

Effects jQuery





WSA

Forward looking IT finishing school

Effects in jQuery

(Bringing special effects)

Introduction to effects

- Effects provide more options to operate on an HTML element
- Starting with showing / hiding, jQuery offers multiple options
- It can be primarily used for **animation oriented application**
- Similar to other jQuery options, effects provide easier way to deal with HTML elements
- With lesser amount of lines more functionality can be implemented easily
- Multiple effects can be combined as well using **jQuery effects chaining**

Hide and Show effects

Selector	Description
<code>\$(selector).hide(speed,callback);</code>	Hide the selected element Speed - slow fast milliseconds Callback - will study in later topic
<code>\$(selector).show(speed,callback);</code>	Show the selected element
<code>\$(selector).toggle(speed,callback);</code>	Toggle between hide and show of the selected element



Example usage

```
<script>
$(document).ready(function() {
    /* Show a particular element */
    $("#show").click(function() {
        $("p").show();
    });
});
</script>
```

Fading effects

Selector	Description
<code>\$(selector).fadeIn(speed,callback);</code>	It is used to fade in a hidden elements
<code>\$(selector).fadeOut(speed,callback);</code>	It is used to fade out a visible element
<code>\$(selector).fadeToggle(speed,callback);</code>	Toggles between the fadeIn() and fadeOut() methods
<code>\$(selector).fadeTo(speed,opacity,callback);</code>	Allows fading to a given opacity (value between 0 and 1)



Example usage – fadeIn()

```
<script>
$(document).ready(function() {
    /* Example for fade-in event handling */
    $("#fadeinbutton").click(function() {
        $("#box1").fadeIn();
        $("#box2").fadeIn(3000);
    });
});
</script>
```

Example usage – fadeTo()

```
<script>
$(document).ready(function() {
    $("button").click(function() {
        $("#box1").fadeTo("slow", 0.2);
        $("#box2").fadeTo("slow", 0.5);
        $("#box3").fadeTo("slow", 0.7);
    });
});
</script>
```


Sliding effects

Selector	Description
<code>\$(selector).slideDown(speed,callback);</code>	Slide down an element
<code>\$(selector).slideUp(speed,callback);</code>	Slide up an element
<code>\$(selector).slideToggle(speed,callback);</code>	Toggles between the slideDown() and slideUp() methods



Example usage

```
<script>
$(document).ready(function() {
    $("#flip").click(function() {
        $("#panel").slideDown("slow");
    });
});
</script>
```

Animation effects

Selector & Description

```
$(selector).animate({params}, speed, callback);
```

Params parameter defines the CSS properties to be animated.

```
<script>
$(document).ready(function() {
    $("button").click(function() {
        $("div").animate({left: '250px'});
    });
});
</script>
```

Callback usage in jQuery

- JavaScript is an **interpreted language**, where statements are **executed line by line**
- In case of effects, the next line of code can be run even though the current effect is not finished
- This will create issue in getting the correct output
- In order to prevent this **call-back functions** are provided in jQuery
- Callback function is executed after the current effect is finished



Example usage – Need of call-back functions

```
<script>
$(document).ready(function() {
    $("button").click(function() {
        $("p").hide(1000);
        /* Before hide completes, alert pops up */
        /* This is not a desired behaviour */
        alert("The paragraph is now hidden");
    });
});
</script>
```

Chaining in jQuery

- Multiple jQuery actions/methods can be combined together
- It helps to execute multiple actions using single statement

```
<script>
$(document).ready(function() {
    $("button").click(function() {
        $("#p1").css("color", "red")
                    .slideUp(2000)
                    .slideDown(2000);
    });
});
</script>
```

Exercise



- Implement the box moving animation exercise (JavaScript) using jQuery
- Implement zoom effect by increasing the text and box size upon clicking a button

*Thank
you*

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