

Grow with Google: Lesson 19

The Tricks: DOM Manipulation

1. jQuery Documentation and You

- [jQuery API Documentation](#)
- Optional parameters are in square brackets.

2. Quiz: `you.toggleClass()` Quiz

- [.toggleClass\(\) | jQuery API Documentation](#)

```
var featuredArticle;  
  
featuredArticle = $('.featured').toggleClass('featured');
```

3. Quiz: Toggling Classes Quiz

- [.next\(\) | jQuery API Documentation](#)

```
var article2, article3;  
  
article2 = $('.featured');  
  
article3 = article2.next();  
  
article2.toggleClass('featured');  
article3.toggleClass('featured');
```

4. Quiz: Changing Attributes Quiz

- [.attr\(\) | jQuery API Documentation](#)

```
var navList;  
  
navList = $('a').first().attr('href', '#1');  
// This only works because the target a tag is indeed the first on the page.  
// Being more specific would prevent bugs as the code evolves.
```

5. Quiz: Modifying CSS Quiz

- [.css\(\) | jQuery API Documentation](#)

```
var articleItems;  
  
articleItems = $('.article-item').css('font-size', '20px');
```

6. Pulling HTML and Text

- `.html` returns all the HTML.
- `.text` returns only the text within the HTML.
- [.html\(\) | jQuery API Documentation](#)
- [.text\(\) | jQuery API Documentation](#)

7. Quiz: Collecting Values Quiz

- [.val\(\) | jQuery API Documentation](#)
- [Events | jQuery API Documentation](#)

```
$('#input').on('change', function() {  
    var val;  
    val = $('#input').val();  
    var h1 = $('#input').next().html(val);  
    // Also works with .text but I'm not sure why this works.  
});
```

8. Quiz: Removing DOM Elements

- [.remove\(\) | jQuery API Documentation](#)

```
var articleItems;  
  
articleItems = $('.article-item').find('ul').remove();
```

9. Adding DOM Elements

- Adding elements to the DOM with Vanilla JS requires a lot of confusing syntax.
- In addition, each step occurs independently.
- [.append\(\) | jQuery API Documentation](#)
- [.prepend\(\) | jQuery API Documentation](#)

- [.insertBefore\(\) | jQuery API Documentation](#)
- [.insertAfter\(\) | jQuery API Documentation](#)

10. Appending Child Elements

- Append: Element is added as last child.
- Prepend: Element is added as first child.
- Insert Before: Adds a sibling before the selected element.
- Insert After: Adds a sibling after the selected element.

11. Quiz: Build a DOM (Family) Tree!

```
var secondFamily = '<div id="family2"><h1>Family2</h1><div
id="bruce"><h2>Bruce</h2><div id="madison"><h3>Madison</h3></div><div
id="hunter"><h3>Hunter</h3></div></div></div>';

$(secondFamily).insertAfter('#family1');
```

12. Quiz: Iterating with Each Quiz

- [.each\(\) | jQuery API Documentation](#)
 - Essential a `for` loop that iterates over the elements in the DOM.
 - `this` refers to the target element.
 - The solutions shared are always far more verbose.

```
$('.p').each(function(plength) {           // Iterate through each <p>.
    plength = $(this).text().length; // Calculate the length of text in each <p>.
    $(this).append(plength);           // Add the length to the end of each <p>.
});
```

13. Quiz: Why use jQuery? Quiz

- Fast Selection
- Easy DOM Manipulation
- Cross-Browser Compability

14. Outro

15. \$(function)

- Functions passed into the jQuery object run on `document.ready`, after the DOM has

loaded.

- External JS files in the document `<head>` are downloaded before files included in the `<body>`.
 - JS files are executed immediately at their location in the document.
 - They can't access DOM elements after the `<script>` tag in the DOM.
 - You could insert the script at the bottom of the `<body>`, but it can slow down the initial page render.
 - Instead, pass the function into a jQuery object.

```
$(function(placeholder) {  
  placeholder = "http://placekitten.com/350/150"  
  $('img').attr('src', placeholder);  
})
```