



# jQuery

Course ISI-1295D - 5 Days - Instructor-led, Hands on

## Introduction

Today, jQuery is used in over 60% of the one million most-visited websites, and that makes it one of the technologies that every web developer should master. The problem is that jQuery is difficult to learn, even for those with programming experience. This course makes it as easy as possible for you to learn how to use jQuery to create the dynamic user interfaces, fast response times, and special effects that today's users expect

## Prerequisites

Students should be familiar with HTML, CSS, as well as have foundational knowledge and experience with the JavaScript Language.

Developers should know how to create a web page using a mix of HTML and CSS. They should attend Course ISI-1372, Introduction to HTML, and CSS3 CSS for Web Designers & Developers, or have equivalent skills and knowledge.

To obtain JavaScript skills, students should attend Course ISI-1337, Introduction to JavaScript, or have equivalent skills and knowledge.

## Course Objectives

- Start off with the least you need to know about JavaScript to get the most out of jQuery
- Use jQuery and jQuery plugins to create image swaps, collapsible panels, slide show, forms and more
- Use jQuery UI to add widgets, interactions and effects that enhance the user experience
- Use Ajax to quickly update the data on a page and JSON to get data from popular APIs like Google Maps
- Use the HTML5 APIs for geolocation, web storage and multi-threading
- Use jQuery to create sites for mobile devices

## Course Outline

### Module 1: JavaScript Essentials for jQuery users

- Four hours will be spent reviewing JavaScript Essentials

### Module 2: jQuery Essentials

- Get off to a fast start with jQuery

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- Introduction to jQuery
- The basics of jQuery programming
- The Email list application in jQuery
- A working subset of selectors, methods and event methods
- Three illustrative applications
- How to use effects and animations
  - How to use effects
  - A Slide Show application with effects
  - How to use animation
  - A Carousel application with animation
- How to create and use jQuery plugins
  - Introduction to plugins
  - How to use three of the most useful plugins
  - How to create your own plugins
  - A web page that uses two plugins
- How to work with forms and data validations
  - Introduction to forms and controls
  - How to use jQuery to work with forms
  - A Validation application that uses JavaScript
  - How to use a plugin for data validation
  - A Validation application that uses the validation plugin
- How to use the DOM manipulation and traversal methods
  - The DOM manipulation methods
  - The TOC application
  - The methods for working with styles and positioning
  - Two event methods used with DOM manipulation
  - The DOM traversal methods

### **Module 3: jQuery UI Essentials**

- Get off to a fast start with jQuery UI themes and widgets
  - Introduction to jQuery UI
  - How to build and use a jQuery UI download
  - How to use jQuery UI widgets
  - A web page that uses jQuery UI
- How to use jQuery UI interactions and effects
  - How to use interactions
  - How to use effects

### **Module 4: Ajax, JSON and APIs**

- How to use Ajax, JSON and Flickr
  - Introduction to Ajax
  - How to use the jQuery shorthand methods for Ajax
  - How to use the \$.ajax method for working with Ajax
  - How to use Ajax with Flickr
- How to use the APIs for YouTube, Twitter and Flickr
  - How to use Ajax and YouTube
  - How to use Ajax with Twitter
  - How to use Ajax and Flickr
- How to use the API for Google Maps
  - Introduction to Goggle Maps
  - How to display markers on a map



- How to display messages on a map
- How to display driving directions on a web page
- How to use the HTML5 APIs
  - An introduction to the HTML5 APIs
  - How to use the Geolocation API
  - How to use the Web Storage API
  - How to use the Web Workers API
  - An application that uses a web worker and web storage

### **Module 5: jQuery Mobile**

- Get off to a fast start with jQuery Mobile
  - How to work with mobile devices
  - How to get started with jQuery Mobile
  - How to format content with jQuery Mobile
  - A mobile web site
- How to enhance a jQuery Mobile website
  - How to use the jQuery Mobile documentation
  - How to use jQuery Mobile to format content
  - How to use jQuery Mobile for list views
  - How to use jQuery Mobile for forms
  - An enhanced mobile web site