# jQuery for Manipulation and Event Handling

# jQuery in a Nutshell:

1. Select elements
2. Manipulate selected elements
3. Add event listeners to selected elements

```javascript
// Hide all image tags.
$('img').hide();

// Write a message when any links are clicked.
$('a').on('click', function() {
  console.log('that tickles!');
});
```

# Attributes

"Set or get the value of an attribute on an element."

# attr: Set and Get attributes on elements

```javascript
// Get the value of "src" attribute.
$('img').attr('src');


// Set the value of "src" attribute.
$('img').attr('src', 'http://google.com/logo.png');
```

# Manipulation

"Get or Set elements on the page."

# remove: Remove an element from the page

```
<a>One</a>
<a>Two</a>
<img src="three.jpg"/>
<img src="four.jpg"/>
```

```
//Remove all the links from the page

$('a').remove();
```

```
//Remove the first image from the page

$('img').eq(0).remove();
```

# html: Set or Get the contents of an element

```html
<div class="container">
  Original
</div>
```

```javascript
// Get the contents of the container.
$('.container').html();

// Update the contents of the container.
$('.container').html('New Content');
```

# Effects

"Easy ways to update or animate the page."

# hide: Hide elements without removing them

```html
<div>
  <span>A</span>
  <a>B</a>
  <img src="c.png"/>
</div>
```

```javascript
// Hide all links and buttons
$('a, button').hide();
```

# show: Show elements that are hidden

```html
<div>
  <span>A</span>
  <a>B</a>
  <img src="c.png"/>
</div>
```

```javascript
// Show links if they are hidden
$('a').show();
```

# Events

"When X happens, do Y"

X is an event and Y is a function

# Add event handler

```
$(selector).on(event, handlerFunction);
```

**For instance:**

```
<span>Click Me</span>
```

```javascript
// Log when the span is clicked
$('span').on('click', function() {
  console.log('clicked');
});
```

# Most common event types:

1. click
2. mouseenter
3. mouseleave
4. hover

# Which *specific* element was clicked?

*this* refers to the target object inside of handler functions

```
$('tr').on('mouseenter', function () {
  $(this).attr('class', 'highlight');
});
```

# document ready event

```
$(document).ready(function() { ... });
```

- Just a regular event
- Triggered on the document when it is loaded.
- Used to make sure the document is loaded before running jQuery code.
- No quotes around document.

# Try it for yourself!

Go to any wikipedia page, and use the console in the Chrome inspector to try out effects, manipulation and events on the page.



**Before**

**After**