WEEKLY OVERVIEW

WEEK 5 jQuery / JS Lab

WEEK 6 Interactions / Functions

JS BASICS

LEARNING OBJECTIVES

- Practice listening for and responding to events such as scroll, submit, keyup, and mouseenter.
- Use the val() method to get and set information for form fields.
- Practice using jQuery methods and events, JavaScript control flow, and variables by building out a Mad Libs game.

AGENDA

Review

jQuery Events

Working with User Input

Mad Libs Lab

JS LAB

REVIEW

JQUERY — **REVIEW**



KEY OBJECTIVE

Review jQuery selectors, methods and events

TYPE OF EXERCISE

▶ Groups of 2 - 3

STEPS

8 min

- 1. In the start files, review select_fun > js > main.js.
- 2. With your HTML and JS files open, chat through each part of the lab and describe what is happening, in human terms.
- 3. Have one person in the group jot down 1 2 questions

USING JQUERY TO MANIPULATE THE DOM

Select an element/elements

Work with those elements

JQUERY — **SELECTING ELEMENTS**

\$('li').addClass('selected');

jQuery Function:

- Lets us find one or more elements in the page
- Creates a jQuery object which holds references to those elements
- ▶ We'll be using the shorthand in this class: \$()
- ▶ \$(selector) is the same as jQuery(selector)

USING JQUERY TO MANIPULATE THE DOM

Select an element/elements

Work with those elements

JQUERY — WORKING WITH THOSE ELEMENTS

Parameter(s)

Method

- ▶ These methods to find/select elements to work with & traverse the DOM
- ▶ Think of these as filters, or part of the selection process.
- ▶ They must come *directly after another selection*

METHODS	EXAMPLES
.find() finds all descendants	\$('h1').find('a');
.parent()	\$('#box1').parent();
.siblings()	<pre>\$('p').siblings('.important');</pre>
.children()	<pre>\$('ul').children('li');</pre>

What goes in the parentheses?
A css-style selector

JQUERY METHODS — **GETTING/SETTING CONTENT**

Get/change content of elements and attributes

METHODS	EXAMPLES
.html()	<pre>\$('h1').html('Content to insert goes here');</pre>
.attr()	<pre>\$('img').attr('src', 'images/bike.png');</pre>
.css()	<pre>\$('#box1').css('color', 'red');</pre>
.addClass()	<pre>\$('p').addClass('success');</pre>
.removeClass()	<pre>\$('p').removeClass('my-class-here');</pre>
.toggleClass()	<pre>\$('p').toggleClass('special');</pre>

What goes in the parentheses? The **html**, **styles**, **classes** you want to change.

ADD CLASS

REMEMBER — NO PERIOD!!

\$('h1').addClass('fun')

JQUERY METHODS — EFFECTS/ANIMATION

ADD EFFECTS/ ANIMATION

Add effects and animation to parts of the page

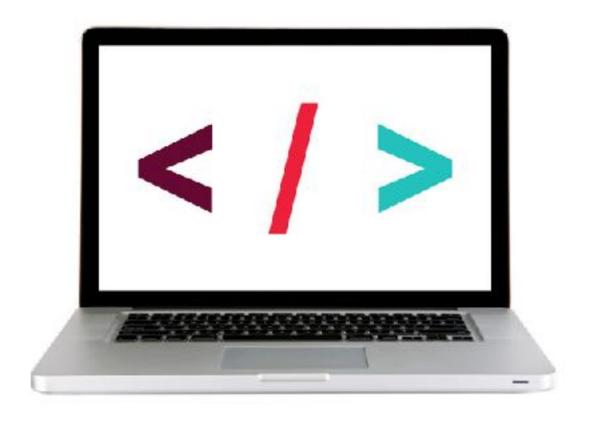
METHODS	EXAMPLES
.show()	\$('h1').show();
.hide()	\$('ul').hide();
.fadeIn()	\$('h1').fadeIn(300);
.fadeOut()	<pre>\$('.special').fadeOut('fast');</pre>
.slideUp()	<pre>\$('div').slideUp();</pre>
.slideDown()	<pre>\$('#box1').slideDown('slow');</pre>
.slideToggle(), .fadeToggle()	<pre>\$('p').slideToggle(300);</pre>

What goes in the parenthesis?
An animation speed

JQUERY

METHOD CHAINING

ACTIVITY — **METHOD CHAINING**



METHOD CHAINING!!!

\$()

.slideUp()

'li'

'slow'

```
$('li')
```

.slideUp('slow')

```
$('li').slideUp('slow');
```

```
$()
```

.addClass()

'li'

'.complete'

'complete'

```
$('li')
```

.addClass('complete')

```
$('li').addClass('complete');
```

\$()

.html()

'li'

300

'Feed cat'

```
$('li')
```

```
.html( 'Feed cat)
```

```
$('li').html('Feed cat');
```

```
$()
```

.show()

.siblings()

'h3'

'p'

```
$('h3')
```

.show()

.siblings('p')

```
$()
```

.slideUp()

.find()

'.item'

300

'h2'

```
$('.item')
```

.slideUp(300)

.find('h2')

\$('.item') .find('h2') .slideUp(300);

\$()

.fadeOut()

.children()

'#main'

'slow'

'p'

```
$('#main')
```

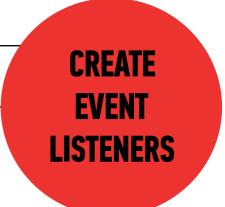
.fadeOut('slow')

.children('p')

```
$('#main').children('p').fadeOut('slow')
```

JQUERY EVENTS PART II

JQUERY METHODS — EVENTS!



We can use the on() method to handle all events in jQuery.



```
$('li').on('click', function() {
   // your code here
});
```

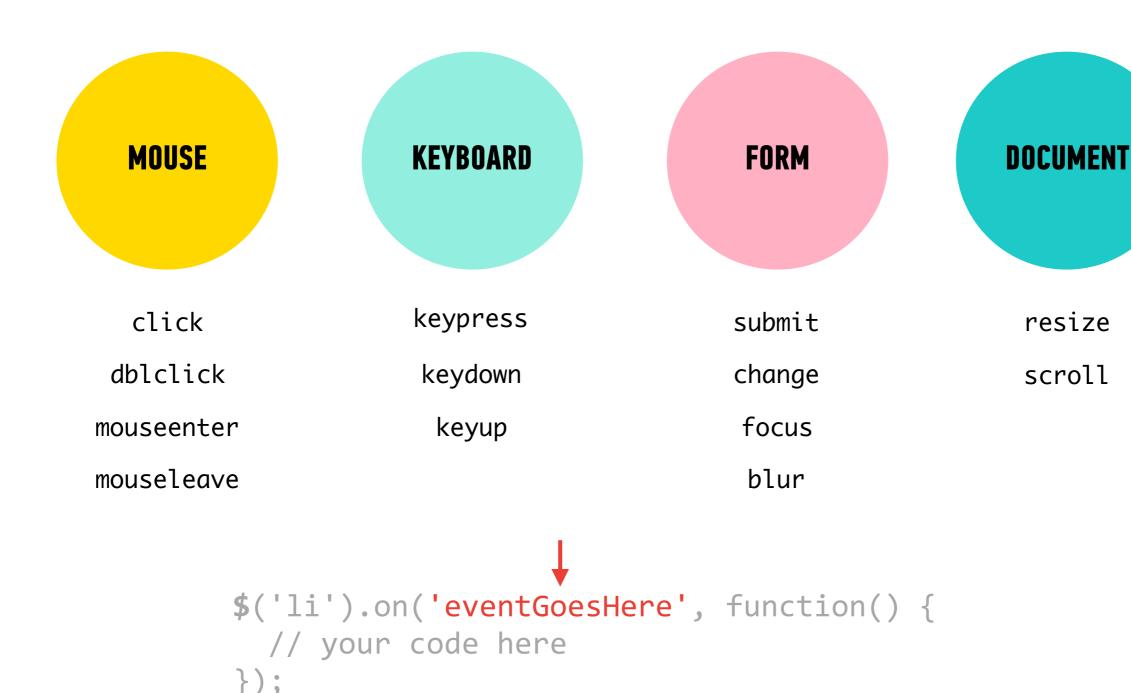


method for all events

```
$('li').on('click', function() {
  // your code here
});
```



```
$('li').on('click', function() {
   // your code here
});
```



CREATE EVENT LISTENERS

```
$('li').on('click', function() {
  // your code here
});
```

function to run when event is triggered

CREATE EVENT LISTENERS

```
selector method for all events type of event

$('li').on('click', function() {

// your code here
});
```

JQUERY — **REVIEW**



KEY OBJECTIVE

 Review jQuery selectors and events, get practice looking up new event types

TYPE OF EXERCISE

Individual/paired

SMALL GROUP PLANNING

5 min

1. Follow the instructions in Starter Code> jquery_events > js/main.js

WORKING WITH USER INPUT

JQUERY FORM EVENTS

KEYBOARD

keypress

keydown

keyup

FORM

submit

change

focus

blur

```
$('li').on('eventGoesHere', function() {
  // your code here
});
```

SUBMIT EVENT

```
$('form').on('submit', function(event) {
   event.preventDefault();
   // your code here
});
```

JOUERY METHODS — THE EVENT OBJECT

- ▶ The event object has properties and methods that tell you more about the event that took place.
- ▶ By using the preventDefault() method, the default action of the event will not be triggered.

```
$('a').on('click', function(event) {
  event.preventDefault();
});
```

Use that name in the function and use dot notation to access its properties and methods.

WHEN TO PREVENT THE DEFAULT ACTION

▶ So when do I need to prevent the default action?

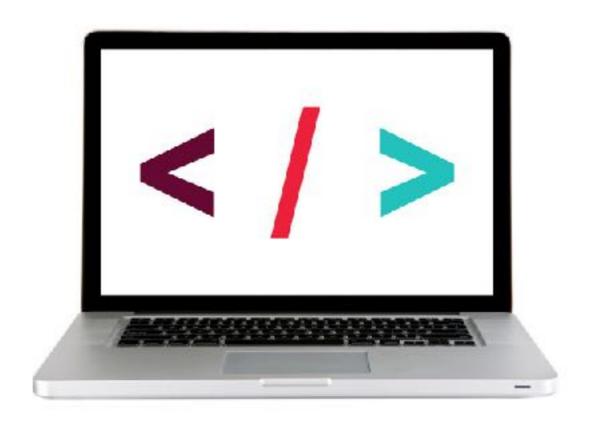
1. WHEN THE SELECTOR FOR OUR EVENT IS AN ANCHOR:

```
$('a').on('click', function(event) {
  event.preventDefault();
});
```

2. WHEN THE TYPE OF EVENT IS A SUBMIT EVENT:

```
$('form').on('submit', function(event) {
  event.preventDefault();
});
```

LET'S TAKE A CLOSER LOOK

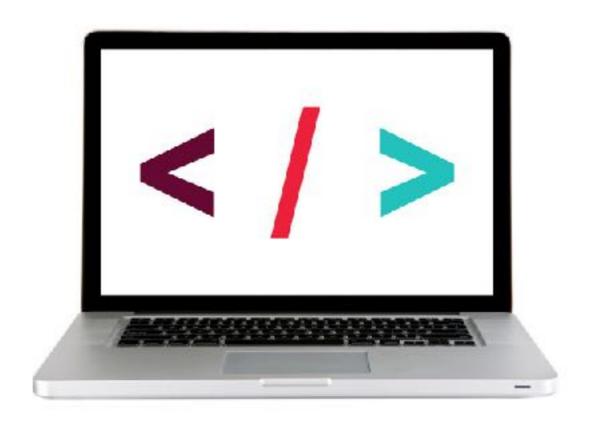


Get/change content of elements, attributes, text nodes (part 2!)

METHODS	GOAL	EXAMPLES
.val()	Get value from input	<pre>\$('input').val();</pre>
	Change value in input	<pre>\$('input').val('New Value');</pre>

What goes in the parentheses? The html or content you want to add/change

LET'S TAKE A CLOSER LOOK



LAB

MAD LIBS — PART 1



KEY OBJECTIVE

▶ Review the HTML and CSS to create forms by building the interface for the Mad Libs game.

TYPE OF EXERCISE

Individual/paired

SMALL GROUP PLANNING

15 min

1. Using the image in the starter code folder as a guide, write HTML and CSS to create the interface for the Mad Libs game.

MAD LIBS — PART 2



KEY OBJECTIVE

Practice breaking down a problem into steps using pseudo code.

TYPE OF EXERCISE

▶ Groups of 2 - 3

SMALL GROUP PLANNING

10 min

- 1. In groups of 2 3, write pseudo code for the Mad Libs game.
- 2. Together: Review the pseudo code for the application

MAD LIBS — PART 3



KEY OBJECTIVE

Practice using events, jQuery methods, and JavaScript conditionals to create a Mad Libs game.

TYPE OF EXERCISE

Individual / Partner

SMALL GROUP PLANNING

1 hour

- 1. Write JS to add functionality to the Mad Libs game.
- 2. Bonus: Clear out all form fields after user has played game.
- 3. Bonus: Validate the form every time the user lifts a key up (keyup event).
- 4. Bonus: Add a color scheme switcher to the game.

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EXIT TICKETS!