



LESSON 9

JS On Your Webpage

Review

HW3

Complete the layout in

ASSIGNMENT #1

WHAT IS JQUERY?

- jQuery is a Javascript library
- JS libraries are sets of functions that complete routine code tasks for you. Everything in jQuery is JS and you can use JS and jQuery together.
- jQuery is great for AJAX, CSS manipulations, HTML switches, and event handling

IS JQUERY DYING?

- jQuery's original reason for being was to smooth over vastly different implementations of JS in the different browsers
- While that problem has been solved, jQuery still makes DOM manipulation easier
- As you learn JS, it can be both a blessing and a curse: it has simpler syntax but can hinder your JS development.

USING JS AND JOQUERY

Include at the bottom of your BODY:

```
<script src="js/jquery.min.js"></script>
```

```
<script src="js/main.js"></script>
```

Why do we put jQuery first?

USING JQUERY FROM CDN

A CDN is special kind of website that you can link to for assets like jQuery and other JS libraries.

```
<script src="https://  
code.jquery.com/  
jquery-3.1.0.min.js"></script>
```

What is .min.js - what does that mean?

WHAT DOES IT LOOK LIKE?

Initialize

Selector

Method

```
$ ( ' #e1 ' ) . css ( ' color ' , ' red ' ) ;
```

Parameters

Close

THE JQUERY SELECTOR

- CSS selectors query HTML for certain elements
- Use the same selectors you write in CSS!

```
$('div') // select all <div>'s  
$('h2') // select all <h2>'s  
$('p a') // select all <a>'s inside of all <p>'s  
$('p, a') // select all <p>'s and <a>'s
```

The `$ (' x ')` function takes any CSS selector

TEST YOURSELF

SELECTOR TEST

What do each of these do?

`$('li')`

`$('#funny-bone')`

`$('.silly-clown')`

`$('div a.balloon-animal')`

- All list items on the page.
- The #funny-bone ID only
- All .silly-clown classes
- Anchor tags with balloon-animal class inside divs

SELECTOR CITY

Lets review some CodePens on selectors:

Classes:

<http://codepen.io/staypuftman/pen/BKOXqK>

IDs:

<http://codepen.io/staypuftman/pen/reKPNg>

.HTML

Select and replace HTML content

```
// Selects  
$('#funny-bone').html();  
  
// Put something in the parenthesis to replace  
$('#funny-bone').html('<span>content</span>');
```

.TEXT

Select and replace content inside an HTML element

```
// Selects  
$('#funny-bone').text();  
  
// Put something in the parenthesis to replace  
// But no HTML tags with this one  
$('#funny-bone').text('content');
```



Change / add CSS property to selector

```
// Makes color of element red  
$('#funny-bone').css('color', 'red');
```

```
// Multiple property  
$('#ID').css({  
    'height': '100px',  
    'width': '100px'  
});
```



If you just put the property name in as a parameter on the jQuery method, it will return the CSS value

```
// Makes color of element red  
var colorTime = $('#funny-bone').css('color');  
console.log(colorTime); // returns 'red'
```


CODEALONG

JQUERY EVENT

.CLICK()

.CLICK() W/ FUNCTION

Attach .click() to jQuery selector and you can build an event handler function right into your selector

```
// Function to be run
function somethingCool() {
    var coolBeans = $('.element').html();
    console.log(coolBeans);
}

// Executes function when #button is clicked
$('#button').click(somethingCool);
```

ANONYMOUS .CLICK()

You can build a click event with a function on the fly. I don't like this as much but it works and you'll see this A LOT.

```
// Executes function when #button is clicked
$('#button').click(function() {
    var interestingHTML = $('#element').html();
    console.log(interestingHTML);
});
```


.HIDE / .SHOW

Hides elements by setting inline style to
`display: none;`

Shows elements by setting inline style to
`display: block.`

```
// Hides all <p>'s  
$('p').hide();
```

```
// Shows all <p>'s  
$('p').show();
```

.HIDE / .SHOW

.hide and .show both have duration elements

```
// Hides all <p>'s slowly  
$('p').hide('slow');
```

```
// Shows all <p>'s in 300ms  
$('p').show(300);
```

Try it out:

<http://codepen.io/staypuftman/pen/rLdrXG>

**MORE
CODEALONG**

OTHER FUNCTIONS

```
// Hides all <p>'s slowly  
$('p').slideUp('slow');  
$('p').slideDown(300);
```

Let's Explore:

<http://api.jquery.com/>

DOCUMENT.READY()

Wrapping your code in `$(document).ready()` is best practice for jQuery - this makes your JS wait until the rest of your page has loaded:

```
$(document).ready(function() {  
    // WRITE OTHER CODE HERE!!  
})
```

JS VS JQUERY

Creating zebra-stripped rows

JS:

<http://codepen.io/staypuftman/pen/YWaWgZ>

jQuery:

<http://codepen.io/staypuftman/pen/akYkZJ>

NEXT TIME

Finish your homework
Firm up your final project idea
JS Objects and Arrays