


jQuery Fundamentals

Lesson 01

August 14, 2014

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v 1.0

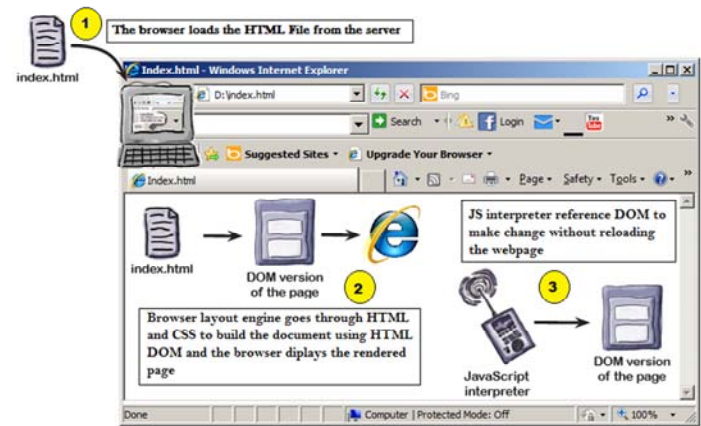

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Lesson Objectives

- jQuery Introduction
- Why use jQuery?
- Referencing a jQuery script
- jQuery Versions
- Using Content Delivery Network(CDN)
- Using jQuery
- jQuery Code Assistance



How webpage works



jQuery Introduction

- jQuery is a JavaScript library (single file)
- It supports cross browser
- Select HTML elements
- Handle Events
- Animate HTML elements
- Make Ajax calls
- 1000's of plug-ins available

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Why jQuery?

- JavaScript is great for a lot of things especially manipulating the DOM but it's pretty complex stuff. DOM manipulation is by no means straightforward at the base level, and that's where jQuery comes in. It abstracts away a lot of the complexity involved in dealing with the DOM, and makes creating effects super easy.
- It can locate elements with a specific class
- It can apply styles to multiple elements
- It solves the cross browser issues
- It supports method chaining
- It makes the client side development very easy

jquery.com (Official Website for jQuery)

The screenshot shows the jQuery website homepage. At the top, there is a navigation bar with links: Download, Documentation, Tutorials, Bug Tracker, and Discussion. The main content area features a large banner for the "New jQuery Conference! Boston, Massachusetts CONFERENCE 2011" held on October 1st & 2nd, 2011, at The Royal Sonesta Hotel. To the right of the banner, it lists "Dates, Speakers, Sponsors" with a link to <http://events.jquery.org>. Below the banner, a section titled "jQuery is a new kind of JavaScript Library." describes it as a fast and concise library for simplifying HTML document traversing, event handling, animating, and Ajax interactions. It lists three key features: Lightweight Footprint, CSS3 Compliant, and Cross-browser. On the right side, there is a section titled "GRAB THE LATEST VERSION!" with a sub-header "CHOOSE YOUR COMPRESSION LEVEL:". It offers two options: "PRODUCTION (31KB, Minified and Gzipped)" and "DEVELOPMENT (229KB, Uncompressed Code)". A "Download jQuery" button is present, and below it, it states "Current Release: 1.8.2".

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Using jQuery

```
<html>
<head>
<title>Test jQuery</title>
<script type="text/javascript" src="jquery-1.6.4.js"></script>
<script type="text/javascript">
    $(document).ready(function(){
        alert('Hi'); });
</script>
</head>
<body>
    jQuery Enabled
</body>
</html>
```

Demo

➤ Test-jQuery.html



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jQuery code assistance

➤ VS 2008 / 2010 provides jQuery Intellisense

- <http://www.appendto.com/community/jquery-vsdoc>
- Place jQuery-vsdoc.js file into the same path as the jquery.js file
- <http://weblogs.asp.net/scottgu/archive/2008/11/21/jquery-intellisense-in-vs-2008.aspx>

➤ Other IDE's

- Eclipse(with plug-in) - <http://www.eclipse.org/>
- Aptana Studio - <http://www.aptana.com/>

Content Delivery Network(CDN)

- **Script can be also accessible from**
 - Microsoft - <http://ajax.aspnetcdn.com/ajax/jQuery/jquery-1.6.2.min.js>
 - jQuery - <http://code.jquery.com/jquery-1.6.2.min.js>
 - Google - <http://ajax.googleapis.com/ajax/libs/jquery/1.6.2/jquery.min.js>
- **A CDN short for Content Delivery Network distributes static content across servers in various, diverse physical locations. When a user's browser resolves the URL for these files, their download will automatically target the closest available server in the network.**
- **If jQuery is hosted locally then users must download it at least once. Each of your users probably already has dozens of identical copies of jQuery in their browser's cache, but those copies of jQuery are ignored when they visit your site. Even if someone visits hundreds of sites using the same CDN hosted version of jQuery, they will only need download it once!**

noConflict method

- Many JavaScript libraries use \$ as a function or variable name, just as jQuery does.
- In jQuery's case, \$ is just an alias for jQuery, so all functionality is available without using \$. If we need to use another JavaScript library alongside jQuery, we can return control of \$ back to the other library with a call to \$.noConflict

```
<script type="text/javascript" src="other_lib.js"></script>
<script type="text/javascript" src="jquery.js"></script>
<script type="text/javascript">
$.noConflict();
//Code that uses other libraries $ can follow here.
</script>
```

Lab

- 1.1: Creating jQuery Page
- 1.2: Accessing jQuery Script from CDN



Summary

- jQuery is a cross browser java script library
- Available at <http://www.jquery.com>
- Provide a robust way to manipulate DOM elements
- The ready() function detects when the DOM hierarchy is loaded



Review Question

➤ Which sign does jQuery use as a shortcut for jQuery?

- A. \$ Sign
- B. % Sign
- C. # Sign
- D. ? Sign



➤ Which jQuery function is used to prevent code from running, before the document is finished loading?

- A. `$(document).load()`
- B. `$(document).ready()`
- C. `$(body).onload()`