jQuery

ITP 301
Spring 2021
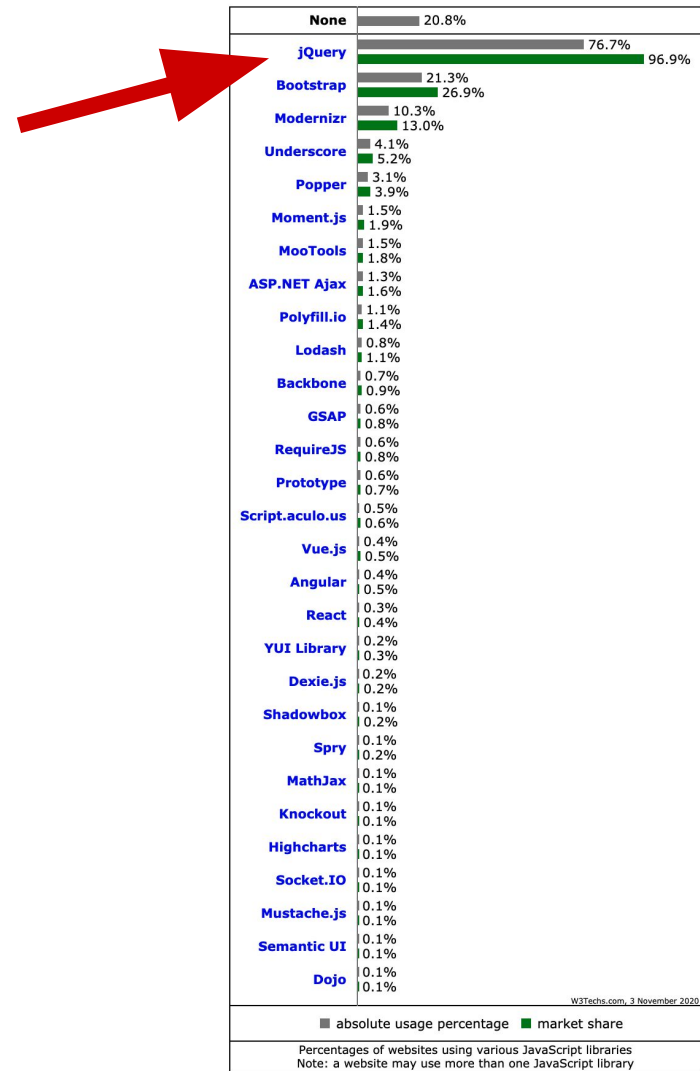
Website: http://jquery.com/

JavaScript library.

- Pre-written JS code for easier, faster development.

Cross-browser compatible.

Very useful for animations.

As of November 2020, the most popular JS library:

- According to *Web Technology Surveys*:
  https://w3techs.com/technologies/overview/javascript_library/all

	absolute usage percentage	market share
None	20.8%	
jQuery	76.7%	96.9%
Bootstrap	21.3%	26.9%
Modernizr	10.3%	13.0%
Underscore	4.1%	5.2%
Popper	3.1%	3.9%
Moment.js	1.5%	1.9%
MooTools	1.5%	1.8%
ASP.NET Ajax	1.3%	1.6%
Polyfill.io	1.1%	1.4%
Lodash	0.8%	1.1%
Backbone	0.7%	0.9%
GSAP	0.6%	0.8%
RequireJS	0.6%	0.8%
Prototype	0.6%	0.7%
Script.aculo.us	0.5%	0.6%
Vue.js	0.4%	0.5%
Angular	0.4%	0.5%
React	0.3%	0.4%
YUI Library	0.2%	0.3%
Dexie.js	0.2%	0.2%
Shadowbox	0.1%	0.2%
Spry	0.1%	0.2%
MathJax	0.1%	0.1%
Knockout	0.1%	0.1%
Highcharts	0.1%	0.1%
Socket.IO	0.1%	0.1%
Mustache.js	0.1%	0.1%
Semantic UI	0.1%	0.1%
Dojo	0.1%	0.1%

W3Techs.com, 3 November 2020

Percentages of websites using various JavaScript libraries
Note: a website may use more than one JavaScript library

Loading jQuery

Two methods:

1. Local File ———————————————————— `<script src="jquery-3.3.1.min.js"></script>`

2. Content Delivery Network (CDN) ———— `<script src="http://code.jquery.com/jquery-3.3.1.min.js"></script>`

Local File	CDN
Total control over the file.	File controlled by third party.
Browser caching relies on repeat visitors.	Browser caching leverages popularity.

jQuery Syntax

Two main components:

1. jQuery Object
2. jQuery Method

List of jQuery Methods: http://api.jquery.com/

```
$('CSS Selector').method();
```

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```
// Get current background color of <body>
$('body').css('background-color');

// Set background color of <body> to #CCC
$('body').css('background-color', '#CCC');

// Get current 'src' attribute of #my-img
$('#my-img').attr('src');

// Set 'src' attribute of #my-img to 'example.jpg'
$('#my-img').attr('src', 'example.jpg');

// Set 'href' attribute of #my-url to 'https://usc.edu'
$('#my-url').attr('href', 'https://usc.edu');

// Get current innerHTML of #my-div
$('#my-div').html();

// Set innerHTML of #my-div to 'New innerHTML text.'
$('#my-div').html('New innerHTML text.');

// Hide #my-elt's next sibling.
$('#my-elt').next().hide();

// Change text color of #my-elt's parent to #900.
$('#my-elt').parent().css('color', '#900');
```

jQuery `this` Keyword

Regular `this` keyword does <u>not</u> work with jQuery methods.

Only jQuery equivalent has access to jQuery methods: `$(this)`

```
this.innerHTML

this.html()

$(this).innerHTML

$(this).html()
```