

Grow with Google: Lesson 18

The Basics: the DOM, \$, and Selectors

1. Course Introduction

- "60% of the top 100,000 websites use jQuery." (2014)
- jQuery is a JavaScript library, not an independent language.

2. Why Does jQuery Exist?

- jQuery is *just* a JavaScript library.
- jQuery was created to make manipulating the DOM simpler.
 - This can be done with one jQuery function.
 - Allows you to focus on UX, not browser quirks.

3. Quiz: What is jQuery Actually?

- jQuery is a function and an object.

4. Money, Money, Money (the \$)

- `$` is shorthand for `jQuery` and acts as a pointer to the same JavaScript object.
- Like jQuery, **MooTools** is also mapped to the `$`.

5. How to Use the \$

- `$` returns an array-like object with additional methods.
- It accepts strings, functions, and DOM elements.
- [Intro to AJAX | Udacity](#)

6. Quiz: DOM Inspiration

- The DOM is a data structure.
- In an unordered list, the `ul` tag is the parent of the `li` tags.

7. How Is jQuery Included in a Page?

- Host jQuery locally, using jQuery's official host, or a Content Delivery Network, like Google.
- CDNs are the fastest option.

8. Quiz: Select by Tags

- [Selectors: jQuery API Documentation](#)

```
var listElements;
```

```
listElements = $('li');  
console.log(listElements);
```

9. Quiz: Select by Classes Quiz

- Selecting by tag usually means a different solution may be better.
- Selecting classes allows more control.
- Any valid CSS selector is also valid in jQuery.

```
var articleItems;  
  
articleItems = $('.article-item');  
console.log(articleItems);
```

10. Quiz: Select by IDs

- Specific to single elements.

```
var nav;  
  
nav = $('#nav');  
console.log(nav);
```

11. Family Tree Revisited

- DOM Traversal Methods

```
$('.child').parent(); // One up  
$('.child').parents(); // Many up  
$('.child').child(); // One down  
$('.child').find(); // Many down  
$('.child').siblings(); // Other children
```

12. Quiz: Filters Quiz

- Filtering

```
var articleList, h1, kids, parents;
```

```
articleList = $('.article-list');

h1 = articleList.siblings(`h1`);
// Calling jQuery on the articleList variable is redundant since it already
calls jQuery.

kids = articleList.find(`*`); // Selectors are required for find.

parents = articleList.parents(`div`);
```

13. High Five!

- [jQuery API Documentation](#)