Javascript, major improvement for the Web 2.0

Hands-on course of 4 days - 28h
Ref.: JPG - Price 2024: CHF2 490 (excl. taxes)

THE PROGRAMME

last updated: 01/2018

1) XML parser
- DOM methods. XML structure.
- Elements such as Text, Node, Attribute.
- Dynamic creation of HTML objects
- DTD and XSD reminders
Exercise : Run through a XML structure from an Ajax feed

2) DOM 2 – DOM 3 events
- Event manager
- Capture, capturing, bubble event phases
- Description of Event type objects
- Mouse and Keyboard events
- Dynamic management of events
- Event creating and dissemination
- Impact of prevent Default and stop Propagation on the personalization of your IHM
- Differences between browsers
Exercise : Keyboard management, create your own event manager

3) Object orientated programming & Regular expressions
- Reminder on the object. Properties. Methods. Heritage.
- Scope of private and public data. Mapping and serialization
- Mechanisms of Regular expressions
- Beginning and end (^ $) Occurrences (? + * {}). Common Characters (. \d \D \w \W \s \S). Groups ([]). Negation (^). Pa
Exercise : Create a mini-framework. Date control, email.

4) Data exchange, interactions
- Cookies
- Embedded data in the Sqlite navigator
- Remote data via Ajax and HttpRequest
- Interfacing with a Flash application.
- NodeJS Javascript server. Set up.
Exercise : Communication with a Web application. Call Web services. Create a Cookie. Use of embedded database , exchange with remote data.

5) Debugging environment
- Introduction, solutions designed for browsers .
- Error messages. Performance test. Stop points. Multi browser testing .
- Test bench storage
Exercise : Create debugging tools

6) Javascript programming under HTML5
- New events.

- Client/server communication modes.
- Multimedia management.
Exercise : Create Ajax under HTML5. Video management. Persistent data management

7) Google API : Maps, Search and Charts
- Creating a Map. Coordinate systems. Geocode for the address search.
- Creating markers. Event Management GEvent.
- GRoute to identify paths.
- KML card registration.
- Integrating Google Search in pages.
- Generation of graphics with Google Charts.
Exercise : Put in place main Google Map API functions. Create statistical graphs

8) JQuery Framework
- How Jquery works. Event management.
- Install jQuery for Ajax exchanges.

DATES

REMOTE CLASS
2025 : 11 Mar, 10 Jun, 09 Sep, 30
Dec