

jQuery Selectors

Lesson 02

Lesson Objectives



- **Introduction to Selectors**
- **Selecting Nodes by Tag Name**
- **Selecting Nodes by ID**
- **Selecting Nodes by Class Name**
- **Selecting Nodes by Attribute Value**
- **Selecting **Input** Nodes**
- **Additional Selectors**



Introduction to selectors



- jQuery uses same CSS selectors used to style our page to manipulate elements on the page.
- CSS selectors select elements to add style to those elements where as jQuery selectors select elements to add behavior to those elements.
- Selectors allow page elements to be selected.
- Single or Multiple elements are supported.
- A Selector identifies an HTML element / tag that will be manipulated with jQuery Code.
- Selector Syntax
 - *\$(selectorExpression)*
 - *jQuery(selectorExpression)*

Selecting by Tag Name



- **Selecting single tag takes the following syntax**
 - **`$('p')` – selects all `<p>` elements**
 - **`$('a')` – selects all `<a>` elements**
- **To reference multiple tags, use the (,) to separate the elements**
 - **`$('p, a, span')` - selects all paragraphs, anchors and span elements**

Demo



- **Selectors-Tagname.html**

Selecting Descendants



- **`$(‘ancestor descendant’)` - selects all the descendants of the ancestor**
 - **`$(‘table tr’)` - Selects all tr elements that are the descendants of the table element**
- **Descendants can be children, grand children etc of the designated ancestor element.**



Selecting by Element ID

- It is used to locate the DOM element very fast.
- Use the # character to select elements by ID
 - `$('#myID')` – selects `<div id="myid">` element

Demo



- **Selectors-ElementID.html**

Selecting Elements by Class Name



- Use the (.) character to select elements by class name
 - `$('.myclass')` - selects `<div class="myclass">` element
- To reference multiple tags, use the (,) character to separate the class name.
 - `$('.blueDiv,.redDiv')` - selects all the elements containing the class `blueDiv` and `redDiv`
- Tag names can be combined with elements name as well.
 - `$('div.myclass')` – selects only `<div>` tags with `class="myclass"`

Demo



- **Selectors-Classname.html**

Selecting by attribute values



- Use brackets [attribute] to select based on attribute name and/or attribute value
 - `$(‘a[title]’)` - selects all anchor elements that have a title attribute
 - `$(‘a[title=“trainer”]’)` – selects all `<a>` elements that have a “trainer” title attribute value

Demo



- **Selectors-attributes.html**

Selecting by input elements



- To select all input elements
 - `$(':input')` - selects input, select, textarea, button, image, radio etc
 - `$(':input[type="radio"]')` – selects all radio buttons

Demo



- **Selectors-inputs.html**

Additional Selectors



- **:contains()** will select elements that match the contents.
 - **\$(‘div:contains(“igate”)’)** - selects div’s which contains the text igate(match is case sensitive)
- **\$(‘element:odd’)** and **\$(‘element:even’)** is the jQuery syntax for selecting odd and even positions respectively.
 - Index is 0 based. Odd returns(1,3,5...) and Even returns (0,2,4...)
- **\$(‘element:first-child’)** and **\$(‘element:last-child’)** is the jQuery syntax for selecting the first child and last child of every element group.
 - **\$(‘span:first-child’)** returns the span which is a first child for all the groups

Additional Selectors (Contd)



- `$('attribute^="value"')` and `$('attribute$="value"')` is the jQuery syntax for selecting all the elements with an attribute that begins and end with stated value.
 - `$('input[value^="Company"]')` – selects any input element whose value starts with Company ('^' can be replaced with '*' to retrieve the elements contains the value company)

Demo



- **Additional-Selectors.html**

Summary



- **Selectors allow any type of HTML element to be located in an HTML Page**
- **Key jQuery Selector character include:**
 - **# for ID selection**
 - **. for class selection**
- **Mastering selectors is the key to being productive with jQuery!**



- **2.1: Selecting Nodes using tag name**
- **2.2: Selecting Nodes by Element ID**
- **2.3: Selecting Nodes by Class Name**
- **2.4: Selecting Nodes by Attribute Value**
- **2.5: Selecting Form Elements by type**

Review Question



- **jQuery uses CSS selectors to select elements?**
 - **True / False**
- **A _____ is used by jQuery to locate and return an element from the web page**
- **With jQuery, look at the following selector: \$("div.intro"). What does it select?**
 - A. All div elements with class="intro"**
 - B. The first div element with class="intro"**
 - C. The first div element with id="intro"**
 - D. All div elements with id="intro"**