7. jQuery - Introduction & Usage

jQuery is a lightweight, "write less, do more", JavaScript library.

The purpose of jQuery is to make it much easier to use JavaScript on website.

The jQuery library contains the following features:

- HTML/DOM manipulation
- CSS manipulation
- HTML event methods
- Effects and animations
- AJAX
- Utilities

The jQuery library is a single JavaScript file, and you reference it with the HTML <script> tag (notice that the <script> tag should be inside the <head> section):

Basic syntax is: \$(selector).action()

Example: \$(this).hide() - hides the current element.

jQuery Selectors:

Syntax	Description		
\$("*")	Selects all elements		
\$(this)	Selects the current HTML element		
\$("p.intro")	Selects all elements with class="intro"		
\$("p:first")	Selects the first element		
\$("ul li:first")	Selects the first element of the first 		
\$("ul li:first-child")	Selects the first element of every 		
\$("[href]")	Selects all elements with an href attribute		
\$("a[target='_blank']")	Selects all <a> elements with a target attribute value equal to "_blank"		
\$("a[target!='_blank']")	Selects all <a> elements with a target attribute value NOT equal to "_blank"		
\$(":button")	Selects all <button> elements and <input/> elements of type="button"</button>		
\$("tr:even")	Selects all even elements		
\$("tr:odd")	Selects all odd elements		

jQuery Event Methods:

Mouse Events	Keyboard Events	Form Events	Document/Window Events
Click	Keypress	Submit	Load
Dblclick	Keydown	Change	Resize
Mouseenter	Keyup	Focus	Scroll
Mouseleave		Blur	Unload

Example:

```
$("p").click();
```

or

```
$("p").click(function () {
    // action goes here!!
});
```

\$(document).ready() - The \$(document).ready() method allows us to execute a function when the document is fully loaded. This event is already explained in the jQuery Syntax chapter.

```
$(document).ready(function () {
    console.log("ready!");
});
```

click() - The click() method attaches an event handler function to an HTML element. When user clicks on that element callback function is called.

```
$("p").click(function () {
    $(this).hide();
});
```

hover()- callback function is called when user hovers on that html element.

```
$("#p1").hover(function () {
    alert("You entered p1!");
}, function () {
    alert("Bye! You now leave p1!");
});
```

focus() - The function is executed when the form field gets focus:

```
$("input").focus(function () {
    $(this).css("background-color", "#cccccc");
});
```

blur() - The function is executed when the form field loses focus

```
$("input").blur(function () {
    $(this).css("background-color", "#ffffff");
});
```

The **on()** Method: The on() method attaches one or more event handlers for the selected elements.

```
$("p").on({
    mouseenter: function(){
        $(this).css("background-color", "lightgray");
    },
    mouseleave: function(){
        $(this).css("background-color", "lightblue");
    },
    click: function(){
        $(this).css("background-color", "yellow");
    }
});
```