

jQuery is fast becoming a must-have skill for front-end developers. The purpose of this 3-day jQuery training course is to provide an overview of the jQuery JavaScript library. When you complete this training course, you will be able to complete basic tasks using jQuery, and you will have a solid basis from which to continue your learning.

Course Objectives:

- Learn to work with jQuery Core.
- Learn to handle events with jQuery.
- Learn to create cool effects with jQuery.
- Learn to build Ajax applications with jQuery.
- Learn to write and use jQuery plugins
- Learn to write high-performing jQuery applications.

Audience: Front-end developers.

Prerequisites: Experience in HTML and JavaScript, and experience in CSS would be beneficial.

Number of Days: 3 days

1	jQuery Introduction	Selecting Elements
	How jQuery Works	Operating on Selections
	A First Example	Working with Selections
2	JavaScript Basics	CSS, Styling, and Dimensions
	Syntax Basics	Traversing
	Reserved Words	Manipulating the DOM
	Operators	4
	Operations on Numbers and Strings	jQuery Core
	Logical Operators	\$ vs jQuery
	Comparison Operators	\$ vs \$()
	Conditional Code	Utility Methods
	Conditional Variable Assignment with the Ternary Operator	Checking Types
	Switch Statements	Storing and Retrieving Data Related to an Element
	Loops	DOM-Related Utilities
	Arrays	Feature and Browser Detection
	Objects	Avoiding Conflicts with Other Libraries
	Functions	5
	Testing Type	Events and Event Handlers
	Scope	Connecting Events to Elements
	Closures	Removing Event Handlers
3	jQuery Basic Concepts	Namespacing Events
	Basic Flow of a jQuery Application	Inside the Event Handling Function
	Using \$(document)ready()	Triggering Event Handlers
		Increasing Performance with Event Delegation

	Removing Delegated Event Handlers	Use Event Delegation
	Event Helpers	Detach Elements to Work with Them
6	Effects	Use Stylesheets for Changing CSS on Many Elements
	Built-in Effects	Use \$.data Instead of \$.fn.data
	Changing the Duration of Built-in Effects	Code Organization
	jQueryfxspeeds	Key Concepts
	Limitations on Effects	Don't Treat jQuery as a Black Box
	Queuing of Effects with Other Operations	10 Custom Events
	Callbacks - Doing Something When an Effect is Done	About Custom Events
	Running Code When an Effect is Complete	Recap: \$.fn.on, \$.fn.trigger, and \$.fn.triggerHandler
	Custom Effects with \$.fn.animate	Summary
	Easing	11 jQuery Mobile jQuery UI
	Managing Effects	jQuery UI
	jQuery.fx.off	jQuery Mobile
7	AJAX	
	Key Concepts	
	GET vs POST	
	The Same Origin Policy	
	Data Types	
	A is for Asynchronous	
	Same-Origin Policy and JSONP	
	Ajax and Firebug	
	jQuery's Ajax-Related Methods	
	Convenience Methods	
	\$.ajax	
	Convenience Methods	
	\$.fn.load	
	Ajax and Forms	
	Working with JSONP	
	Ajax Events	
8	Plugins	
	How to Create a Basic Plugin	
	Testing Our Plugin	
	Finding and Evaluating Plugins	
9	Best Practices	
	JavaScript Best Practices	
	Namespacing Variables	
	Cache Frequently Used Values	
	Beware Anonymous Functions	
	jQuery Best Practices	
	Optimize Selectors	
	Use "Safe" Selectors	