

# jQuery

write less, do more

# What is jQuery?

jQuery is a JavaScript library that makes DOM manipulation, animation, styling, event handling, and user interface creation a breeze.

It is open source and free to use.

# Format

`$(selector)`- Mostly the same as CSS selectors

- tag, .class, #id, input[type=text]
- All variables begin with \$

`.event()`- used to call functions on an event

- Essentially the same as JavaScript syntax

All regular javascript is fair game in jQuery, too!

# But before we start...

You must include the jQuery library in the head, and you must use jQuery wrappers.

```
<script src="//ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js"></script>
<script type="text/javascript">
$(document).ready(function() {
    // All of your jQuery code goes here
})
</script>
```

# Getting and Setting Content

`.html()`

`.attr()`

Can be used to retrieve  
or set content.

```
var content = $('#myDiv').html();
```

```
var link = $('a#myLink').attr('href');
```

```
$('#myDiv').html('<p>Text</p>');
```

```
$('#a#myLink').attr('href', 'http://google.com');
```

# Styling / The Class Attribute

`.addClass()`

`.removeClass()`

`.css`

`$('#myElement').addClass('active')`

`$('#myElement').css('color', 'red')`

# Events

`.click()`

`.hover()`

`.change()`

`.blur()` / `.focus()`

`.submit()`

**`.on()`**

`.on('click') = .click()`

```
$('#myLink').click(function() {
```

```
    // Javascript to execute
```

```
});
```

# Displaying Content

`.show()`

`.hide()`

`.slideDown()`

`.slideUp()`

`.fadeIn()`

`.fadeOut()`

`.toggle()`

```
$('#myLink').click(function() {  
    $('#myContent').toggle();  
})
```

# Let's Practice!

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

<http://bit.ly/12blM7U> - Copy this template

```
<html lang="en">
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
  <meta charset="UTF-8">
  <title>jQuery Boilerplate</title>
  <script src="//ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js"></script>
<script src="//ajax.googleapis.com/ajax/libs/jqueryui/1.10.1/jquery-ui.min.js"></script>
  <script type="text/javascript"></script>
</head>
<body>
</body>
</html>
```

# What is jQuery UI?

jQuery UI is a set of themes, effects, and widgets that help you easily create an elegant user interface.

# jQuery UI

Some examples:

```
$('.tabs').tabs()
```

```
$('.datepicker').datepicker()
```

```
$('.slider').slider()
```

```
$('.button').button()
```

Let's practice!

- <http://www.jqueryui.com/> - See left sidebar
- <http://www.youtube.com/watch?v=RBjMG4H3MFc>

# Using ajax with jQuery

```
jQuery.ajax(url, [settings]);
```

```
jQuery.post(url, [settings]);
```

Let's practice!

# Other Libraries

jQuery is probably the most widely used JS library. Other libraries include:

- Prototype
- Mootools

All have relatively comparable features.

# Examples from class

<http://www.cs.rochester.edu/courses/210/spring2013/examples/jquery/>

Happy coding!