

 무료 전자 책

배우기

jQuery

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1: jQuery

jQuery DOM , , AJAX JavaScript . DOM .

jQuery () <https://code.jquery.com/jquery/> .

1.0		2006-08-26
1.1		2007-01-14
1.2		2007-09-10
1.3	.	2009-01-14
1.4		2010-01-14
1.5	, Ajax	2011 1 31
1.6	attr() val()	2011-05-03
1.7	API : on() off() .	2011-11-03
1.8	, \$(html, props) .	2012-08-09
1.9		2013-01-15
1.10	1.9 2.0	2013-05-24
1.11		2014-01-24
1.12		2016-01-08
2.0	IE 6-8	2013-04-18
2.1		2014-01-24
2.2		2016-01-08
3.0	jQuery	2016-06-09
3.1		2016-07-07

Examples

jQuery ("jQuery" "\$")

jQuery jQuery . jQuery(...) jQuery.foo .

```
$ jQuery (jQuery.noConflict(); - ).
```

HTML -

```
<div id="demo_div" class="demo"></div>
```

div jQuery . jQuery text() . jQuery \$. -

```
jQuery("#demo_div").text("Demo Text!");
```

-

```
$("#demo_div").text("Demo Text!");
```

HTML .

```
<div id="demo_div" class="demo">Demo Text!</div>
```

\$ jQuery jQuery .

jQuery CSS ID . jQuery .

hello.html .

```
<!DOCTYPE html>
<html>
<head>
  <title>Hello, World!</title>
</head>
<body>
  <div>
    <p id="hello">Some random text</p>
  </div>
  <script src="https://code.jquery.com/jquery-2.2.4.min.js"></script>
  <script>
    $(document).ready(function() {
      $('#hello').text('Hello, World!');
    });
  </script>
</body>
</html>
```

JSBin

. Hello, World! Hello, World!

1. jQuery CDN jQuery .

```
<script src="https://code.jquery.com/jquery-2.2.4.min.js"></script>
```

\$, jQuery .

jQuery .

2. jQuery DOM (Document Object Model) "" .

```
// When the `document` is `ready`, execute this function `...`
$(document).ready(function() { ... });

// A commonly used shorthand version (behaves the same as the above)
$(function() { ... });
```

3. DOM jQuery . .

1. `id hello (#hello) . selector jQuery . document.querySelectorAll MDN .`

2. `text () Hello, World! .`

```
#   ↓ - Pass a `selector` to `$` jQuery, returns our element
$('#hello').text('Hello, World!');
#   ↑ - Set the Text on the element
```

[jQuery - Documentation](#) .

HTML

[CDN jQuery](#) jQuery . .

jQuery CDN – Latest Stable Version

Powered by [MaxCDN](#)

jQuery Core

Showing the latest stable release in each major branch. [See all versions of jQuery Core.](#)

jQuery 3.x

- jQuery Core 3.1.0 - [uncompressed](#), [minified](#), [slim](#), [slim minified](#)

jQuery 2.x

- jQuery Core 2.2.4 - [uncompressed](#), [minified](#)

jQuery 1.x

- jQuery Core 1.12.4 - [uncompressed](#), [minified](#)

, jQuery . **jQuery 2.X** .

jQuery CDN - Latest Stable Version

Powered by **MaxCDN**

Code Integration

jQuery

Showing

jQuery

- jQuery

jQuery

- jQuery Core 2.2.4 - [uncompressed](#), [minified](#)

jQuery 1.x

- jQuery Core 1.12.4 - [uncompressed](#), [minified](#)

```
<script
  src="https://code.jquery.com/jquery-2.2.4.min.js"
  integrity="sha256-bbd0581th44r6L6ygljqBJ5bn7tFZZntXxZR"
  crossorigin="anonymous"></script>
```

The `integrity` and `crossorigin` attributes are used for [Subresource Integrity \(SRI\) checking](#). This ensure that resources hosted on third-party servers have not been tampered with. Use of SRI is recommended practice, whenever libraries are loaded from a third-party source. Read more at [srihash.org](#)

HTML `<head>` `<body>` .

async `head` JavaScript . .

```
<!DOCTYPE html>
<html>
  <head>
    <title>Loading jquery-2.2.4</title>
    <script src="https://code.jquery.com/jquery-2.2.4.min.js" async></script>
  </head>
  <body>
    <p>This page is loaded with jquery.</p>
  </body>
</html>
```

async `javascript` . .

jQuery `$` . jQuery . .

`$` :

```
jQuery.noConflict();
```

`$` jQuery . jQuery jQuery .

```
jQuery('#hello').text('Hello, World!');
```

jQuery .

```
var jqy = jQuery.noConflict();
jqy('#hello').text('Hello, World!');
```

jQuery (IIFE) jQuery jQuery .

```
(function($) {
  $(document).ready(function() {
    $('#hello').text('Hello, World!');
  });
})(jQuery);
```

IIFE \$ jQuery .

jQuery \$ DOM .

```
jQuery(function( $ ) { // DOM is ready
  // You're now free to use $ alias
  $('#hello').text('Hello, World!');
});
```

,

- jQuery.noConflict() : \$, jQuery jQuery .
- var jQuery2 = jQuery.noConflict() - \$ jQuery , jQuery jQuery2 jQuery2 .

. jQuery2 jQuery jQuery2 jQuery2 ? ,

```
var jQuery2 = jQuery.noConflict(true)
```

jQuery \$ jQuery .

jQuery .

```
<script src='https://code.jquery.com/jquery-1.12.4.min.js'></script>
<script>
  var jQuery1 = jQuery.noConflict(true);
</script>
<script src='https://code.jquery.com/jquery-3.1.0.min.js'></script>
<script>
  // Here, jQuery1 refers to jQuery 1.12.4 while, $ and jQuery refers to jQuery 3.1.0.
</script>
```

<https://learn.jquery.com/using-jquery-core/avoid-conflicts-other-libraries/>

jQuery jQuery.

jQuery jQuery .

Chrome Developer Tools (F12) jQuery .

```
var j = document.createElement('script');
j.onload = function(){ jQuery.noConflict(); };
```

```
j.src = "https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js";
document.getElementsByTagName('head')[0].appendChild(j);
```

(1.12.4). .

jQuery

jQuery (\$) jQuery() jQuery new . :

```
// Define a local copy of jQuery
jQuery = function( selector, context ) {

    // The jQuery object is actually just the init constructor 'enhanced'
    // Need init if jQuery is called (just allow error to be thrown if not included)
    return new jQuery.fn.init( selector, context );
}
```

jQuery .fn jQuery new .

(jQuery API (: .each , children , filter)) jQuery . nothing, undefined , null). .

id jQuery DOM ().

```
var $div = $("#myDiv");//populate the jQuery object with the result of the id selector
var div = $div[0];//access array-like structure of jQuery object to get the DOM Element
```

jQuery

jQuery .

```
<script src="https://code.jquery.com/jquery-3.1.1.min.js"></script>
<script src="some-plugin.min.js"></script>
```

jQuery , jQuery () jQuery.noConflict(true) ; jQuery .

```
<script src="https://code.jquery.com/jquery-1.7.0.min.js"></script>
<script src="plugin-needs-1.7.min.js"></script>
<script>
// save reference to jQuery v1.7.0
var $oldjq = jQuery.noConflict(true);
</script>
<script src="https://code.jquery.com/jquery-3.1.1.min.js"></script>
<script src="newer-plugin.min.js"></script>
```

jQuery .

```
<script>
// newer jQuery document ready
jQuery(function($){
    // "$" refers to the newer version of jQuery
    // inside of this function
```

```
// initialize newer plugin
$('#new').newerPlugin();
});

// older jQuery document ready
$(function(){
  // "$" refers to the older version of jQuery
  // inside of this function

  // initialize plugin needing older jQuery
  $('#old').olderPlugin();
});
</script>
```

, jQuery .

jQuery : <https://riptutorial.com/ko/jquery/topic/211/jquery->

2: CSS

- `.css (cssProperty) // CSS`
- `.css ([cssProperty, ...]) // cssProperties`
- `.css (cssProperty, value) //`
- `.css ({cssProperty : value, ...}) //`
- `.css (cssProperty, function) // cssProperty .`

`(: "auto", "%", "vw"), .css() px`

```
.myElement{ width: 20%; }
```

```
var width = $(".myElement").css("width"); // "123px"
```

CSS String camelCase .

```
"margin-bottom"  
marginBottom
```

. jQuery px .

```
.css(fontSize: "1em")  
.css(fontSize: "16px")  
.css(fontSize: 16) // px will be used
```

jQuery 3 .show() .hide() .

jQuery .show() .hide() .

```
display: none .show() . display: none .show() .slideDown() . jQuery 3.0  
display: none .fadeIn() - . "" display: none . jQuery .addClass()  
.removeClass() . .ready() .hide() . .css("display", "block") ( ) .
```

Examples

CSS

:

```
$('#target-element').css('color', '#000000');
```

:

```
$('#target-element').css({  
  'color': '#000000',
```



```
'font-size': '12pt',
'float': 'left',
});
```

CSS

CSS `.css(propertyName)` .

```
var color = $('#element').css('color');
var fontSize = $('#element').css('font-size');
```

/

CSS `.css()` `+=` `-=` .

```
// Increment using the += syntax
$("#target-element").css("font-size", "+=10");

// You can also specify the unit to increment by
$("#target-element").css("width", "+=100pt");
$("#target-element").css("top", "+=30px");
$("#target-element").css("left", "+=3em");

// Decrementing is done by using the -= syntax
$("#target-element").css("height", "-=50pt");
```

CSS -

CSS Getter

`.css()` **getter** DOM .

```
// Rendered width in px as a string. ex: `150px`
// Notice the `as a string` designation - if you require a true integer,
// refer to `$.width()` method
$("#body").css("width");
```

. **CSS** `$("#selector")` DOM . **CSS** undefined .

CSS getter .

```
$("#body").css(["animation", "width"]);
```

,

```
Object {animation: "none 0s ease 0s 1 normal none running", width: "529px"}
```

CSS

`.css()` **setter** DOM .

```
$("#selector").css("width", 500);
```

`$("#selector") width 500px` **jQuery** .

`.css()` `.css()` **CSS Object** .

```
$("#body").css({"height": "100px", width:100, "padding-top":40, paddingBottom:"2em"});
```

setter DOM style (`!important`).

CSS : <https://riptutorial.com/ko/jquery/topic/2732/css->

3: DOM

Examples

DOM

jQuery (\$) .

```
var myLink = $('<a href="http://stackexchange.com"></a>');
```

.

```
var myLink = $('<a>', { 'href': 'http://stackexchange.com' });
```

'<a>' -> DOM . . a .

{ 'href': 'http://stackexchange.com' } -> / JavaScript .

<> 'name': 'value' (: <a name:value>

HTML .

```
<p class="small-paragraph">
  This is a small <a href="https://en.wikipedia.org/wiki/Paragraph">paragraph</a>
  with a <a class="trusted" href="http://stackexchange.com">link</a> inside.
</p>
```

jQuery DOM , hasClass() , addClass() , removeClass() toggleClass() . class .

```
$('.p').hasClass('small-paragraph'); // true
$('.p').hasClass('large-paragraph'); // false

// Add a class to all links within paragraphs
$('.p a').addClass('untrusted-link-in-paragraph');

// Remove the class from a.trusted
$('.a.trusted.untrusted-link-in-paragraph')
  .removeClass('untrusted-link-in-paragraph')
  .addClass('trusted-link-in-paragraph');
```

.toggleClass() .

```
$(".small-paragraph").toggleClass("pretty");
```

true true : \$(".small-paragraph").hasClass("pretty")

toggleClass .

```
if($(".small-paragraph").hasClass("pretty")){
    $(".small-paragraph").removeClass("pretty");}
else {
    $(".small-paragraph").addClass("pretty"); }
```

```
$(".small-paragraph").toggleClass("pretty cool");
```

/ :

```
$(".small-paragraph").toggleClass("pretty",true); //cannot be truthy/falsey
$(".small-paragraph").toggleClass("pretty",false);
```

()

```
$( "div.surface" ).toggleClass(function() {
    if ( $( this ).parent().is( ".water" ) ) {
        return "wet";
    } else {
        return "dry";
    }
});
```

:

```
// functions to use in examples
function stringContains(myString, mySubString) {
    return myString.indexOf(mySubString) !== -1;
}
function isOdd(num) { return num % 2;}
var showClass = true; //we want to add the class
```

:

/

```
$( "div.gridrow" ).toggleClass(function(index,oldClasses, false), showClass ) {
    showClass
    if ( isOdd(index) ) {
        return "wet";
    } else {
        return "dry";
    }
});
```

toggleClass ,

```
<div class="grid">
  <div class="gridrow">row</div>
  <div class="gridrow">row</div>
  <div class="gridrow">row</div>
```

```

<div class="gridrow">row</div>
<div class="gridrow">row</div>
<div class="gridrow gridfooter">row but I am footer!</div>
</div>

```

:

```

function isOdd(num) {
    return num % 2;
}

function stringContains(myString, mySubString) {
    return myString.indexOf(mySubString) !== -1;
}

var showClass = true; //we want to add the class

```

gridrow /

```

$("div.gridrow").toggleClass(function(index, oldClasses, showThisClass) {
    if (isOdd(index)) {
        return "odd";
    } else {
        return "even";
    }
    return oldClasses;
}, showClass);

```

gridfooter / .

```

$("div.gridrow").toggleClass(function(index, oldClasses, showThisClass) {
    var isFooter = stringContains(oldClasses, "gridfooter");
    if (isFooter) {
        oldClasses = oldClasses.replace('even', ' ').replace('odd', ' ');
        $(this).toggleClass("even odd", false);
    }
    return oldClasses;
}, showClass);

```

. gridfooter / . **OLD** . else return oldClasses; gridfooter gridfooter . ().

```

$("div.gridrow").toggleClass(function(index, oldClasses, showThisClass) {
    var isFooter = stringContains(oldClasses, "gridfooter");
    if (!isFooter) {
        if (isOdd(index)) {
            return "oddLight";
        } else {
            return "evenLight";
        }
    } else return oldClasses;
}, showClass);

```

API

jQuery DOM .

`.empty ()` .

.

```
<div id="content">
  <div>Some text</div>
</div>
```

```
$('#content').empty(); $('#content').empty(); div . $('#content').html('');
$('#content').html('');
```

`.closest ()` .

```
<tr id="row_1">
  <td><button type="button" class="delete">Delete</button>
</tr>
```

.

```
$('.delete').click(function() {
  $(this).closest('tr');
});
```

delete `.click ()` \$(this) .

Delete id .

```
$('.delete').click(function() {
  var $row = $(this).closest('tr');
  var id = $row.attr('id');
});
```

jQuery `$ ()` .

`.closest ()` `.parents ()` .

```
$('.delete').click(function() {
  var $row = $(this).parents('tr');
  var id = $row.attr('id');
});
```

`.parent ()` .

```
$('.delete').click(function() {
  var $row = $(this).parent().parent();
  var id = $row.attr('id');
});
```

`.parent ()` DOM . `span` jQuery .

`.html ()`

HTML . HTML .

```
<div class="row">
  <div class="col-md-12">
    <div id="information">
      <p>Old message</p>
    </div>
  </div>
</div>
```

.html() . .

```
$("#information").html("<p>This is the new alert!</p>");
```

(DOM) .

- 1.
- 2.
3. DOM .

```
<ul id='my-color-list'>
  <li class="disabled">Red</li>
  <li>Green</li>
  <li class="disabled">Purple</li>
  <li>Orange</li>
</ul>
```

- 1...children() .find()

Array .

```
var $myColorList = $('#my-color-list');

// Elements one layer deep get .children(), any deeper go with .find()
var $colors = $myColorList.children('li');
```

2. - Array.prototype.sort()

HTML () .

```
/**
 * Bind $colors to the sort method so we don't have to travel up
 * all these properties more than once.
 */
var sortList = Array.prototype.sort.bind($colors);

sortList(function ( a, b ) {

  // Cache inner content from the first element (a) and the next sibling (b)
  var aText = a.innerHTML;
  var bText = b.innerHTML;

  // Returning -1 will place element `a` before element `b`
  if ( aText < bText ) {
```

```

        return -1;
    }

    // Returning 1 will do the opposite
    if ( aText > bText ) {
        return 1;
    }

    // Returning 0 leaves them as-is
    return 0;
});

```

3. - .append()

.append() **DOM** .

```

// Put it right back where we got it
$myColorList.append($colors);

```

```

<!-- previous HTML above -->
<button type='button' id='btn-sort'>
    Sort
</button>

```

```

var ascending = true;

```

DOM `sortList()` DOM .

```

var $myColorList = $('#my-color-list');
var $colors = $myColorList.children('li');
var sortList = Array.prototype.sort.bind($colors);

```

doSort() ■

```

// Put the sortList() and detach/append calls in this portable little thing
var doSort = function ( ascending ) {

    sortList(function ( a, b ) {
        // ...
    });

    $myColorList.append($colors);
};

```

```

$('#btn-sort')

```



```
$('#btn-sort').on('click', function () {
    // Run the sort and pass in the direction value
    doSort(ascending);

    // Toggle direction and save
    ascending = !ascending;
});
```

```
var ascending = true;

var $myColorList = $('#my-color-list');
var $colors = $myColorList.children('li');
var sortList = Array.prototype.sort.bind($colors);

var doSort = function ( ascending ) {

    sortList(function ( a, b ) {

        var aText = a.innerHTML;
        var bText = b.innerHTML;

        if ( aText < bText ) {
            return ascending ? -1 : 1;
        }

        if ( aText > bText ) {
            return ascending ? 1 : -1;
        }

        return 0;
    });

    $myColorList.append($colors);
};

$('#btn-sort').on('click', function () {
    doSort(ascending);
    ascending = !ascending;
});
```

()

```
// ...

var doSort = function ( ascending ) {

    sortList(function ( a, b ) {

        // ...initial sorting...

    }).sort(function ( a, b ) {

        // We take the returned items and sort them once more
        var aClass = a.className;
```

```
var bClass = b.className;

// Let's group the disabled items together and put them at the end

/**
 * If the two elements being compared have the same class
 * then there's no need to move anything.
 */
if ( aClass !== bClass ) {
    return aClass === 'disabled' ? 1 : -1;
}
return 0;
});

// And finalize with re-insert
$myColorList.append($colors);
};

// ...
```

?

[MDN - Array.prototype.sort \(\)](#)

DOM : <https://riptutorial.com/ko/jquery/topic/512/dom->

4: DOM

Examples

`children()` .

```
<div class="parent">
  <h2>A headline</h2>
  <p>Lorem ipsum dolor sit amet...</p>
  <p>Praesent quis dolor turpis...</p>
</div>
```

`.parent` .

```
$('.parent').children().css("color", "green");
```

selector .

```
// Only get "p" children
$('.parent').children("p").css("color", "green");
```

jQuery

jQuery .

DOM .

```
<div class="container">
  <div class="red one">RED 1 Info</div>
  <div class="red two">RED 2 Info</div>
  <div class="red three">RED 3 Info</div>
</div>
```

div red :

```
$(".red").each(function(key, ele){
  var text = $(ele).text();
  console.log(text);
});
```

:key iterating div.red .ele HTML \$() jQuery() \$(ele) jQuery ., css() hide() jQuery .

`.siblings()` .

```
<ul class="menu">
```

```
<li class="selected">Home</li>
<li>Blog</li>
<li>About</li>
</ul>
```

selected .

```
$(".menu").on("click", "li", function () {
    $(this).addClass("selected");
    $(this).siblings().removeClass("selected");
});
```

selector .

```
$(this).siblings("li").removeClass("selected");
```

closest ()

DOM selector .

HTML

```
<div id="abc" class="row">
  <div id="xyz" class="row">
  </div>
  <p id="origin">
    Hello
  </p>
</div>
```

jQuery

```
var target = $('#origin').closest('.row');
console.log("Closest row:", target.attr('id') );
```

```
var target2 = $('#origin').closest('p');
console.log("Closest p:", target2.attr('id') );
```

```
"Closest row: abc"
"Closest p: origin"
```

first () : .

HTML

```
<div class='.firstExample'>
  <p>This is first paragraph in a div.</p>
  <p>This is second paragraph in a div.</p>
  <p>This is third paragraph in a div.</p>
  <p>This is fourth paragraph in a div.</p>
  <p>This is fifth paragraph in a div.</p>
</div>
```

JQuery

```
var firstParagraph = $("div p").first();
console.log("First paragraph:", firstParagraph.text());
```

:

```
First paragraph: This is first paragraph in a div.
```

`.next()` .

```
<ul>
  <li>Mark</li>
  <li class="anna">Anna</li>
  <li>Paul</li>
</ul>
```

`"Anna" "Paul" .next()` .

```
// "Paul" now has green text
$(".anna").next().css("color", "green");
```

selector , .

```
// Next element is a "li", "Paul" now has green text
$(".anna").next("li").css("color", "green");
```

selector .

```
// Next element is not a ".mark", nothing will be done in this case
$(".anna").next(".mark").css("color", "green");
```

`.prev()` .

```
<ul>
  <li>Mark</li>
  <li class="anna">Anna</li>
  <li>Paul</li>
</ul>
```

`"Anna" "Mark" .prev()` .

```
// "Mark" now has green text
$(".anna").prev().css("color", "green");
```

selector .

```
// Previous element is a "li", "Mark" now has green text
$(".anna").prev("li").css("color", "green");
```

selector .

```
// Previous element is not a ".paul", nothing will be done in this case
$(".anna").prev(".paul").css("color", "green");
```

.filter() .

. , . .

HTML

HTML.

```
<ul>
  <li class="zero">Zero</li>
  <li class="one">One</li>
  <li class="two">Two</li>
  <li class="three">Three</li>
</ul>
```

.

```
$(".li").filter(":even").css("color", "green"); // Color even elements green
$(".li").filter(".one").css("font-weight", "bold"); // Make ".one" bold
```

.

.true .

```
var selection = $(".li").filter(function (index, element) {
  // "index" is the position of the element
  // "element" is the same as "this"
  return $(this).hasClass("two");
});
selection.css("color", "green"); // ".two" will be colored green
```

DOM . DOM .

```
var three = document.getElementsByClassName("three");
$(".li").filter(three).css("color", "green");
```

. .

```
var elems = $(".one, .three");
$(".li").filter(elems).css("color", "green");
```

find ()

.find () DOM jQuery .

HTML

```
<div class="parent">
  <div class="children" name="first">
    <ul>
      <li>A1</li>
      <li>A2</li>
      <li>A3</li>
    </ul>
  </div>
  <div class="children" name="second">
    <ul>
      <li>B1</li>
      <li>B2</li>
      <li>B3</li>
    </ul>
  </div>
</div>
```

jQuery

```
$('.parent').find('.children[name="second"] ul li').css('font-weight','bold');
```

- A1
- A2
- A3

- **B1**
- **B2**
- **B3**

DOM : <https://riptutorial.com/ko/jquery/topic/1189/dom->

5: jQuery

jQuery . . .

Examples

" " . Deferred Deferred :

```
function waitPromise(milliseconds) {  
  
    // Create a new Deferred object using the jQuery static method  
    var def = $.Deferred();  
  
    // Do some asynchronous work - in this case a simple timer  
    setTimeout(function() {  
  
        // Work completed... resolve the deferred, so it's promise will proceed  
        def.resolve();  
    }, milliseconds);  
  
    // Immediately return a "promise to proceed when the wait time ends"  
    return def.promise();  
}
```

:

```
waitPromise(2000).then(function() {  
    console.log("I have waited long enough");  
});
```

. . .

```
function First() {  
    console.log("Calling Function First");  
    return $.get("/ajax/GetFunction/First");  
}  
  
function Second() {  
    console.log("Calling Function Second");  
    return $.get("/ajax/GetFunction/Second");  
}  
  
function Third() {  
    console.log("Calling Function Third");  
    return $.get("/ajax/GetFunction/Third");  
}  
  
function log(results) {  
    console.log("Result from previous AJAX call: " + results.data);  
}  
  
First().done(log)  
    .then(Second).done(log)  
    .then(Third).done(log);
```


jQuery ajax () , VS .done () , .fail ()

success and Error : Ajax .

.

:

```
$.ajax({
  url: 'URL',
  type: 'POST',
  data: yourData,
  datatype: 'json',
  success: function (data) { successFunction(data); },
  error: function (jqXHR, textStatus, errorThrown) { errorFunction(); }
});
```

.done () .fail () :

.ajax (). done (function (data, textStatus, jqXHR) {}); jQuery 1.8 .success () . success .

.ajax (). fail (function (jqXHR, textStatus, errorThrown) {}); jQuery 1.8 method .error () . .

:

```
$.ajax({
  url: 'URL',
  type: 'POST',
  data: yourData,
  datatype: 'json'
})
.done(function (data) { successFunction(data); })
.fail(function (jqXHR, textStatus, errorThrown) { errorFunction(); });
```

.

.

```
var deferred = new $.Deferred();
var d1= deferred.promise({
  prop: "value"
});
var d2= $("div").promise();
var d3= $("div").hide(1000).promise();

console.log(d1.state()); // "pending"
console.log(d2.state()); // "resolved"
console.log(d3.state()); // "pending"
```

jQuery : <https://riptutorial.com/ko/jquery/topic/8308/jquery---->

6: jQuery.animate ()

1. () .animate ({}, {})

		CSS	
	(: 400)		.
	(: swing)		.
	.	.	.
	.		
	.		
	.		
	.		
	.		
specialEasing	styles	CSS	easing
	.		

Examples

Google . JQuery fadeIn(), hide(), slideDown() .

Jquery .animate() . CSS . CSS width:200; DOM 50. animate CSS 150 .

```

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.1.1/jquery.min.js"></script>
<script>
    $("#btn1").click(function(){
        $("#box").animate({width: "200px"});
    });
</script>

<button id="btn1">Animate Width</button>
<div id="box" style="background:#98bf21;height:100px;width:100px;margin:6px;"></div>

```

.animate() CSS .

```

backgroundPositionX, backgroundPositionY, borderWidth, borderBottomWidth, borderLeftWidth,

```

```
borderRightWidth, borderTopWidth, borderSpacing, margin, marginBottom, marginLeft,
marginRight, marginTop, outlineWidth, padding, paddingBottom, paddingLeft, paddingRight,
paddingTop, height, width, maxHeight, maxWidth, minHeight, minWidth, fontSize, bottom, left,
right, top, letterSpacing, wordSpacing, lineHeight, textIndent,
```

.animate() .

```
milliseconds (Ex: 100, 1000, 5000, etc.),
"slow",
"fast"
```

.animate() .



.

: 1 :

```
$( "#book" ).animate({
  width: [ "toggle", "swing" ],
  height: [ "toggle", "swing" ],
  opacity: "toggle"
}, 5000, "linear", function() {
  $( this ).after( "<div>Animation complete.</div>" );
});
```

: 2 :

```
$("#box").animate({
  height: "300px",
  width: "300px"
}, {
  duration: 5000,
  easing: "linear",
  complete: function(){
    $(this).after("<p>Animation is complete!</p>");
  }
});
```

jQuery.animate() : <https://riptutorial.com/ko/jquery/topic/5064/jquery-animate---->

7:

Examples

```
// array
var arr = [
  'one',
  'two',
  'three',
  'four'
];
$.each(arr, function (index, value) {
  console.log(value);

  // Will stop running after "three"
  return (value !== 'three');
});
// Outputs: one two three
```

jQuery

HTML :

```
<ul>
  <li>Mango</li>
  <li>Book</li>
</ul>
```

:

```
$( "li" ).each(function( index ) {
  console.log( index + ": " + $( this ).text() );
});
```

.

0:

1:

: [https://riptutorial.com/ko/jquery/topic/10853/-](https://riptutorial.com/ko/jquery/topic/10853/)

8:

Examples

?

jQuery jQuery(function(\$){ ... }); DOM .

```

<script type="text/javascript">
  jQuery(function($){
    // this will set the div's text to "Hello".
    $("#myDiv").text("Hello");
  });
</script>

<div id="myDiv">Text</div>

```

jQuery (JavaScript) DOM .

```

<script type="text/javascript">
  // no element with id="myDiv" exists at this point, so $("#myDiv") is an
  // empty selection, and this will have no effect
  $("#myDiv").text("Hello");
</script>

<div id="myDiv">Text</div>

```

.ready() jQuery . JS jQuery \$. \$.noConflict(); \$.noConflict(); - \$ jQuery .
 .ready() jQuery .

```

$.noConflict();

jQuery( document ).ready(function( $ ) {
  // Here we can use '$' as jQuery alias without it conflicting with other
  // libraries that use the same namespace
  $('body').append('<div>Hello</div>')
});

jQuery( document ).ready(function( jq ) {
  // Here we use a custom jQuery alias 'jq'
  jq('body').append('<div>Hello</div>')
});

```

jQuery \$(document).ready HTML DOM (Document Object Model) JavaScript .

jQuery 2.2.3

. .

```

$(function() {
  // code

```

```
});

$.ready(function() {
  // code
});

$(document).ready(function() {
  // code
});
```

\$ jQuery .

```
jQuery(function() {
  // code
});
```

jQuery 3.0

jQuery 3.0 .

```
jQuery(function($) {
  // Run when document is ready
  // $ (first argument) will be internal reference to jQuery
  // Never rely on $ being a reference to jQuery in the global namespace
});
```

jQuery 3.0 .

jQuery 3.0 ., ' ' .

```
$(function() {
  console.log("inside handler");
});
console.log("outside handler");
```

>

>

\$(document).ready () \$(window).load ().

\$(window).load() **jQuery 1.8** **jQuery 3.0** . . jQuery .

.load() () . .:

- .
- src src WebKit .
- DOM .
- .

load() :

```
$(document).ready() DOM .HTML . . $(window).load() .
```

```
$(document).ready(function() {  
  console.log($("#my_large_image").height()); // may be 0 because the image isn't available  
});  
  
$(window).load(function() {  
  console.log($("#my_large_image").height()); // will be correct  
});
```

ready () DOM

```
$(document).ready() :
```

1. jQuery

```
$(document).ready(function() {  
  $("button").click(function() {  
    // Code for the click function  
  });  
});
```

2. jQuery .

```
jQuery(function($) {  
  // set the value of an element.  
  $("#myElement").val("Hello");  
});
```

3. DOM

```
: div
```

```
$(document).ready(function() {  
  $("#toggleDiv").hide();  
  $("button").click(function() {  
    $("#toggleDiv").show();  
  });  
});
```

jQuery (fn)

```
300 . </body> .
```

```
<body>  
  <span id="greeting"></span> world!  
  <script>  
    $("#greeting").text("Hello");  
  </script>  
</body>
```

```
<head>
```

```
<script>
  jQuery(function($) {
    $("#greeting").text("Hello");
  });
</script>
</head>
<body>
  <span id="greeting"></span> world!
</body>
```

</body> span .

: <https://riptutorial.com/ko/jquery/topic/500/-->

9:

jQuery HTML DOM () . ID, , , , HTML . CSS .

- : .
- ID : #id
- : .className
- : [attributeName]
- [attributeName = 'value'] : [attributeName = 'value']
- ^= : [attributeName ^= 'value']
- \$= : [attributeName \$= 'value']
- *= : [attributeName *= 'value']
- : :pseudo-selector
- :
- : >
- : +
- : ~
- : , ()

class id attribute selectors

! " # \$ % & ' () * + , . / : ; < = > ? @ [\] ^ { | } ~

\\ .

.

```
<span id="temp.foobar"><span>
```

,

```
$('#temp\\.foobar')
```

Examples

jQuery .

-
-
-
-
-
-
-

CSS jQuery ().

HTML .

```
<a href="index.html"></a> <!-- 1 -->
<a id="second-link"></a> <!-- 2 -->
<a class="example"></a> <!-- 3 -->
<a class="example" href="about.html"></a> <!-- 4 -->
<span class="example"></span> <!-- 5 -->
```

:

jQuery 1, 2, 3 4 <a> .

```
$("#a")
```

jQuery 3, 4 5 example (a) .

```
$(".example")
```

ID

jQuery ID (2) .

```
$("#second-link")
```

jQuery 1 4 href .

```
$("[href]")
```

jQuery href index.html . 1.

```
$("[href='index.html']")
```

()

jQuery 1, <a> ie . second-link 1 eq(1) (0 , !).

```
$("#a:eq(1)")
```

```
:not(:eq())
```

<a> ., example 1

```
$("#a").not(":eq(0)")
```

```
:not()
```

example 1 2 <a> .

```
$("#a:not(.example)")
```

:first-child, :last-child, :first-of-type, :last-of-type jQuery .

jQuery <a> :number 1 .

```
$("#a:first-of-type")
```

jQuery

jQuery . . , .

```
$("#a.class1.class2.class3#someID[attr1][attr2='something'][attr3='something']:first-of-type:first-child")
```

<a> .

- :class1, class2, and class3
- **ID** : someID
- attr1 : attr1
- attr2 something, attr3 something
- first-child first-of-type

```
$("#a, .class1, #someID")
```

- <a>
- class1
- **id** #someID

jQuery CSS .

- .
- **a** >
- +
- ~

(,) . * selector .

```
$('#wrapper *') // Select all elements inside #wrapper element
```

DOM

```
<ul class="parentUl">
  <li> Level 1
    <ul class="childUl">
      <li>Level 1-1 <span> Item - 1 </span></li>
```

```

        <li>Level 1-1 <span> Item - 2 </span></li>
    </ul>
</li>
<li> Level 2
    <ul class="childUl">
        <li>Level 2-1 <span> Item - 1 </span></li>
        <li>Level 2-1 <span> Item - 1 </span></li>
    </ul>
</li>
</ul>

```

`` - `parentUl` (``),

1. `$('.parent child')`

```
>> $('ul.parentUl li')
```

.

2. `> - $('.parent > child')`

```
>> $('ul.parentUl > li')
```

().

3. `- $('.child', 'parent')`

```
>> $('li', 'ul.parentUl')
```

1..

4. `find() - $('.parent').find('child')`

```
>> $('ul.parentUl').find('li')
```

1..

5. `children() - $('.parent').find('child')`

```
>> $('ul.parentUl').children('li')
```

2..

`:` `" "`
`:` `,`

`` `` `` .

```
$('.ul, li, span')
```

```
: ""()
```

```
parentUl <ul> .
```

```
$('.ul.parentUl')
```

```
: "+"
```

```
<li> <li> .
```

```
$('.li + li')
```

```
: "~"
```

```
<li> <li> .
```

```
$('.li ~ li')
```

jQuery Selector jQuery . . .

```
$(".*") // All elements
$(".div") // All <div> elements
$(".blue") // All elements with class=blue
$(".blue.red") // All elements with class=blue AND class=red
$(".blue,.red") // All elements with class=blue OR class=red
$("#headline") // The (first) element with id=headline
$("[href]") // All elements with an href attribute
$("[href='example.com']") // All elements with href=example.com
```

```
$(".div span") // All <span>s that are descendants of a <div>
$(".div > span") // All <span>s that are a direct child of a <div>
$(".a ~ span") // All <span>s that are siblings following an <a>
$(".a + span") // All <span>s that are immediately after an <a>
```

jQuery DOM . . .

```
var nav = $('#navigation');
nav.show();
```

```
$('#navigation').show();
```

```
<div class="parent">
  <div class="child">Child 1</div>
  <div class="child">Child 2</div>
```

```

</div>

<script>
  var children = $('.child');
  var firstChildText = children[0].text();
  console.log(firstChildText);

  // output: "Child 1"
</script>

```

: `DOM.child` `DOM` .

```

<div class="parent"></div>

<script>
  var parent = $('.parent');
  var children = $('.child');
  console.log(children);

  // output: []

  parent.append('<div class="child">Child 1</div>');
  children = $('.child');
  console.log(children[0].text());

  // output: "Child 1"
</script>

```

DOM / .

: `$` `jQuery` .

```

var $nav = $('#navigation');
$nav.show();

```

DOM

jQuery `DOM` . `DOM` jQuery `jQuery` .

jQuery `nodeType` `DOM` .

DOM jQuery API jQuery .

each (`:`).

```

$(".elements").each(function(){
  //the current element is bound to `this` internally by jQuery when using each
  var currentElement = this;

  //at this point, currentElement (or this) has access to the Native API

  //construct a jQuery object with the currentElement(this)
  var $currentElement = $(this);

  //now $currentElement has access to the jQuery API

```

```
});
```

HTML

jQuery `HTML` . `HTML` jQuery [jQuery](#) `HTML` .

jQuery `HTMLstring`, `quickExpr` = `/^(?:\s*(<[\w\W]+>)[^>]*|#[\w-]*)$/` ([regex101.com](#)).

HTML `DOM` . Modal popouts .

div

```
function template(href,text){
    return $("<div><a href='" + href + "'> + text + "</a></div>");
}
```

jQuery ?

```
<div>
  <a href="google.com">Google</a>
</div>
```

```
template("google.com","Google")
```

: <https://riptutorial.com/ko/jquery/topic/389/>

10:

jQuery `.attr()` .
`, selector (, $("input").attr("type"); $("input").attr("type"); .,)`

Examples

HTML .

`.attr()` .

:

```
$$([selector]).attr([attribute name]);
```

:

HTML :

```
<a href="/home">Home</a>
```

jQuery :

```
$('#a').attr('href');
```

data :

jQuery `.data()` ..data .

:

```
$$([selector]).data([attribute name]);
```

:

Html :

```
<article data-column="3"></article>
```

jQuery :

```
$("#article").data("column")
```

:

jQuery `data () data- *` .

HTML

`attr(attributeName, attributeValue) . :`

```
$('#a').attr('title', 'Click me');
```

"Click me" .

.

`.removeAttr(attributeName) . :`

```
$('#home').removeAttr('title');
```

ID home title .

attr () prop ()

`attr()` DOM `getAttribute()` `setAttribute()` HTML `.prop()` DOM . .

,

```
$('#tosAccept').prop('checked', true); // using attr() won't work properly here
```

`removeProp()` . `removeAttr()` .

: <https://riptutorial.com/ko/jquery/topic/4429/>

11:

- `var jqXHR = $.ajax (url [, settings])`
- `var jqXHR = $.ajax ([settings])`
- `jqXHR.done (function (data, textStatus, jqXHR) {});`
- `jqXHR.fail (function (jqXHR, textStatus, errorThrown) {});`
- `jqXHR.always (function (jqXHR) {});`

<code>url</code>	<code>URL .</code>
	<code>HTTP</code>
<code>statusCode</code>	<code>HTTP</code>
	<code>. "application / x-www-form-urlencoded; charset = UTF-8".</code>
	<code>. this .</code>

AJAX JavaScript XML . AJAX HTTP (AJAX) .

Examples

`$.ajax ()` HTTP

`.done , .fail . .always` **promise** **HTTP** `. statusCode` .

```
$.ajax({
  type: {POST or GET or PUT etc.},
  url: {server.url},
  data: {someData: true},
  statusCode: {
    404: function(responseObject, textStatus, jqXHR) {
      // No content found (404)
      // This code will be executed if the server returns a 404 response
    },
    503: function(responseObject, textStatus, errorThrown) {
      // Service Unavailable (503)
      // This code will be executed if the server returns a 503 response
    }
  }
})
.done(function(data){
  alert(data);
})
```

```

.fail(function(jqXHR, textStatus){
    alert('Something went wrong: ' + textStatus);
})
.always(function(jqXHR, textStatus) {
    alert('Ajax request was finished')
});

```

jQuery :

```

    success . (3xx ) error error .

```

Ajax

ajax .

```

<form id="ajax_form" action="form_action.php">
  <label for="name">Name :</label>
  <input name="name" id="name" type="text" />
  <label for="name">Email :</label>
  <input name="email" id="email" type="text" />
  <input type="submit" value="Submit" />
</form>

```

jQuery (\$(document).ready) -

```

$('#ajax_form').submit(function(event){
    event.preventDefault();
    var $form = $(this);

    $.ajax({
        type: 'POST',
        url: $form.attr('action'),
        data: $form.serialize(),
        success: function(data) {
            // Do something with the response
        },
        error: function(error) {
            // Do something with the error
        }
    });
});

```

- var \$form = \$(this) -
- \$('#ajax_form').submit(function(event){ - ID "ajax_form" .
- event.preventDefault(); - . (ajax({}); return false ,)
- url: \$form.attr('action'), - "action" "url" .
- data: \$form.serialize(), - . "name=Bob&email=bob@bobsemailaddress.com" .

JSON

jQuery jSON JSON .

```
$.ajax("/json-consuming-route", {
  data: JSON.stringify({author: {name: "Bullwinkle J. Moose",
                                email: "bullwinkle@example.com"} }),
  method: "POST",
  contentType: "application/json"
});
```

`contentType` . **API** - **jQuery** %20 + , `contentType` `application/x-www-form-urlencoded`
`application/x-www-form-urlencoded` . `contentType` `processData` `false` .

`JSON.stringify` **JavaScript** **JSON** .

Ajax :

1 :

```
$.get('url.html', function(data){
  $('#update-box').html(data);
});
```

2 :

```
$.ajax({
  type: 'GET',
  url: 'url.php',
}).done(function(data){
  $('#update-box').html(data);
}).fail(function(jqXHR, textStatus){
  alert('Error occured: ' + textStatus);
});
```

Ajax Load : Ajax get .

```
$('#update-box').load('url.html');
```

`.load` . .

```
$('#update-box').load('url.php', {data: "something"});
$('#update-box').load('url.php', "data=something");
```

`.load` .

```
$('#update-box').load('url.php', {data: "something"}, function(resolve){
  //do something
});
```

Ajax Post :

1 :

```
$.post('url.php',
```

```

    {date1Name: data1Value, date2Name: data2Value}, //data to be posted
function(data){
    $('#update-box').html(data);
}
);

```

2:

```

$.ajax({
    type: 'Post',
    url: 'url.php',
    data: {date1Name: data1Value, date2Name: data2Value} //data to be posted
}).done(function(data){
    $('#update-box').html(data);
}).fail(function(jqXHR, textStatus){
    alert('Error occured: ' + textStatus);
});

```

Ajax JSON :

```

var postData = {
    Name: name,
    Address: address,
    Phone: phone
};

$.ajax({
    type: "POST",
    url: "url.php",
    dataType: "json",
    data: JSON.stringify(postData),
    success: function (data) {
        //here variable data is in JSON format
    }
});

```

Ajax JSON :

1:

```

$.getJSON('url.php', function(data){
    //here variable data is in JSON format
});

```

2:

```

$.ajax({
    type: "Get",
    url: "url.php",
    dataType: "json",
    data: JSON.stringify(postData),
    success: function (data) {
        //here variable data is in JSON format
    },
    error: function(jqXHR, textStatus){
        alert('Error occured: ' + textStatus);
    }
});

```

```
    }  
  });
```

Ajax

```
var xhr = $.ajax({  
  type: "POST",  
  url: "some.php",  
  data: "name=John&location=Boston",  
  success: function(msg) {  
    alert( "Data Saved: " + msg );  
  }  
});
```

```
// .
```

```
xhr.abort()
```

Ajax

1.

```
<input type="file" id="file-input" multiple>
```

```
var files;  
var fdata = new FormData();  
$("#file-input").on("change", function (e) {  
  files = this.files;  
  
  $.each(files, function (i, file) {  
    fdata.append("file" + i, file);  
  });  
  
  fdata.append("FullName", "John Doe");  
  fdata.append("Gender", "Male");  
  fdata.append("Age", "24");  
  
  $.ajax({  
    url: "/Test/Url",  
    type: "post",  
    data: fdata, //add the FormData object to the data parameter  
    processData: false, //tell jquery not to process data  
    contentType: false, //tell jquery not to set content-type  
    success: function (response, status, jqxhr) {  
      //handle success  
    },  
    error: function (jqxhr, status, errorMessage) {  
      //handle error  
    }  
  });  
});
```

2.

[MDN \(\)](#) . . .

. file input .multiple multiple .

```
<input type="file" id="file-input" multiple>
```

change event .

```
var files;
$("#file-input").on("change", function(e){
    files = this.files;
});
```

files . [FileList](#) .

3. FormData

Ajax [FormData](#) .

```
var fdata = new FormData();
```

[FileList](#) [for](#) , [for ... for](#) [jQuery.each](#) . [jQuery](#) .

```
$.each(files, function(i, file) {
    //...
});
```

FormData [append](#) formData .

```
$.each(files, function(i, file) {
    fdata.append("file" + i, file);
});
```

. [Google](#) . [formdata](#) .

```
fdata.append("FullName", "John Doe");
fdata.append("Gender", "Male");
fdata.append("Age", "24");
//...
```

4. Ajax

```
$.ajax({
  url: "/Test/Url",
  type: "post",
  data: fdata, //add the FormData object to the data parameter
  processData: false, //tell jquery not to process data
  contentType: false, //tell jquery not to set content-type
  success: function (response, status, jqxhr) {
    //handle success
  },
  error: function (jqxhr, status, errorMessage) {
    //handle error
  }
});
```

processData contentType false . .

: <https://riptutorial.com/ko/jquery/topic/316/>

12:

Examples

1:

```
$('#parent').prepend($('#child'));
```

2:

```
$('#child').prependTo($('#parent'));
```

#child () #parent .

:

```
<div id="parent">
  <span>other content</span>
</div>
<div id="child">
</div>
```

:

```
<div id="parent">
  <div id="child">
  </div>
  <span>other content</span>
</div>
```

[prepend\(\)](#) - [jQuery](#) .

1. `prepend(content [, content])`

```
// with html string
jQuery('#parent').prepend('<span>child</span>');
// or you can use jQuery object
jQuery('#parent').prepend($('#child'));
// or you can use comma separated multiple elements to prepend
jQuery('#parent').prepend($('#child1'), $('#child2'));
```

2. `prepend(function)`

jQuery *version: 1.4* . **HTML** . , this .

```
jQuery('#parent').prepend(function(i, oldHTML) {
  // return the value to be prepend
});
```

```
return '<span>child</span>';  
});
```

: [https://riptutorial.com/ko/jquery/topic/1909/-](https://riptutorial.com/ko/jquery/topic/1909/)

13:

```
.hide() , .show() .toggle() .
```

Examples

```
$(element).hide()           // sets display: none
$(element).show()           // sets display to original value
$(element).toggle()         // toggles between the two
$(element).is(':visible')   // returns true or false
$('element:visible')        // matches all elements that are visible
$('element:hidden')         // matches all elements that are hidden

$('element').fadeIn();      // display the element
$('element').fadeOut();    // hide the element

$('element').fadeIn(1000);  // display the element using timer
$('element').fadeOut(1000); // hide the element using timer

// display the element using timer and a callback function
$('element').fadeIn(1000, function(){
  // code to execute
});

// hide the element using timer and a callback function
$('element').fadeOut(1000, function(){
  // code to execute
});
```

toggle()

```
function toggleBasic() {
  $(".target1").toggle();
}
```

```
function toggleDuration() {
  $(".target2").toggle("slow"); // A millisecond duration value is also acceptable
}
```

...

```
function toggleCallback() {
  $(".target3").toggle("slow", function(){alert('now do something');});
}
```

... .

```
function toggleEasingAndCallback() {
  // You may use jQueryUI as the core only supports linear and swing easings
  $(".target4").toggle("slow", "linear", function(){alert('now do something');});
}
```

```
}
```

... .

```
function toggleWithOptions() {  
  $(".target5").toggle(  
    { // See all possible options in: api.jquery.com/toggle/#toggle-options  
      duration:1000, // milliseconds  
      easing:"linear",  
      done:function(){  
        alert('now do something');  
      }  
    }  
  );  
}
```

slideToggle() .

```
function toggleSlide() {  
  $(".target6").slideToggle(); // Animates from top to bottom, instead of top corner  
}
```

... **fadeToggle()** /

```
function toggleFading() {  
  $( ".target7" ).fadeToggle("slow")  
}
```

... **toggleClass()** .

```
function toggleClass() {  
  $(".target8").toggleClass('active');  
}
```

toggle() () .

```
function toggleX() {  
  $(".targetX").toggle("slow");  
}
```

.

: <https://riptutorial.com/ko/jquery/topic/1298/>

14:

Examples

()

:

```
var width = $('#target-element').width();  
var height = $('#target-element').height();
```

:

```
$('#target-element').width(50);  
$('#target-element').height(100);
```

innerWidth innerHeight ()

:

```
var width = $('#target-element').innerWidth();  
var height = $('#target-element').innerHeight();
```

:

```
$('#target-element').innerWidth(50);  
$('#target-element').innerHeight(100);
```

outerWidth outerHeight ()

():

```
var width = $('#target-element').outerWidth();  
var height = $('#target-element').outerHeight();
```

():

```
var width = $('#target-element').outerWidth(true);  
var height = $('#target-element').outerHeight(true);
```

:

```
$('#target-element').outerWidth(50);  
$('#target-element').outerHeight(100);
```

: <https://riptutorial.com/ko/jquery/topic/2167/----->

15:

jQuery `addEventListener` ., DOM .

Examples

1.7 jQuery API `.on()` . jQuery `.click()` `.click().on()` .

HTML

```
<button id="foo">bar</button>
```

jQuery

```
$( "#foo" ).on( "click", function() {  
    console.log( $( this ).text() ); //bar  
});
```

jQuery `.off(events [, selector] [, handler])` .

HTML

```
<button id="hello">hello</button>
```

jQuery

```
$('#hello').on('click', function(){  
    console.log('hello world!');  
    $(this).off();  
});
```

`$(this)` jQuery . .

jQuery

```
$('#hello').on('click', function(){  
    console.log('hello world!');  
    $(this).off('click');
```

```
});  
  
$('#hello').on('mouseenter', function(){  
    console.log('you are about to click');  
});
```

mouseenter .

. HTML .

HTML

```
<html>  
  <head>  
  </head>  
  <body>  
    <ul>  
      <li>  
        <a href="some_url/">Link 1</a>  
      </li>  
      <li>  
        <a href="some_url/">Link 2</a>  
      </li>  
      <li>  
        <a href="some_url/">Link 3</a>  
      </li>  
    </ul>  
  </body>  
</html>
```

<a> . . . (: \$('a').click()) .

<a> .

() . . "" .

<a> " .

-
-
- ul
-
- HTML
-

HTML

, .

```
$('#ul').on('click', 'a', function () {
    console.log(this.href); // jQuery binds the event function to the targeted DOM element
                             // this way `this` refers to the anchor and not to the list
    // Whatever you want to do when link is clicked
});
```

:

- 'ul' .
- ('click') .
- ('a') (ul) .
- .

■

1. <a> .
2. <a> click .
3. .
4. .
5. .
6. . ", ", .
7. ('a') . 'a' .
8. this . stopPropagation() (document) .

: document document . 'body' .

- body . . 0 (:) . document document .
- document , *DOM* document .

.load ()

PDF .load() .on("load", handler) .load() .

HTML

```

```

jQuery

```
$( "#image" ).load(function() {
    // run script
});
```


ID

-
- `.this` **selector** .
- `this` `this`
- `find()` .

HTML

```
<div class="item-wrapper" data-item_id="346">
  <div class="item"><span class="person">Fred</span></div>
  <div class="item-toolbar">
    <button class="delete">Delete</button>
  </div>
</div>
<div class="item-wrapper" data-item_id="393">
  <div class="item"><span class="person">Wilma</span></div>
  <div class="item-toolbar">
    <button class="delete">Delete</button>
  </div>
</div>
```

jQuery

```
$(function() {
  $('.delete').on('click', function() {
    // "this" is element event occurred on
    var $btn = $(this);
    // traverse to wrapper container
    var $itemWrap = $btn.closest('.item-wrapper');
    // look within wrapper to get person for this button instance
    var person = $itemWrap.find('.person').text();
    // send delete to server and remove from page on success of ajax
    $.post('url/string', { id: $itemWrap.data('item_id')}).done(function(response) {
      $itemWrap.remove()
    }).fail(function() {
      alert('Oops, not deleted at server');
    });
  });
});
```

originalEvent

jQuery . `Event.originalEvent` `Event.originalEvent`

```
$(document).on("wheel", function(e) {
  console.log(e.originalEvent.deltaY)
  // Returns a value between -100 and 100 depending on the direction you are scrolling
})
```

jQuery .()

.

```
//Adding a normal click handler
$(document).on("click",function(){
    console.log("Document Clicked 1")
});
//Adding another click handler
$(document).on("click",function(){
    console.log("Document Clicked 2")
});
//Removing all registered handlers.
$(document).off("click")
```

document .

.

()),

```
//Add named event listener.
$(document).on("click.mymodule",function(){
    console.log("Document Clicked 1")
});
$(document).on("click.mymodule",function(){
    console.log("Document Clicked 2")
});

//Remove named event listener.
$(document).off("click.mymodule");
```

.

: <https://riptutorial.com/ko/jquery/topic/1321/>

16:

1. `$().append()`
2. `$(content).appendTo(selector)`

```
:, HTML, , , .
```

- `.append()` & `.after()` . HTML (:). URL , . XSS (Cross-Site-Scripting) .
- jQuery SVG . SVG jQuery . SVG jQuery 3.0 `addClass` `removeClass`.

Examples

1:

```
$('#parent').append($('#child'));
```

2:

```
$('#child').appendTo($('#parent'));
```

`#child()` `#parent` .

:

```
<div id="parent">
  <span>other content</span>
</div>
<div id="child">
</div>
```

:

```
<div id="parent">
  <span>other content</span>
  <div id="child">
    </div>
</div>
```

: . `.append()` . `.appendTo()` . `.clone()` -> [<http://api.jquery.com/clone/>] [1]

.append ()

:

HTML

```
<table id='my-table' width='960' height='500'></table>
```

JS

```
var data = [  
  { type: "Name", content: "John Doe" },  
  { type: "Birthdate", content: "01/01/1970" },  
  { type: "Salary", content: "$40,000,000" },  
  // ...300 more rows...  
  { type: "Favorite Flavour", content: "Sour" }  
];
```

...

:

```
var i; // <- the current item number  
var count = data.length; // <- the total  
var row; // <- for holding a reference to our row object  
  
// Loop over the array  
for ( i = 0; i < count; ++i ) {  
  row = data[ i ];  
  
  // Put the whole row into your table  
  $('#my-table').append(  
    $('<tr></tr>').append(  
      $('<td></td>').html(row.type),  
      $('<td></td>').html(row.content)  
    )  
  );  
}
```

...

■

300+ ?

, (<table>), .

1. ■

```
/**
 * Repeated DOM traversal (following the tree of elements down until you reach
 * what you're looking for - like our <table>) should also be avoided wherever possible.
 */

// Keep the table cached in a variable then use it until you think it's been removed
var $myTable = $('#my-table');

// To hold our new <tr> jQuery objects
var rowElements = [];

var count = data.length;
var i;
var row;

// Loop over the array
for ( i = 0; i < count; ++i ) {
    rowElements.push(
        $('<tr></tr>').append(
            $('<td></td>').html(row.type),
            $('<td></td>').html(row.content)
        )
    );
}

// Finally, insert ALL rows at once
$myTable.append(rowElements);
```

jQuery .

2. Array. *

```
var $myTable = $('#my-table');

// Looping with the .map() method
// - This will give us a brand new array based on the result of our callback function
var rowElements = data.map(function ( row ) {

    // Create a row
    var $row = $('<tr></tr>');

    // Create the columns
    var $type = $('<td></td>').html(row.type);
    var $content = $('<td></td>').html(row.content);

    // Add the columns to the row
    $row.append($type, $content);

    // Add to the newly-generated array
    return $row;
});
```

```
});  
  
// Finally, put ALL of the rows into your table  
$myTable.append(rowElements);
```

, .

3. HTML (jQuery)

```
// ...  
var rowElements = data.map(function ( row ) {  
    var rowHTML = '<tr><td>';  
    rowHTML += row.type;  
    rowHTML += '</td><td>';  
    rowHTML += row.content;  
    rowHTML += '</td></tr>';  
    return rowHTML;  
});  
  
// Using .join('') here combines all the separate strings into one  
$myTable.append(rowElements.join(''));
```

. jQuery . jQuery .

4. ,

```
var $myTable = $(document.getElementById('my-table'));  
  
/**  
 * Create a document fragment to hold our columns  
 * - after appending this to each row, it empties itself  
 * so we can re-use it in the next iteration.  
 */  
var colFragment = document.createDocumentFragment();  
  
/**  
 * Loop over the array using .reduce() this time.  
 * We get a nice, tidy output without any side-effects.  
 * - In this example, the result will be a  
 * document fragment holding all the <tr> elements.  
 */  
var rowFragment = data.reduce(function ( fragment, row ) {  
  
    // Create a row  
    var rowEl = document.createElement('tr');  
  
    // Create the columns and the inner text nodes  
    var typeEl = document.createElement('td');  
    var typeText = document.createTextNode(row.type);  
    typeEl.appendChild(typeText);  
  
    var contentEl = document.createElement('td');  
    var contentText = document.createTextNode(row.content);
```

```

contentEl.appendChild(contentText);

// Add the columns to the column fragment
// - this would be useful if columns were iterated over separately
//   but in this example it's just for show and tell.
colFragment.appendChild(typeEl);
colFragment.appendChild(contentEl);

rowEl.appendChild(colFragment);

// Add rowEl to fragment - this acts as a temporary buffer to
// accumulate multiple DOM nodes before bulk insertion
fragment.appendChild(rowEl);

return fragment;
}, document.createDocumentFragment());

// Now dump the whole fragment into your table
$smartyTable.append(rowFragment);

```

. jQuery .

- [jQuery](#)
- [Array.prototype.join \(\)](#)
- [Array.prototype.map \(\)](#)
- [Array.prototype.reduce \(\)](#)
- [document.createDocumentFragment \(\)](#)
- [document.createTextNode \(\)](#)
- [Google](#) -

jQuery

HTML

```

<p>This is a nice </p>
<p>I like </p>

<ul>
  <li>List item 1</li>
  <li>List item 2</li>
  <li>List item 3</li>
</ul>

<button id="btn-1">Append text</button>
<button id="btn-2">Append list item</button>

```

```

$("#btn-1").click(function() {
  $("#p").append(" <b>Book</b>.");
});
$("#btn-2").click(function() {
  $("#ul").append("<li>Appended list item</li>");
});

```

```
});
```

: <https://riptutorial.com/ko/jquery/topic/1910/>

17:

Examples

jQuery API .hide() , .fadeIn() , .hasClass() .

jQuery \$.fn \$.fn ,

```
jQuery.fn = jQuery.prototype
```

jQuery (jQuery \$) .

jQuery . , \$(' .active') jQuery () .

this jQuery . this .

:

```
$.fn.highlight = function() {  
    this.css({ background: "yellow" });  
};  
  
// Use example:  
$("span").highlight();
```

[jsFiddle](#)

jQuery Chainable .

```
$(".warn").append("WARNING! ").css({color:"red"}) $(".warn").append("WARNING!  
").css({color:"red"}) ( .css() .append() .css() .append() .warn .
```

/ .

```
(function($) {  
    $.fn.highlight = function( custom ) {  
  
        // Default settings  
        var settings = $.extend({  
            color : "", // Default to current text color  
            background : "yellow" // Default to yellow background  
        }, custom);  
  
        return this.css({ // `return this` maintains method chainability  
            color : settings.color,  
            backgroundColor : settings.background  
        });  
    };  
});
```

```

    };
})( jQuery );

// Use Default settings
$("span").highlight(); // you can chain other methods

// Use Custom settings
$("span").highlight({
    background: "#f00",
    color: "white"
});

```

jsFiddle

• •

.highlight() •

```

//...
// Default settings
var settings = $.extend({
    text : "", // text to highlight
    class : "highlight" // reference to CSS class
}, custom);

return this.each(function() {
    // your word highlighting logic here
});
//...

```

CSS

.

```

$("#content").highlight({
    text : "hello",
    class : "makeYellowBig"
});

```

jsFiddle

jQuery.fn.extend ()

jQuery (\$.fn) jQuery () .

:

```

<div>Hello</div>
<div>World!</div>

<script>
jQuery.fn.extend({
    // returns combination of div texts as a result
    getMessage: function() {
        var result;
        // this keyword corresponds result array of jquery selection

```

```
this.each(function() {
    // $(this) corresponds each div element in this loop
    result = result + " " + $(this).val();
});
return result;
}
});

// newly created .getMessage() method
var message = $("div").getMessage();

// message = Hello World!
console.log(message);
</script>
```

: <https://riptutorial.com/ko/jquery/topic/1805/>

18: /

Stackoverflow / " " . : select all "select all" id . ID cbGroup1. cbGroup1.
.if () .

Examples

2

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>

<p>
<input id="cbGroup1" type="checkbox">Select all
<input name="cbGroup1" type="checkbox" value="value1_1">Group1 value 1
<input name="cbGroup1" type="checkbox" value="value1_2">Group1 value 2
<input name="cbGroup1" type="checkbox" value="value1_3">Group1 value 3
</p>
<p>
<input id="cbGroup2" type="checkbox">Select all
<input name="cbGroup2" type="checkbox" value="value2_1">Group2 value 1
<input name="cbGroup2" type="checkbox" value="value2_2">Group2 value 2
<input name="cbGroup2" type="checkbox" value="value2_3">Group2 value 3
</p>

<script type="text/javascript" language="javascript">
    $("input").change(function() {
        $('input[name="'+this.id+'"]').not(this).prop('checked', this.checked);
        $('#'+this.name).prop('checked', $('input[name="'+this.name+'"]').length ===
        $('input[name="'+this.name+'"]').filter(':checked').length);
    });
</script>
```

/ : <https://riptutorial.com/ko/jquery/topic/10076/----->

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10		A.J. , acdcjunior , ban17 , ochi , Scimonster
11		Alon Eitan , amflare , Andrew Brooke , Ashkan Mobayen Khiabani , Athafoud , atilacamura , Ben H , Cass , Community , csbarnes , Dr. J. Testington , Edathadan Chief aka Arun , empiric , hasan ,

		joe_young , John C , kapantzak , Kiren Siva , Lacriouque , Marimba , Nirav Joshi , Ozan , shaN , Shaunak D , Teo Dragovic , Yosvel Quintero
12		Ashkan Mobayen Khiabani , empiric , J F , Pranav C Balan
13		Alex Char , Paul Roub , Rupali Pemare , The_Outsider , Theodore K. , user2314737 , Zaz
14		Ashkan Mobayen Khiabani
15		Adjit , charlietfl , DelightedD0D , doydoy44 , empiric , Gone Coding , Horst Jahns , Jatniel Prinsloo , Kevin B , Louis , Luca Putzu , Marimba , NotJustin , SGS Venkatesh , Stephen Leppik , Sunny R Gupta , Washington Guedes , WMios , Zakaria Acharki
16		Ashkan Mobayen Khiabani , bipon , Community , Darshak , Deryck , empiric , Flyer53 , J F , JF it , Paul Roub , Pranav C Balan , Proto , Shaunak D
17		hasan , Roko C. Buljan , Travis J
18	/	user1851673