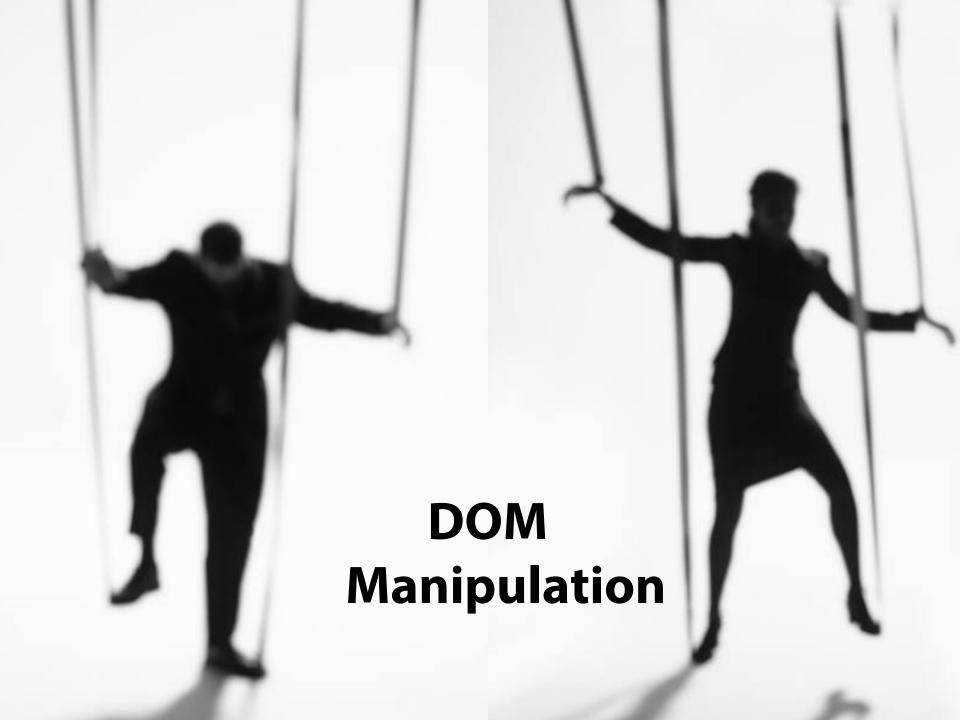
# jQuery-free JavaScript

Native DOM Manipuation

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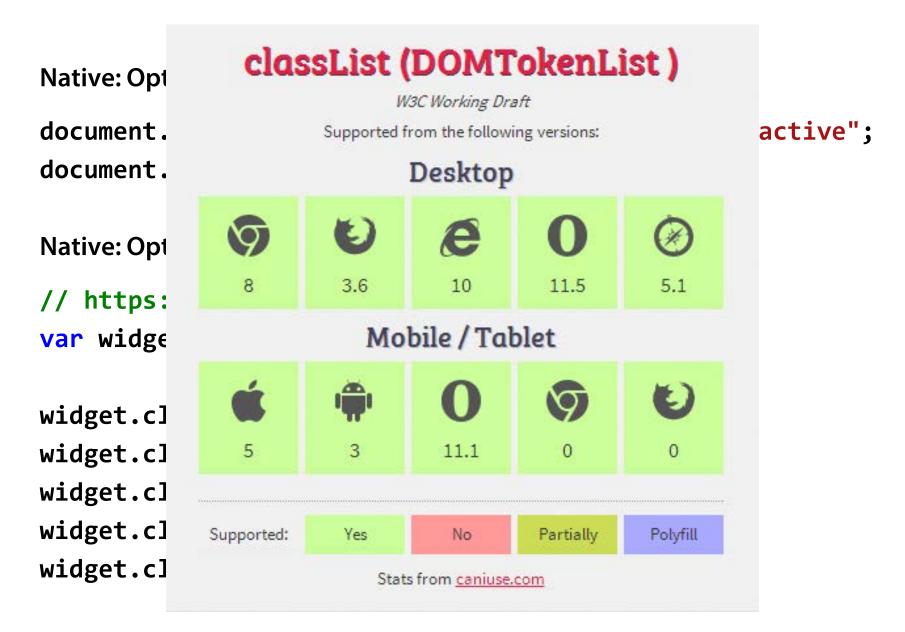




#### Classes

```
jQuery
var widget = $("#widget");
widget.addClass("active");
widget.addClass("active dirty");
widget.removeClass("active");
widget.toggleClass("active");
widget.hasClass("active");
```

#### **Classes**



#### **HTML & Text**

```
jQuery
var widget = $("#widget");
widget.html("<strong>hello</strong>");
                                              // Setter
widget.html;
                                               // Getter
widget.text("goodbye");
                                               // Setter
widget.text;
                                               // Getter
Native
var widget = document.getElementById("widget");
widget.innerHTML = "<strong>hello</strong>"; // Setter
widget.innerHTML;
                                               // Getter
widget.innerText = "goodbye";
                                               // Setter
```

// Getter

widget.innerText;

## **Append & Prepend**

```
jQuery
$("#jquery").prepend("<div>Hello jQuery</div>");
$("#jquery").append("<div>Goodbye jQuery</div>");
Native
var pDiv = document.createElement("div");
pDiv.innerText = "Hello Vanilla";
document.getElementById("vanilla").insertBefore(pDiv);
var aDiv = document.createElement("div");
aDiv.innerText = "Goodbye Vanilla";
document.getElementById("vanilla").appendChild(aDiv);
```

#### Remove

```
jQuery
var widget = $("#widget");
widget.empty();
widget.html("");
widget.remove();
Native
var widget = document.getElementById("widget");
widget.innerHTML = "";
while (widget.lastChild) {
  widget.removeChild(widget.lastChild);
widget.parentNode.removeChild(widget);
```

#### **CSS**

```
jQuery: Option 1
var widget = $("#widget");
widget.css("color", "red");
widget.css("background-color", "blue");
widget.css("font-size", "20px");
jQuery: Option 2
var widget = $("#widget");
widget.css({
    color: "red",
    "background-color": "blue",
    fontSize: "20px",
});
```

#### **CSS**

```
Native: Option 1
var widget = document.getElementById("widget");
widget.style.color = "red";
widget.style.backgroundColor = "blue";
widget.style.fontSize = "20px";
Native: Option 2
var widget = document.getElementById("widget");
widget.style["color"] = "red";
widget.style["backgroundColor"] = "blue";
widget.style["fontSize"] = "20px";
```

#### **CSS**

```
Native: Option 3
var widget = document.getElementById("widget");
function updateStyle(element, styles) {
  for (var style in styles) {
    if (styles.hasOwnProperty(style)) {
      element.style[style] = styles[style];
updateStyle(widget, {
    color: "red",
    backgroundColor: "blue"
});
```

## **Attributes & Properties**

```
jQuery
var search = $("#search"),
  toggle = $("#toggle"),
  anchor = $("#about");
search.attr("placeholder", "Search here...");
search.attr("placeholder");
toggle.prop("checked", true);
toggle.prop("checked");
anchor.attr("href"); //./pages/about.html
anchor.prop("href"); //http://domain.com/pages/about.html
```

### **Attributes & Properties**

#### **Native**

```
var search = document.getElementById("search"),
  toggle = document.getElementById("toggle"),
  anchor = document.getElementById("about");
search.setAttribute("placeholder", "Search here...");
search.getAttribute("placeholder");
toggle.checked = true;
toggle.checked;
anchor.getAttribute("href"); //./pages/about.html
anchor.href; //http://domain.com/pages/about.html
```

#### **Value**

```
jQuery
var search = $("#search");
search.val("Doctor Who"); // Getter
search.val();
                           // Setter
Native
var search = document.getElementById("search");
search.value = "Doctor Who"; // Getter
search.value;
                             // Setter
```

```
// Create innerHeight, innerWidth, height, width, outerHeight and outerWidth methods
         jOuery.each( { Height: "height", Width: "width" }, function( name, type ) {
                 jQuery.each( { padding: "inner" + name, content: type, "": "outer" + name }, function( defaultExtra, funcName ) {
                        // margin is only for outerHeight, outerWidth
                         jQuery.fn[ funcName ] = function( margin, value ) {
                                 var chainable = arguments.length && ( defaultExtra || typeof margin !== "boolean" ),
                                        extra = defaultExtra || ( margin === true || value === true ? "margin" : "border" );
                                return access( this, function( elem, type, value ) {
                                        var doc;
                                        if ( jQuery.isWindow( elem ) ) {
val
                                                // As of 5/8/2012 this will yield incorrect results for Mobile Safari, but there
                                                // isn't a whole lot we can do. See pull request at this URL for discussion:
                                                // https://github.com/jquery/jquery/pull/764
                                                return elem.document.documentElement[ "client" + name ];
bo
                                        }
                                        // Get document width or height
bo
                                        if ( elem.nodeType === 9 ) {
                                                doc = elem.documentElement;
bot
                                                // Either scroll[Width/Height] or offset[Width/Height] or client[Width/Height],
                                                // whichever is greatest
                                                return Math.max(
                                                        elem.body[ "scroll" + name ], doc[ "scroll" + name ],
Na
                                                        elem.body[ "offset" + name ], doc[ "offset" + name ],
                                                        doc[ "client" + name ]
                                                );
va
                                        return value === undefined ?
                                                // Get width or height on the element, requesting but not forcing parseFloat
                                                jQuery.css( elem, type, extra ) :
bot
                                                // Set width or height on the element
                                                jQuery.style( elem, type, value, extra );
bo
                                }, type, chainable ? margin : undefined, chainable, null );
                        };
                });
bot
```

### **DEMO**

- Classes
- Prepend/Append
- Remove
- CSS
- HTML/Text
- Attributes/Properties
- Value
- Height/Width

### **Summary**

```
var $w = $("#widget");
                                var w = document.getElementById("widget");
$w.addClass("active");
                                w.classList.add("active");
$w.html("Hello World");
                                w.innerHTML = "Hello World";
$w.append("<div>Bye</div>");
                                var div = document.createElement("div");
                                div.innerText = "Bye"; w.appendChild(div);
$w.find("div").remove();
                                w.removeChild(div);
$w.css("color", "blue");
                                w.style.color = "blue";
$w.prop("title", "Howdy");
                                w.title = "Howdy";
var input = $("#search");
                                var input = document.getElementById("search");
                                var search = input.value;
var search = input.val();
input.val($w.outerWidth());
                                input.value = widget.offsetWidth;
```