

You Might Not Need jQuery

ajax

json

ie10

```
1 var request = new XMLHttpRequest();
2 request.open('GET', '/my/url', true);
3
4 request.onload = function() {
5     if (this.status >= 200 && this.status < 400) {
6         // Success!
7         var data = JSON.parse(this.response);
8     } else {
9         // We reached our target server, but it returned an error
10
11     }
12 };
13
14 request.onerror = function() {
15     // There was a connection error of some sort
16 };
17
18 request.send();
```

ie8

```
1 var request = new XMLHttpRequest();
2 request.open('GET', '/my/url', true);
3
4 request.onreadystatechange = function() {
5     if (this.readyState === 4) {
6         if (this.status >= 200 && this.status < 400) {
7             // Success!
8             var data = JSON.parse(this.responseText);
9         } else {
10             // Error :(
11         }
12     }
13 };
14
15 request.send();
16 request = null;
```

ie9

```
1 var request = new XMLHttpRequest();
2 request.open('GET', '/my/url', true);
3
4 request.onload = function() {
5     if (request.status >= 200 && request.status < 400) {
6         // Success!
7         var data = JSON.parse(request.responseText);
8     } else {
9         // We reached our target server, but it returned an error
10
11     }
12 };
13
14 request.onerror = function() {
15     // There was a connection error of some sort
16 };
17
18 request.send();
```

jquery

```
1 $.getJSON('/my/url', function(data) {
2
3 });
```

post

ie8

```
1 var request = new XMLHttpRequest();
2 request.open('POST', '/my/url', true);
3 request.setRequestHeader('Content-Type',
4     'application/x-www-form-urlencoded; charset=UTF-8');
5 request.send(data);
```

jquery

```
1 $.ajax({
2     type: 'POST',
3     url: '/my/url',
4     data: data
5 });
```

request

ie10

```
1 var request = new XMLHttpRequest();
2 request.open('GET', '/my/url', true);
3
4 request.onload = function() {
5     if (this.status >= 200 && this.status < 400) {
6         // Success!
7         var resp = this.response;
8     } else {
9         // We reached our target server, but it returned an error
10
11     }
12 };
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14 request.onerror = function() {
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ie8

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2 request.open('GET', '/my/url', true);
3
4 request.onreadystatechange = function() {
5     if (this.readyState === 4) {
6         if (this.status >= 200 && this.status < 400) {
7             // Success!
8             var resp = this.responseText;
9         } else {
10             // Error :(
11         }
12     }
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14
15 request.send();
16 request = null;
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ie9

```
1 var request = new XMLHttpRequest();
```

```

2 request.open('GET', '/my/url', true);
3
4 request.onload = function() {
5     if (request.status >= 200 && request.status < 400) {
6         // Success!
7         var resp = request.responseText;
8     } else {
9         // We reached our target server, but it returned an error
10    }
11 }
12 };
13
14 request.onerror = function() {
15     // There was a connection error of some sort
16 };
17
18 request.send();

```

jquery

```

1 $.ajax({
2     type: 'GET',
3     url: '/my/url',
4     success: function(resp) {
5
6     },
7     error: function() {
8
9     }
10 });

```

__alternatives

request: <https://github.com/ded/Reqwest>

then-request: <https://github.com/then/request>

superagent: <https://github.com/visionmedia/superagent>

effects

fade_in

ie10

```

1 .show {
2   transition: opacity 400ms;
3 }
4 .hide {
5   opacity: 0;
6 }

```

```

1 el.classList.add('show');
2 el.classList.remove('hide');

```

ie8

```

1 function fadeIn(el) {
2   var opacity = 0;
3
4   el.style.opacity = 0;
5   el.style.filter = '';
6
7   var last = +new Date();
8   var tick = function() {
9     opacity += (new Date() - last) / 400;
10    el.style.opacity = opacity;
11    el.style.filter = 'alpha(opacity=' + (100 * opacity)|0 + ')';
12
13    last = +new Date();
14
15    if (opacity < 1) {
16      (window.requestAnimationFrame && requestAnimationFrame(tick))
17      || setTimeout(tick, 16);
18    }
19  };
20  tick();
21 }
22
23 fadeIn(el);

```

ie9

```

1 function fadeIn(el) {
2   el.style.opacity = 0;
3
4   var last = +new Date();
5   var tick = function() {
6     el.style.opacity = +el.style.opacity + (new Date() - last) / 400;

```

```

7     last = +new Date();
8
9     if (+el.style.opacity < 1) {
10        (window.requestAnimationFrame && requestAnimationFrame(tick))
            || setTimeout(tick, 16);
11    }
12 };
13
14 tick();
15 }
16
17 fadeIn(el);

```

jquery

```
1 $(el).fadeIn();
```

hide

ie8

```
1 el.style.display = 'none';
```

jquery

```
1 $(el).hide();
```

show

ie8

```
1 el.style.display = '';
```

jquery

```
1 $(el).show();
```

alternatives

animate.css: <http://daneden.github.io/animate.css/>

move.js: <https://github.com/visionmedia/move.js>

events

off

ie8

```
1 function removeEventListener(el, eventName, handler) {  
2   if (el.removeEventListener)  
3     el.removeEventListener(eventName, handler);  
4   else  
5     el.detachEvent('on' + eventName, handler);  
6 }  
7  
8 removeEventListener(el, eventName, handler);
```

ie9

```
1 el.removeEventListener(eventName, eventHandler);
```

jquery

```
1 $(el).off(eventName, eventHandler);
```

on

ie8

```
1 function addEventListener(el, eventName, handler) {  
2   if (el.addEventListener) {  
3     el.addEventListener(eventName, handler);  
4   } else {  
5     el.attachEvent('on' + eventName, function(){  
6       handler.call(el);  
7     });  
8   }  
9 }  
10  
11 addEventListener(el, eventName, handler);
```

ie9

```
1 el.addEventListener(eventName, eventHandler);
```

jquery

```
1 $(el).on(eventName, eventHandler);
```

ready

ie8

```
1 function ready(fn) {  
2   if (document.readyState !== 'loading'){  
3     fn();  
4   } else if (document.addEventListener) {  
5     document.addEventListener('DOMContentLoaded', fn);  
6   } else {  
7     document.attachEvent('onreadystatechange', function() {  
8       if (document.readyState !== 'loading')  
9         fn();  
10    });  
11  }  
12 }
```

ie9

```
1 function ready(fn) {  
2   if (document.readyState !== 'loading'){  
3     fn();  
4   } else {  
5     document.addEventListener('DOMContentLoaded', fn);  
6   }  
7 }
```

jquery

```
1 $(document).ready(function(){  
2  
3 });
```

trigger_custom

alternatives

```
1 EventEmitter: https://github.com/Wolfy87/EventEmitter  
2 Vine: https://github.com/arextar/Vine  
3 microevent: https://github.com/jeromeetienne/microevent.js
```


ie8

```
1 // Custom events are not natively supported, so you have to hijack a
  random
2 // event.
3 //
4 // Just use jQuery.
```

ie9

```
1 if (window.CustomEvent) {
2   var event = new CustomEvent('my-event', {detail: {some: 'data'}});
3 } else {
4   var event = document.createEvent('CustomEvent');
5   event.initCustomEvent('my-event', true, true, {some: 'data'});
6 }
7
8 el.dispatchEvent(event);
```

jquery

```
1 $(el).trigger('my-event', {some: 'data'});
```

trigger_native

ie8

```
1 if (document.createEvent) {
2   var event = document.createEvent('HTMLEvents');
3   event.initEvent('change', true, false);
4   el.dispatchEvent(event);
5 } else {
6   el.fireEvent('onchange');
7 }
```

ie9

```
1 // For a full list of event types:
  https://developer.mozilla.org/en-US/docs/Web/API/document.createEvent
2 var event = document.createEvent('HTMLEvents');
3 event.initEvent('change', true, false);
4 el.dispatchEvent(event);
```

jquery

```
1 $(el).trigger('change');
```

utils

array__each

ie8

```
1 function forEach(array, fn) {  
2   for (var i = 0; i < array.length; i++)  
3     fn(array[i], i);  
4 }  
5  
6 forEach(array, function(item, i){  
7  
8 });
```

ie9

```
1 array.forEach(function(item, i){  
2  
3 });
```

jquery

```
1 $.each(array, function(i, item){  
2  
3 });
```

bind

ie8

```
1 fn.apply(context, arguments);
```

ie9

```
1 fn.bind(context);
```

jquery

```
1 $.proxy(fn, context);
```

deep_extend

ie8

```
1 var deepExtend = function(out) {  
2   out = out || {};  
3  
4   for (var i = 1; i < arguments.length; i++) {  
5     var obj = arguments[i];  
6  
7     if (!obj)  
8       continue;  
9  
10    for (var key in obj) {  
11      if (obj.hasOwnProperty(key)) {  
12        if (typeof obj[key] === 'object')  
13          deepExtend(out[key], obj[key]);  
14        else  
15          out[key] = obj[key];  
16      }  
17    }  
18  }  
19  
20  return out;  
21 };  
22  
23 deepExtend({}, objA, objB);
```

jquery

```
1 $.extend(true, {}, objA, objB);
```

extend

alternatives

```
1 lo-dash: http://lodash.com/docs#assign  
2 underscore: http://underscorejs.org/#extend  
3 ECMA6: http://www.2ality.com/2014/01/object-assign.html
```

ie8

```
1 var extend = function(out) {
2   out = out || {};
3
4   for (var i = 1; i < arguments.length; i++) {
5     if (!arguments[i])
6       continue;
7
8     for (var key in arguments[i]) {
9       if (arguments[i].hasOwnProperty(key))
10        out[key] = arguments[i][key];
11    }
12  }
13
14  return out;
15 };
16
17 extend({}, objA, objB);
```

jquery

```
1 $.extend({}, objA, objB);
```

index_of

ie8

```
1 function indexOf(array, item) {
2   for (var i = 0; i < array.length; i++) {
3     if (array[i] === item)
4       return i;
5   }
6   return -1;
7 }
8
9 indexOf(array, item);
```

ie9

```
1 array.indexOf(item);
```

jquery

```
1 $.inArray(item, array);
```

is__array

ie8

```
1 isArray = Array.isArray || function(arr) {  
2   return Object.prototype.toString.call(arr) == '[object Array]';  
3 };  
4  
5 isArray(arr);
```

ie9

```
1 Array.isArray(arr);
```

jquery

```
1 $.isArray(arr);
```

map

ie8

```
1 function map(arr, fn) {  
2   var results = [];  
3   for (var i = 0; i < arr.length; i++)  
4     results.push(fn(arr[i], i));  
5   return results;  
6 }  
7  
8 map(array, function(value, index){  
9  
10 });
```

ie9

```
1 array.map(function(value, index){  
2  
3 });
```

jquery

```
1 $.map(array, function(value, index){  
2  
3 });
```

now

ie8

```
1 new Date().getTime();
```

ie9

```
1 Date.now();
```

jquery

```
1 $.now();
```

parse__html

ie8

```
1 var parseHTML = function(str) {  
2   var el = document.createElement('div');  
3   el.innerHTML = str;  
4   return el.children;  
5 };  
6  
7 parseHTML(htmlString);
```

ie9

```
1 var parseHTML = function(str) {  
2   var tmp = document.implementation.createHTMLDocument();  
3   tmp.body.innerHTML = str;  
4   return tmp.body.children;  
5 };  
6  
7 parseHTML(htmlString);
```

jquery

```
1 $.parseHTML(htmlString);
```

parse__json

ie8

```
1 JSON.parse(string);
```

jquery

```
1 $.parseJSON(string);
```

trim

ie8

```
1 string.replace(/^\s+|\s+$/g, '');
```

ie9

```
1 string.trim();
```

jquery

```
1 $.trim(string);
```

type

ie8

```
1 Object.prototype.toString.call(obj).replace(/^\[object (.+)\]$/,  
  '$1').toLowerCase();
```

jquery

```
1 $.type(obj);
```

elements

add__class

ie10

```
1 el.classList.add(className);
```

ie8

```
1 if (el.classList)
2   el.classList.add(className);
3 else
4   el.className += ' ' + className;
```

jquery

```
1 $(el).addClass(className);
```

append

ie8

```
1 parent.appendChild(el);
```

jquery

```
1 $(parent).append(el);
```

after

ie8

```
1 el.insertAdjacentHTML('afterend', htmlString);
```

jquery

```
1 $(el).after(htmlString);
```

before

ie8

```
1 el.insertAdjacentHTML('beforebegin', htmlString);
```

jquery

```
1 $(el).before(htmlString);
```


children

ie8

```
1 var children = [];  
2 for (var i = el.children.length; i--;) {  
3   // Skip comment nodes on IE8  
4   if (el.children[i].nodeType != 8)  
5     children.unshift(el.children[i]);  
6 }
```

ie9

```
1 el.children
```

jquery

```
1 $(el).children();
```

clone

ie8

```
1 el.cloneNode(true);
```

jquery

```
1 $(el).clone();
```

contains

ie8

```
1 el !== child && el.contains(child);
```

jquery

```
1 $.contains(el, child);
```

contains_selector

ie8

```
1 el.querySelector(selector) !== null
```

jquery

```
1 $(el).find(selector).length;
```

each

ie8

```
1 function forEachElement(selector, fn) {  
2   var elements = document.querySelectorAll(selector);  
3   for (var i = 0; i < elements.length; i++)  
4     fn(elements[i], i);  
5 }  
6  
7 forEachElement(selector, function(el, i){  
8  
9 });
```

ie9

```
1 var elements = document.querySelectorAll(selector);  
2 Array.prototype.forEach.call(elements, function(el, i){  
3  
4 });
```

jquery

```
1 $(selector).each(function(i, el){  
2  
3 });
```

empty

ie8

```
1 while(el.firstChild)  
2   el.removeChild(el.firstChild);
```

ie9

```
1 el.innerHTML = '';
```

jquery

```
1 $(el).empty();
```

filter

ie8

```
1 function filter(selector, filterFn) {  
2   var elements = document.querySelectorAll(selector);  
3   var out = [];  
4   for (var i = elements.length; i--;) {  
5     if (filterFn(elements[i]))  
6       out.unshift(elements[i]);  
7   }  
8   return out;  
9 }  
10  
11 filter(selector, filterFn);
```

jquery

```
1 $(selector).filter(filterFn);
```

ie9

```
1 Array.prototype.filter.call(document.querySelectorAll(selector),  
   filterFn);
```

find_children

ie8

```
1 el.querySelectorAll(selector);
```

jquery

```
1 $(el).find(selector);
```

find_elements

alternatives

```
1 query: https://github.com/ded/qquery
2 sizzle: http://sizzlejs.com/
```

ie8

```
1 document.querySelectorAll('.my #awesome selector');
```

jquery

```
1 $(' .my #awesome selector');
```

get_attributes

ie8

```
1 el.getAttribute('tabindex');
```

jquery

```
1 $(el).attr('tabindex');
```

get_html

ie8

```
1 el.innerHTML
```

jquery

```
1 $(el).html();
```

get_outer_html

ie8

```
1 el.outerHTML
```

jquery

```
1 $('<div>').append($(el).clone()).html();
```

get__style

ie8

```
1 // Varies based on the properties being retrieved, some can be  
  retrieved from el.currentStyle  
2 //  
  https://github.com/jonathantneal/Polyfills-for-IE8/blob/master/getComputedStyle.js
```

ie9

```
1 getComputedStyle(el)[ruleName];
```

jquery

```
1 $(el).css(ruleName);
```

get__text

ie8

```
1 el.textContent || el.innerText
```

ie9

```
1 el.textContent
```

jquery

```
1 $(el).text();
```

has__class

ie10

```
1 el.classList.contains(className);
```

ie8

```
1 if (el.classList)
2   el.classList.contains(className);
3 else
4   new RegExp('(\\s| )' + className + '(\\s| )', 'gi').test(el.className);
```

jquery

```
1 $(el).hasClass(className);
```

matches

ie8

```
1 el === otherEl
```

jquery

```
1 $(el).is($(otherEl));
```

matches_selector

ie8

```
1 var matches = function(el, selector) {
2   var _matches = (el.matches || el.matchesSelector ||
3     el.msMatchesSelector || el.mozMatchesSelector ||
4     el.webkitMatchesSelector || el.oMatchesSelector);
5
6   if (_matches) {
7     return _matches.call(el, selector);
8   } else {
9     var nodes = el.parentNode.querySelectorAll(selector);
10    for (var i = nodes.length; i--;) {
11      if (nodes[i] === el)
12        return true;
13    }
14    return false;
15  }
16 matches(el, '.my-class');
```

ie9

```
1 var matches = function(el, selector) {  
2   return (el.matches || el.matchesSelector || el.msMatchesSelector  
        || el.mozMatchesSelector || el.webkitMatchesSelector ||  
        el.oMatchesSelector).call(el, selector);  
3 };  
4  
5 matches(el, '.my-class');
```

jquery

```
1 $(el).is('.my-class');
```

next

ie8

```
1 // nextSibling can include text nodes  
2 function nextElementSibling(el) {  
3   do { el = el.nextSibling; } while ( el && el.nodeType !== 1 );  
4   return el;  
5 }  
6  
7 el.nextElementSibling || nextElementSibling(el);
```

ie9

```
1 el.nextElementSibling
```

jquery

```
1 $(el).next();
```

offset

ie8

```
1 var rect = el.getBoundingClientRect();  
2  
3 {  
4   top: rect.top + document.body.scrollTop,  
5   left: rect.left + document.body.scrollLeft  
6 }
```

jquery

```
1 $(el).offset();
```

offset__parent

ie8

```
1 el.offsetParent || el
```

jquery

```
1 $(el).offsetParent();
```

outer__height

ie8

```
1 el.offsetHeight
```

jquery

```
1 $(el).outerHeight();
```

outer__height__with__margin

ie8

```
1 function outerHeight(el) {  
2   var height = el.offsetHeight;  
3   var style = el.currentStyle || getComputedStyle(el);  
4  
5   height += parseInt(style.marginTop) + parseInt(style.marginBottom);  
6   return height;  
7 }  
8  
9 outerHeight(el);
```


ie9

```
1 function outerHeight(el) {  
2     var height = el.offsetHeight;  
3     var style = getComputedStyle(el);  
4  
5     height += parseInt(style.marginTop) + parseInt(style.marginBottom);  
6     return height;  
7 }  
8  
9 outerHeight(el);
```

jquery

```
1 $(el).outerHeight(true);
```

outer__width

ie8

```
1 el.offsetWidth
```

jquery

```
1 $(el).outerWidth();
```

outer__width__with__margin

ie8

```
1 function outerWidth(el) {  
2     var width = el.offsetWidth;  
3     var style = el.currentStyle || getComputedStyle(el);  
4  
5     width += parseInt(style.marginLeft) + parseInt(style.marginRight);  
6     return width;  
7 }  
8  
9 outerWidth(el);
```

ie9

```
1 function outerWidth(el) {  
2     var width = el.offsetWidth;  
3     var style = getComputedStyle(el);  
4  
5     width += parseInt(style.marginLeft) + parseInt(style.marginRight);  
6     return width;  
7 }  
8  
9 outerWidth(el);
```

jquery

```
1 $(el).outerWidth(true);
```

parent

ie8

```
1 el.parentNode
```

jquery

```
1 $(el).parent();
```

position

ie8

```
1 {left: el.offsetLeft, top: el.offsetTop}
```

jquery

```
1 $(el).position();
```

position_relative_to_viewport

ie8

```
1 el.getBoundingClientRect()
```

jquery

```
1 var offset = el.offset();
2
3 {
4   top: offset.top - document.body.scrollTop,
5   left: offset.left - document.body.scrollLeft
6 }
```

prepend

ie8

```
1 parent.insertBefore(el, parent.firstChild);
```

jquery

```
1 $(parent).prepend(el);
```

prev

ie8

```
1 // prevSibling can include text nodes
2 function previousElementSibling(el) {
3   do { el = el.previousSibling; } while ( el && el.nodeType !== 1 );
4   return el;
5 }
6
7 el.previousElementSibling || previousElementSibling(el);
```

ie9

```
1 el.previousElementSibling
```

jquery

```
1 $(el).prev();
```

remove

ie8

```
1 el.parentNode.removeChild(el);
```

jquery

```
1 $(el).remove();
```

remove__class

ie8

```
1 if (el.classList)
2   el.classList.remove(className);
3 else
4   el.className = el.className.replace(new RegExp('(^\|\\b)' +
    className.split(' ').join('|') + '\\b|$)', 'gi'), ' ');
```

ie10

```
1 el.classList.remove(className);
```

jquery

```
1 $(el).removeClass(className);
```

replace__from__html

ie8

```
1 el.outerHTML = string;
```

jquery

```
1 $(el).replaceWith(string);
```

set__attributes

ie8

```
1 el.setAttribute('tabindex', 3);
```

jquery

```
1 $(el).attr('tabindex', 3);
```

set_html

ie8

```
1 el.innerHTML = string;
```

jquery

```
1 $(el).html(string);
```

set_style

ie8

```
1 // Use a class if possible
2 el.style.borderWidth = '20px';
```

jquery

```
1 $(el).css('border-width', '20px');
```

set_text

ie8

```
1 if (el.textContent !== undefined)
2   el.textContent = string;
3 else
4   el.innerText = string;
```

ie9

```
1 el.textContent = string;
```

jquery

```
1 $(el).text(string);
```

siblings

ie8

```
1 var siblings = Array.prototype.slice.call(el.parentNode.children);
2
3 for (var i = siblings.length; i--;) {
4   if (siblings[i] === el) {
5     siblings.splice(i, 1);
6     break;
7   }
8 }
```

ie9

```
1 Array.prototype.filter.call(el.parentNode.children, function(child){
2   return child !== el;
3 });
```

jquery

```
1 $(el).siblings();
```

toggle_class

ie10

```
1 el.classList.toggle(className);
```

ie8

```
1 if (el.classList) {
2   el.classList.toggle(className);
3 } else {
4   var classes = el.className.split(' ');
5   var existingIndex = -1;
6   for (var i = classes.length; i--;) {
7     if (classes[i] === className)
8       existingIndex = i;
9   }
10
11   if (existingIndex >= 0)
12     classes.splice(existingIndex, 1);
13   else
```

```
14     classes.push(className);
15
16     el.className = classes.join(' ');
17 }
```

ie9

```
1 if (el.classList) {
2     el.classList.toggle(className);
3 } else {
4     var classes = el.className.split(' ');
5     var existingIndex = classes.indexOf(className);
6
7     if (existingIndex >= 0)
8         classes.splice(existingIndex, 1);
9     else
10        classes.push(className);
11
12    el.className = classes.join(' ');
13 }
```

jquery

```
1 $(el).toggleClass(className);
```

__alternatives

bonzo: <https://github.com/ded/bonzo>

\$dom: <https://github.com/julienw/dollardom>