

JavaScript & jQuery: DOM Scripting & AJAX

Learn to build interactive web pages with JavaScript and jQuery, from DOM scripting and events to AJAX, plugins and jQuery Mobile.

18

MODULES

55

TOPICS

COURSE OVERVIEW

This course covers the fundamentals of web application structure before introducing JavaScript syntax, data, control statements, objects, functions, events and arrays. It then moves into DOM scripting, testing and debugging, followed by jQuery basics, effects and animations, DOM manipulation and traversal, forms and data validation, and building custom plugins. Later modules cover jQuery UI themes and widgets, interactions and effects, and AJAX and JSON, including integration with Blogger, YouTube, Twitter, Flickr and Google Maps. The course concludes with jQuery Mobile for building and enhancing mobile web sites.

WHO THIS COURSE IS FOR

Web Developers

Front-End Developers

JavaScript Programmers

UI Developers

Mobile Web Developers

LEARNING OBJECTIVES

- Explain how web applications and JavaScript components fit together
- Apply JavaScript syntax, data types and control statements
- Implement objects, functions, events and arrays in scripts
- Script the DOM to manipulate links, images and timers
- Test and debug a JavaScript application
- Build interactive pages with jQuery selectors, effects and animations
- Develop custom plugins and jQuery UI widgets and themes
- Configure AJAX requests with JSON and third-party APIs

18 Modules, 55 Topics

01

Introduction to Web Development

TOPICS

How a web application works · The components of a JavaScript application

02

Getting Started with JavaScript

TOPICS

How to include JavaScript in an HTML document · The JavaScript syntax · How to work with JavaScript data · How to code control statements

03

How to Work with Objects, Functions, and Events

TOPICS

How to use objects to work with data · How to use functions · How to handle events

04

How to Work with Arrays

TOPICS

How to create and use an array

05

How to Script the DOM with JavaScript

TOPICS

DOM scripting properties and methods · DOM scripting skills for links and image · How to use timers

06

How to Test and Debug a JavaScript Application

TOPICS

An introduction to testing and debugging · How to find errors in your code · How to test a JavaScript application

07

Get off to a Fast Start with jQuery

TOPICS

- Introduction to jQuery
- The basics of jQuery programming
- A working subset of selectors, methods, and event methods

08

How to Use Effects and Animations

TOPICS

How to use effects · How to use animation

09

How to Use the DOM Manipulation and Traversal Methods

TOPICS

- The DOM manipulation methods
- The methods for working with styles and positioning
- The DOM traversal methods

10

How to Work with Forms and Data Validation

TOPICS

Introduction to forms and controls · How to use jQuery to work with forms · How to use a plugin for data validation

11

How to Create and Use Plugins

TOPICS

Introduction to plugins · How to use four of the most useful plugins · How to create your own plugins · A web page that uses two plugins

12

Get off to a Fast Start with jQuery UI Themes and Widgets

TOPICS

Introduction to jQuery UI · How to build and use a jQuery UI downloads · How to use jQuery UI widgets · A web pages that uses jQuery UI

13

How to Use jQuery UI Interactions and Effects

TOPICS

How to use interactions · How to use effect

14

How to Use Ajax, JSON, and Blogger

TOPICS

- 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 the API for Google's Blogger

15

How to Use the APIs for YouTube, Twitter, and Flickr

TOPICS

How to use Ajax with YouTube · How to use Ajax with Twitter · How to use Ajax with Flickr

16

How to Use the API for Google Maps

TOPICS

Introduction to Google Maps · How to display markers on a map · How to display messages on a map · How to display driving directions

17

Get off to a Fast Start with jQuery Mobile

TOPICS

How to work with mobile devices · How to get started with jQuery Mobile · How to style web pages with jQuery Mobile

18

How to Enhance a jQuery Mobile Web Site

TOPICS

- How to use the jQuery Mobile documentation
- How to use jQuery Mobile for content formatting
- How to use jQuery Mobile for list views
- How to use jQuery Mobile for form

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

Ready to Get Started?

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