin
- http://bootstrapdatepicker.readthedocs.org/en/latest/





```
<link href="http://eternicode.github.io/bootstrap-datepicker/bootstrap-</pre>
datepicker/css/datepicker3.css" rel="stylesheet">
<div class="input-group date" id="datePicker">
   <input type="text" class="form-control"><span class="input-group-addon"><i</pre>
class="glyphicon glyphicon-th"></i></span>
  </div>
<script src="http://eternicode.github.io/bootstrap-datepicker/bootstrap-</pre>
datepicker/js/bootstrap-datepicker.js"></script>
$('#datePicker').datepicker();
```



Autocomplete

```
var cities = ["Aberdeen", "Dundee", "Edinburgh", "Glasgow",
"Inverness", "Perth", "Stirling"];
// constructs the suggestion engine
var bloodhound = new Bloodhound({
 datumTokenizer: Bloodhound.tokenizers.whitespace,
 queryTokenizer: Bloodhound.tokenizers.whitespace,
 // `cities` is an array of City names
 local: cities
});
$('#suggestions .typeahead').typeahead({
  hint: true, highlight: true, minLength: 1
  name: 'cities', source: bloodhound
```

Typeahead.js Bootstrap plugin https://twitter.github.io/typeahead.js/



What we have covered

- jQuery effects.
 - Sliding, toggle, fading, ...
- Bootstap Components and Javascript
- Next lecture
 - PHP
- Practical
 - Javascrip forms, jQuery DOM and AJAX



References

- http://api.jquery.com/
- http://api.jquery.com/category/events/
- http://getbootstrap.com/components/
- http://getbootstrap.com/javascript/
- http://bootstrapdatepicker.readthedocs.org/en/latest/
- https://twitter.github.io/typeahead.js/

