

Hands-on course , 5
day(s)
Ref : ERY

Participants

Web Developers IT experts
who want to develop Web
applications using jQuery.

Pre-requisites

Basic knowledge of
JavaScript language
and Web technologies.
Good knowledge of HTML
language.

Next sessions

JQuery: Developing Web 2.0 applications

OBJECTIVES

Developing Web applications using JavaScript often requires adapting the code to the browser. The jQuery framework is a very common solution to this sort of issue. This course will teach you how to implement and improve the ergonomics and interactivity of your websites.

[1\) Overview of jQuery](#)

[2\) Utility methods of jQuery](#)

[3\) Selectors](#)

[4\) Access to the DOM tree](#)

[5\) Event management](#)

[6\) Ajax and jQuery](#)

[7\) Visual effects and rich interface with jQuery](#)

1) Overview of jQuery

- What is jQuery? Why jQuery?
- Benefits compared to JavaScript alone.
- jQuery elements, jQuery UI. The jQuery object.

Workshop

Installing jQuery. Setting up an initial Web page using jQuery.

2) Utility methods of jQuery

- Reminder about Javascript objects.
- Handling objects with jQuery.
- jQuery object processing methods.
- Table processing methods with jQuery.
- Character strings and JavaScript.
- jQuery string processing methods.

Workshop

Setting up Web applications with different types of elements using jQuery.

3) Selectors

- Overview of jQuery selectors.
- Role of selectors. Different types of selectors.
- Pseudo-classes. Combinators.

Workshop

Setting up Web applications using selectors.

4) Access to the DOM tree

- Refresher about DOM (Document Object Model).
- Direct access to a page's elements.
- Handling DOM with jQuery.
- Managing CSS classes (addClass(), removeClass() ...
- Inserting elements into the DOM tree.

Workshop

Working with the DOM tree.

5) Event management

- The notion of events in Javascript.
- Event management with the bind method.
- Passing parameters with the bind method.

6) Ajax and jQuery

- Querying a server with jQuery.
- Ajax queries using \$.ajax().
- Processing the server's reply.
- Passing parameters to the server.

Workshop

Using Ajax with jQuery.

7) Visual effects and rich interface with jQuery

- Standard visual effects in jQuery. Creating your own visual effects. Using animate().
- Configuring effects with easing. Managing the visual effects queue.
- Overview and installation of jQuery UI. Using evolved components.
- tabs(), accordion(), dialog(), progressBar().

- Drag and drop Selecting multiple things. Permutations of elements in a page. Resizing an element.

Workshop

Putting visual effects in place.