

INFOSOFT IT SOLUTIONS

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J query

jQuery Introduction

- Target Background
- References
- Unit Topics
- What Is jQuery?
- Benefits of Using a JavaScript Library
- jQuery Example
- CSS Selectors
- How to Use jQuery
- Practical Usage Notes
- Background – DOM
- Background - DOM Ready Events
- Background - JavaScript Functions
- The jQuery Function Object
- What Does the \$() Function Take as Argument?
- What Does the \$() Function do?
- The jQuery Wrapper
- The jQuery Wrapper as an Array-Like Object
- Note: innerHTML() vs. .html()

- jQuery Wrapper Chaining
- API Function Notation
- Handling DOM Ready Event
- xhtml Note

Selectors

- Background: The Sizzle Selector Engine
- Selecting Elements by Attribute
- Pseudo-Selectors
- Form Pseudo-Selectors
- Faster Selection
- Selecting Elements Using Relationships
- Selecting Elements Using Filters
- More on Chaining: .end()
- Testing Elements
- Is the Selection Empty?
- Saving Selections
- Iterating Through Selected Elements Using .each()
- JavaScript Methods
- JavaScript "this"
- Function Context
- The Function call() Method
- .each() Revisited

Style Class Manipulation

- Two Options
- Specifying Style Properties
- Setting Style Properties
- .addClass() / .removeClass()

- Defining a Stylesheet
- Setting & Getting Dimensions
- Attributes

DOM Manipulation

- The \$ Function Revisited
- Getters and Setters
- The text() Element Method
- Appending DOM Elements
- Removing DOM Elements
- Performance

Events

- Event Overview
- Old School: Event Handling Using HTML Element Attributes
- Unobtrusive JavaScript
- Unobtrusive JavaScript Example
- Multiple Handlers
- Using jQuery Wrapper Event Registration Methods
- The .bind() Method
- Event Propagation
- Handlers for Elements Before They Exist!
- The Event Object
- Triggering Events

Utility Functions

- The jQuery Object Revisited
- Functions May Have Methods
- A jQuery Utility Function: \$.trim()
- \$.each()

- Example jQuery Utility Functions

Ajax

- Ajax Overview
- The Browser & the Server
- The Ajax Request
- The Ajax Response
- Sending an Ajax Request With jQuery - The General Case
- When this code is executed...
- Sending an Ajax Request With jQuery - Simpler, Typical Case
- Data Types
- The .data() method

Advanced Ajax

- A Form Example
- An Ajax Form Example
- Serialize()
- Get vs. Post
- More on Query Strings
- ajaxStart() and ajaxError()

Animations and Effects with jQuery and jQuery UI

- What is jQuery UI?
- Can I do Animations and Effects using jQuery only?
- Hiding Elements with jQuery
- Using .hide() and .show() in jQuery
- Alternating an Element's Visibility in jQuery
- Adjusting the Speed in jQuery
- Providing a Handler in jQuery
- Using .slideUp() / .slideDown() methods in jQuery

- jQuery UI Categories
- jQuery UI Interactions: Droppable and Draggable
- Droppable and Draggable More Complete Example
- jQuery UI Widgets: Datepicker
- jQuery UI Widgets: Autocomplete

Parsing JSON

- JSON
- Reading JSON from the Server Using Ajax
- Example file contents
- Using the Results
- Optimized Version
- Getting More From the Response
- jqXHR Methods
- POST vs. GET
- Invalid JSON
- Using \$.ajaxSetup()

Plugins

- What is a plugin?
- Goal
- Self-Executing Anonymous Functions
- Meeting Our Goal
- Prototype Objects
- The jQuery Wrapper Class Revisited
- Example Plugin
- Using the Plugin