

 免費電子書

學習

jQuery

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1: jQuery

jQuery JavaScript DOM AJAX。 DOM JavaScript。

jQuery <https://code.jquery.com/jquery/>。

1.0		2006-08-26
1.1		2007-01-14
1.2		2007-09-10
1.3	Sizzle	2009-01-14
1.4		2010-01-14
1.5	ajax	2011-01-31
1.6	attr() val()	2011-05-03
1.7	API on() off()。	2011-11-03
1.8	Sizzle \$(html, props)。	2012-08-09
1.9		2013115
1.10	1.9.2.0 beta	2013524
1.11		2014124
1.12		201618
2.0	IE 6-8	2013418
2.1		2014124
2.2		201618
3.0	jQuery	201669
3.1		201677

Examples

jQuery “jQuery” “\$”

jQuery

jQuery ◦ jQuery(...) jQuery.foo ◦

\$jQuery jQuery.noConflict(); - ◦

HTML -

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

jQuery div ◦ 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

Web ◦ Hello, World!

1. jQuery CDN jQuery

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

\$ global jQuery

jQuery

2. jQueryDOM

```
// When the `document` is `ready`, execute this function `...`  
$(document).ready(function() { ... });  
  
// A commonly used shorthand version (behaves the same as the above)  
$(function() { ... });
```

3. DOMjQuery

1. `id#hello #hello` 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

```
<script  
  src="https://code.jquery.com/jquery-2.2.4.min.js"  
  integrity="sha256-bbntvQ1/R17R8gjaobQsRwqR6LackXxZKRute1T44=" "  
  crossorigin="anonymous"></script>
```

jQuery

- jQuery

jQuery

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

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

jQuery 1.x

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

`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!');
```

jQueryjQueryIIFEjQuery

```
(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() \$jQueryjQueryjQuery
- var jQuery2 = jQuery.noConflict() - \$jQueryjQueryjQuery2

- jQuery jQuery2 jQuery2jQuery2

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

\$jQueryjQuery

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

jQueryjQuery

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() newjQuery◦

```
// 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 jQuerynew ◦

jQuery API.each children filterjQuery undefined null◦ ◦

idjQueryDOM◦

```
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>
```

jQueryjQueryjQuery.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/zh-TW/jquery/topic/211/jquery>

2: CSS

- `.csscssProperty`//CSS
- `.css[cssProperty...]`//Array of cssProperties
- `.csscssPropertyvalue`//
- `.css{cssPropertyvalue...}`//
- `.csscssPropertyfunction`//cssProperty

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

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

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

CSSStringcamelCase

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

String ◦ jQuery px

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

jQuery 3 `.show()` `.show()` `.hide()`

jQuery `.show()` `.show()` `.hide()` ◦

```
display: none .show() ◦ jQuery 3.0 display: none .show() - .slideDown().fadeIn() - ◦  
"hidden" display: none 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 - GettersSetters

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") DOMCSSundefinedundefined

CSS getter

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

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

CSS Setter

.css() **setter**DOM

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

\$("#selector").width(500)jQuery

.css() **setterCSS**

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

setterDOMstyle!important◦

CSS <https://riptutorial.com/zh-TW/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>
```

jQueryDOMhasClass() 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 \$(".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 **even / odd** ◦ **OLD** ◦ else return oldClasses;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

jQueryDOM.

[.empty](#).

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

`$('#content').empty();` **div** ◦ `$('#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)◦

Deleteid

```
$('.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() DOMspanjQuery◦

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()`

◦

```
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;
```

DOMsortList()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);
};

// ...
```

DOM <https://riptutorial.com/zh-TW/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`

```
$('.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>
```

`reddiv`

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

`key` `div` `red` ◦ `ele` `HTML` `$()` `jQuery()` `jQuery` `$(ele)` ◦ `jQuery` `css()` `hide()` ◦ ◦

`.siblings()` ◦ `.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");
```

nearest

DOM.

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') );
```

OUTPUT

```
"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

`.findDOMjQuery`

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/zh-TW/jquery/topic/1189/dom>

5: jQuery .animate

1. .animate({})

	CSS
	400
	swing
	◦
	◦
	◦
	◦
	◦
DONE	◦
	◦
specialEasing	stylesCSS◦
	◦

Examples

◦ **jQuery** `fadeIn()`, `hide()`, `slideDown()`◦

jQuery `.animate()`◦ **css**◦ **css** `width:200px;DOM50animatecss150.`◦

```
<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().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/zh-TW/jquery/topic/5064/jquery--animate-->

6: jQueryPromises

jQuery promises ◦ ◦

Examples

“ ” ◦ DeferredDeferred

```
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");  
});
```

promise ◦

```
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

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 ◦ ◦

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

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

◦ promise/promise

```
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 Promises <https://riptutorial.com/zh-TW/jquery/topic/8308/jquerypromises>

7:

```
.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/zh-TW/jquery/topic/1298/>

8:

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\(\)](#) - ◦

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/zh-TW/jquery/topic/1909/>

9:

`jQuery.attr()`◦

```
$("#input").attr("type");
```

◦

Examples

HTML

`.attr()`◦

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

HTML

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

jQuery

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

data

jQuery `.data()`◦ `.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');
```

IDhometitle◦

attrprop

`attr()` DOM `getAttribute()` `setAttribute()` /HTML◦ `prop()` DOM◦ ◦

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

`removeProp()`◦ `removeAttr()`◦

<https://riptutorial.com/zh-TW/jquery/topic/4429/>

10:

Examples

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

jQuery\$.fn

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

jQueryjQuery\$◦

jQuery◦ \$(' .active')jQuery◦

thisjQuery◦ this◦

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

[jsFiddle](#)

jQuery ◦

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

```
<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/zh-TW/jquery/topic/1805/>

11:

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/zh-TW/jquery/topic/10853/>

12:

jQuery [addEventListener](#) ◦ DOM ◦

Examples

1.7 jQueryAPI [.on\(\)](#) ◦ [javascript](#)jQuery ◦ [.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>“click”

-
-
- 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'
- .

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

/document . 'body'

- bodybug . 0 . document .
- document *DOM-ready* document .

.load

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

HTML

```

```

jQuery

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

ID

.

-

- ◦ 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

```
$(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/zh-TW/jquery/topic/1321/>

13:

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>
```

jQueryJavaScriptDOM

```
<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 JSjQuery\$.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).readyHTMLDOMJavaScript

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 ready。 ""。

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

>
>

\$document.ready\$window.load

\$(window).load() [jQuery 1.8](#) [jQuery 3.0](#) ◦ [jQuery](#)

.load() ◦ ◦

-
- srcsrc 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
});
```

readyDOM

```
$(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 div
```

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

jQueryfn

```
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/zh-TW/jquery/topic/500/>

14:

Examples

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

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

innerWidthinnerHeight

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

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

outerWidthouterHeight

```
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/zh-TW/jquery/topic/2167/>

15: /

Stackoverflow“”/。 “”ID。 IDcbGroup1。 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/zh-TW/jquery/topic/10076/-](https://riptutorial.com/zh-TW/jquery/topic/10076/)

16:

jQueryHTMLDOM。idHTML。CSS。

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

classidattributeselectors

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

\\。

。

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

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

Examples

jQuery

-
-
- ID
-
-
-
-

CSSjQuery。

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 -->
```

jQuery1,2,34。

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

jQueryexample3,45

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

ID

jQueryID2

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

jQueryhref14

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

jQueryhrefindex.html 1

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

jQuery1ie。 second-link1eq(1) 0

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

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

<a>example1

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

```
:not()
```

<a>example12

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

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

jQuery<a>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
- attr2something attr3something
- first-childfirst-of-type first-child

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

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

jQueryCSS. °

-
- >
- +
- ~

° *

```
$('#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>
```

```
<ul> - parentUl <li>
```

```
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>
```

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

```
“”
```

```
class parentUl<ul>
```

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

```
“+”
```

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

```
$('#li + li')
```

“”

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

```
$('#li ~ li')
```

jQueryjQuery。。

```
$("#*") // 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>
```

jQueryDOM。。

```
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。 DOMchild。

```
<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

jQueryDOM。DOMjQueryjQuery。

jQuerynodeTypeDOM。

DOMjQueryjQuery API。

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。HTMLjQueryjQueryHTML。

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

HTMLDOMModal。

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/zh-TW/jquery/topic/389/>

17:

- var jqXHR = \$.ajaxurl [settings]
- var jqXHR = \$.ajax[settings]
- jqXHR.donefunctiondatatextStatusjqXHR{};
- jqXHR.failfunctionjqXHRtextStatuserrorThrown{};
- jqXHR.alwaysfunctionjqXHR{};

	URL
	HTTP
StatusCode	HTTP
	◦ "application / x-www-form-urlencoded; charset = UTF-8"
	this◦

AJAXAJavaScript X ML。 AJAXHTTPAJAX。

Examples

\$.ajaxHTTP

.done .fail.always promiseHTTP◦ 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

```
;3xxerror°
```

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

jQueryjSON 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+contentTypeapplication/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 Loadajax 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 Post 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
    }
});

```

AjaxJSON

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.

o

```
<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.

[MDNWeb](#) ◦ ◦

◦ file input ◦ multiple ◦

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

change event ◦

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

files ◦ [FileList](#) object ◦

3. FormData

[AjaxFormData](#) ◦

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

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

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

[FormData](#) [append](#) [formdata](#) ◦

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

◦ ◦ [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
  }
});
```

processDatacontentTypefalse ° °

<https://riptutorial.com/zh-TW/jquery/topic/316/>

18:

1. \$.append
2. \$.appendTo

HTML。

- .append。 after。 HTML。 URLCookie。 XSS。 ◦
- jQuerySVG。 SVGjQuery
 - SVGjQuery 3.0addClassremoveClass。

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. HTMLjQuery

```
// ...
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
$myTable.append(rowFragment);
```

◦ jQuery◦

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

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/zh-TW/jquery/topic/1910/>

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