



JQUERY

Chapter 10

What is jQuery?



jQuery is a JavaScript Library.



jQuery greatly simplifies JavaScript programming.



jQuery is easy to learn.



Introduced in 2006



Makes it easier for DOM manipulation

What is jQuery?



jQuery is a lightweight, "write less, do more", JavaScript library.



The purpose of jQuery is to make it much easier to use JavaScript on your website.



jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.



jQuery also simplifies a lot of the complicated things from JavaScript, like AJAX calls and DOM manipulation.



The jQuery library contains the following features:

- HTML/DOM manipulation
- CSS manipulation
- HTML event methods
- Effects and animations
- AJAX
- Utilities



Tip: In addition, jQuery has plugins for almost any task out there.

Why jQuery?

- There are lots of other JavaScript libraries out there, but jQuery is probably the most popular, and also the most extendable.
- Many of the biggest companies on the Web use jQuery, such as:
 - Google
 - Microsoft
 - IBM
 - Netflix

Will jQuery work in all browsers?

The jQuery team knows all about cross-browser issues, and they have written this knowledge into the jQuery library.

jQuery will run exactly the same in all major browsers.

Most 3rd party JS frameworks are built on jQuery

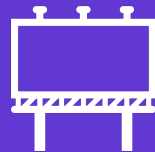
Why use a 3rd party library?



Removes headaches associated with cross-browser Javascript



Removes writing code that works



Allows more programmers to provide advanced features – drag&drop, animations, etc

Why AVOID 3rd party libraries?



Performance concerns – just consider the load time for browser to download hundreds of routines that won't be used



Privacy concerns – can you guarantee to your user base what will and will not be shared with the third parties?



Security concerns – same concerns as privacy; could you be liable to a law suite?



Unpredictability – do you understand what it does in all situations; what happens if/when it changes?



Here's a great tool for Chrome to help you better understand what's going on under the hood

<https://developers.google.com/web/tools/chrome-devtools>

Try it out on some of your favorite websites



Here is an EXCELLENT short article on this issue – I highly recommend it to you

<https://medium.com/@PepsByou/why-you-should-reconsider-using-third-party-javascript-libraries-fc9787b3fb44>

Is jQuery still relevant?

- Although the library is gradually losing grounds, it is still relevant. There are many websites that use it. JQuery is still in use on a staggering 77 percent of the top 1 million websites, according to BuiltWith.
- Current version is 3.4.1
- Place to go - <https://jquery.com/download/>
- Can be used without download
 - `<script`
 - `src="http://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"`
 - `type="text/javascript"></script>`
- Using google's may out perform your own server

Easier to access DOM



`$("#someElement")` – gives you access to a DOM element named someElement



`$(".someClass")` – returns a collection of all elements with classname of someClass



Consider: `$(".hideMe").hide();` - will hide ALL elements with the class name hideMe



`$("p").append(" powered by jQuery");` - appends this to ALL HTML P's



`$("p").css("background-color","yellow")`

Using jQuery

Either host it on your server, recommend a /js/ directory for all javascript code

Or use a hosted one like ajax.googleapis.com

Know difference of the “minified” (or just “min”) version – provides faster access – why? See page 264

Be sure to understand window.onload event and `$(function() { // jQuery code here });`

See example 10.1