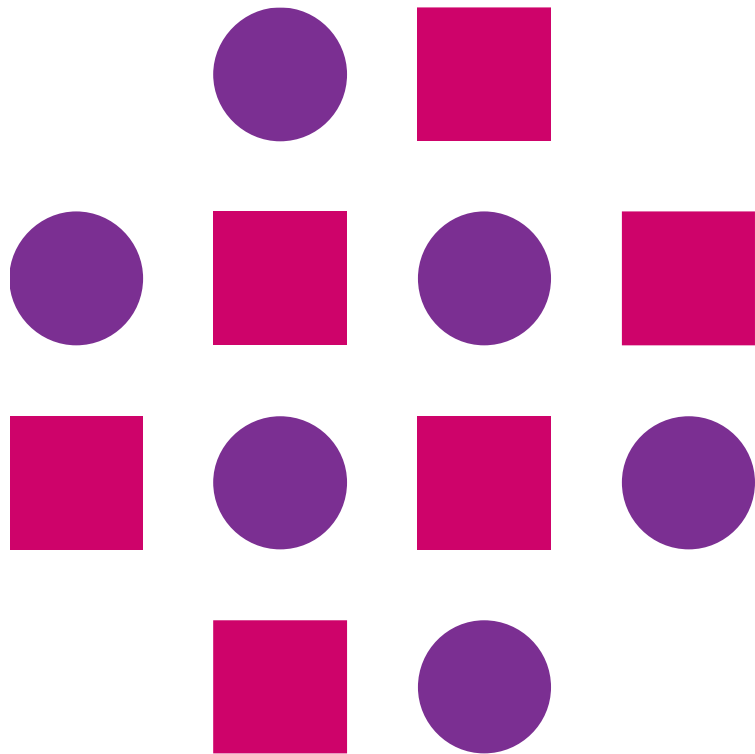


Selectors and Events

jQuery



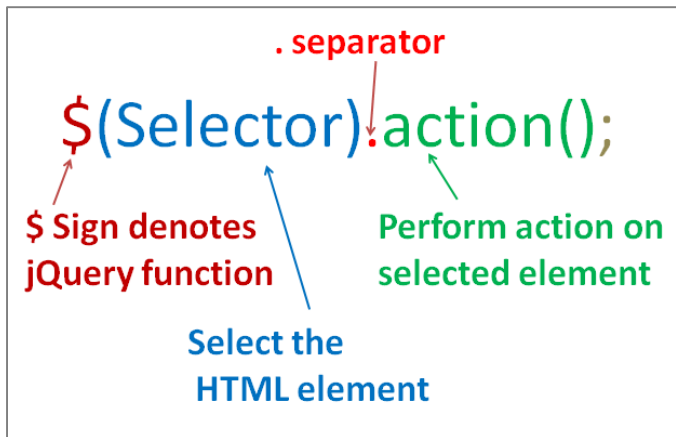


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Selectors in jQuery

(Manipulating HTML elements easily)

Introduction to selectors



- Selectors are the most basic concept of jQuery
- As the name of jQuery implies - **select some elements and do something with them**
- jQuery supports most CSS3 selectors, as well as some non-standard selectors
- Combination of selectors provides an easy way to modify / manipulate HTML elements
- All selectors in jQuery start with the dollar sign and parentheses `$()` followed by action (refer image)

Example usage

```
<script>
$(document).ready(function() {
    /* Select element with id as "first" and modify the text */
    $("#first").text("This is first paragraph");
});
</script>
<body>
    <p id="first"></p>
</body>
```

Element selectors

Selector	Description
<code>\$ ("*")</code>	Selects all elements
<code>\$ ("#id")</code>	Selects an element having identifier as id
<code>\$ (".class-name")</code>	Selects element with class as class-name
<code>\$ ("p:first")</code>	Selects first element in a paragraph
<code>\$ ("ul li:first")</code>	Selects the first element of the first
<code>\$ (" [href] ")</code>	Selects all elements with an href attribute
<code>\$ (":button")</code>	Selects all <button> elements and <input> elements of type="button"
<code>\$ ("tr:even")</code>	Selects all even <tr> elements
<code>\$ ("tr:odd")</code>	Selects all odd <tr> elements
<code>\$ ("div:gt(2) ")</code>	All div elements except the first three



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Event handling using jQuery

(Handling various events)

Event handling using jQuery

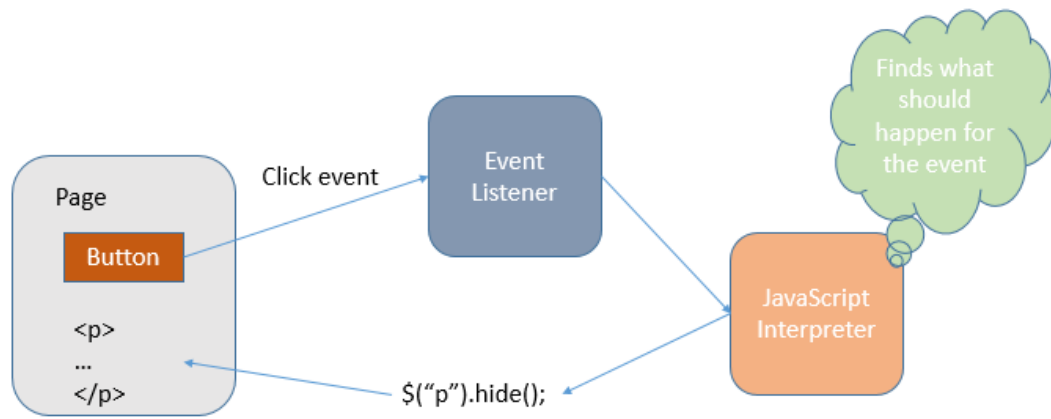
- Events play important role in bringing interactivity with users
- Many peripherals (ex: mouse) can be the source of events
- Upon events appropriate handling need to be done, which is called **Event Handling**
- In vanilla JavaScript event handling was done by implementing methods in **HTML element itself**
- jQuery provides better facility to handle them by **de-coupling from HTML**
- Selectors are combined with actions on a particular event

Event Handling Example

```
<head>
<script>
$(document).ready(function() {
    /* Upon click this method will be called */
    $("p").click(function() {
        /* Hide action is taken */
        $(this).hide();
    });
});
</script>
</head>
<body>
<p>Sample paragraph</p>
</body>
```


Some example events

Selector	Description
Mouse	click dbclick hover mouseenter mouseleave
Keyboard	keypress keyup keydown
Form	focus blur submit
Window (BOM)	load resize



jQuery no-conflict mode

```
<script>
/* Creating alias for jQuery function */
jQuery.noConflict();

jQuery(document).ready(function( $ ) {
    /* You can use the locally-scoped $ here */
    $( "#hidden-para" ).hide();
    console.log("jQuery in no-conflict mode");
});

/* You can call other 3rd party library functions here
 * $(document).thirdPartyFunc();
 * The $ above is 3rd party function reference.
 */
</script>
```

Exercise



- Implement the following event handling on particular elements:
 - Create three paragraphs with individual IDs
 - Upon double clicking in each one of them change their background colour
- Implement the following event handling on tables:
 - Create a table with two columns (student name and marks)
 - Create two buttons (Change odd and Change even)
 - Upon clicking those buttons change their background colour
- Implement the following event handling on input boxes:
 - Create two input boxes (username and password)
 - Upon **blur** event change the background colour to grey

*Thank
you*

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