

# DOM Manipulation

## Content

```
$("#demo").text();           // returns text content
$("#demo").html();           // returns content, including HTML markup
$("#demo").val();            // returns field value
$("#demo").html('Hey <em>yo</em>'); // sets HTML content
```

## Attributes

```
$("#link").attr("href");           // get an attribute
$("#link").attr("href", 'https://htmlg.com'); // set attribute
$("#link").attr({
  "href" : "https://htmlg.com",      // setting multiple attributes
  "title" : "HTML Editor"
});
$("#link").attr("href", function(i, origValue){
  return origValue + "/help";        // callback function gets and changes the attribute
});
```

## Add

```
$(".demo").prepend("Yo!");          // adds content at the beginning in the selected elements
$(".demo").append("<em>Hey!</em>"); // adds content at the end in the selected elements
$(".demo").before("Cheers");         // adds content before the selected elements
$(".demo").after("<em>Peace</em>");  // adds content after the selected elements
```

## Remove

```
$("#demo").remove();           // removes the selected element
$("#demo").empty();            // removes children
$("div").remove(".c11, .c12"); // removes divs with the listed classes
```

## Classes

```
$("#demo").addClass("big red"); // add class
$("h1, p").removeClass("red"); // remove class
$("#demo").toggleClass("big"); // toggle between adding and removing
```

## CSS

```
$("#demo").css("background-color"); // returns CSS value
$("#demo").css("color", "blue"); // sets CSS rule
$("#demo").css({"color": "blue", "font-size": "20px"}); // sets multiple CSS properties
```

## Dimensions

width, height, innerWidth, innerHeight, outerWidth, outerHeight

*inner* - includes padding

*outer* - includes padding and border

## Events

```
$(".demo").click(function() {
    $(this).hide(200);
});
```

## Mouse

scroll, click, dblclick, mousedown, mouseup, mousemove, mouseover, mouseout, mouseenter, mouseleave, load, resize, scroll, unload, error

## Keyboard

keydown, keypress, keyup

## Form

submit, change, focus, blur

## DOM Element

blur, focus, focusin, focusout, change, select, submit

## Browser

load, resize, scroll, unload, error

## .bind()

```
$(document).ready(function() { // attach a handler to an event for the elements
    $("#demo").bind('blur', function(e) {
        //dom event fired
    });
});
```

## Selectors

```
$("*")           // all elements
$("p.demo")       // <p> elements with class="intro"
$("p:first")      // the first <p> element
$("p span")       // span, descendant of p
$("p > span")    // span, direct child of p
$("p + span")    // span immediately proceeded by a p
$("p ~ span")    // strong element proceeded by p
$("ul li:first") // the first <li> element of the first <ul>
$("ul li:first-child") // the first <li> element of every <ul>
$("ul li:nth-child(3)") // third child
$("[href]")      // any element with an href attribute
$("a[target='_blank']") // <a> elements with a target "_blank" attribute
$("a[target!='_blank']") // <a> elements with a target attribute value other than "_blank"
$(":input")      // all form elements
$(":button")     // <button> and <input> elements of type="button"
$("tr:even")     // even <tr> elements
$("tr:odd")      // odd <tr> elements
$("span:parent") // element which has child element
$("span:contains('demo')") // element containing the specified text
```

## Actions

### \$(selector).action()

```
$(this).hide() // the current element
$("div").hide() // all <div> elements
$(".demo").hide() // all elements with class="demo"
$("#demo").hide() // the element with id="demo"
```

## Basics

### Include

## Download

```
<script src="https://code.jquery.com/jquery-latest.min.js" type="text/javascript"></script>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.0/jquery.min.js"></script>
```

## Syntax

```
$(document).ready(function() {
    $(".demo").click(function() {
        $(this).hide(200);
    });
});
$(function() {
    // Short Document Ready
});
```

## Each

```
$(".demo").each(function() { // parse each .demo element
    document.write($(this).text() + "\n"); // output their text
});
```

## Trigger

```
$("#mylink").trigger("click"); // triggers event on an element
```

## noConflict

```
var jq = $.noConflict(); // avoid conflict with other frameworks also using the dollar sign
jq(document).ready(function() {
    jq("#demo").text("Hello World!");
});
```

# Effects

## Hide / Show

```
$("#demo").hide();           // sets to display: none
$("#demo").show(200);        // shows hidden elemnt with animation (speed)
$("#demo").toggle();         // toggle between show and hide

$( "#element" ).hide( "slow", function() { // hide with callback function
    console.log( "Animation complete." );
});
```

## Fade

### fadeIn, fadeOut, fadeToggle, fadeTo

```
$("#demo").fadeIn();           // fade in a hidden element
$("#demo").fadeOut(300);        // fade out
$("#demo").fadeToggle("slow");  // toggle between fadeIn and fadeOut
$("#demo").fadeTo("slow", 0.25); // fades to 0.25 opacity
```

## Slide

### slideDown, slideUp, slideToggle

```
$("#demo").slideDown();
$("#demo").slideUp("slow");
$("#demo").slideToggle();
```

## Animate

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

$("#div").animate({
    opacity: '0.5',
    left: '200px',
```

```
        height: '200px'
    });
```

## stop() Method

```
$("#demo").stop();
$('#demo').mouseleave(function(event) { // hover end
    $('.tab').stop().animate({ // stop() method
        opacity : '0.5',
        marginTop: '10px'
    }, 500, function() { // animation complete
        $('#demo').removeClass('hovered'); // callback function
    });
});
$('#demo').mouseover(function(event) { // hover begin
    $('.tab').stop().animate({ // stop() method
        opacity : '1',
        marginTop: '0px'
    }, 300, function() { // animation complete
        $('#demo').addClass('hovered'); // callback function
    });
});
```

## Chaining

```
$("#demo").css("backgroundColor", "green").slideUp(500)
```