



# Discovering jQuery

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# What is jQuery?

jQuery is a fast, small, and feature-rich **JavaScript library**.

jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.

The jQuery library contains the following features:

- HTML/DOM manipulation
- CSS manipulation
- HTML event methods
- Effects and animations
- AJAX
- Utilities

## Warning

jQuery is **NOT** a replacement for JavaScript :  
it is just a library, a set of tools designed to help you write code.

You will use jQuery **in** your JavaScript scripts !

# How to use jQuery?

1. Include jQuery (in the HTML header), preferably using a CDN:

```
<script src="https://code.jquery.com/jquery-3.6.3.min.js"
integrity="sha256-pvPw+upLPUjgMXY0G+800xUf+/Im1MZjXxxgOcBQBXU="
crossorigin="anonymous"></script>
```

2. Use it (in a separate JS file or in a script tag):

```
$(document).ready(function() { // Waits until the page is ready
  // Write your JS code here
});
```

# How to write code using jQuery?

The syntax is quite simple:

```
$ (selector) .action() ;
```

**\$**: alias of jQuery

**selector**: the HTML element on which you want to perform the action

**action()**: the action to be performed

# jQuery selectors

`$ ("p")` selects all `<p>` elements

`$ (" .test")` selects all elements with `class="test"`

`$ (" #test")` selects the element with `id="test"`

`$ (this)` selects the `current` element

# jQuery selectors examples

<code>\$("*")</code>	Selects all elements
<code>\$(this)</code>	Selects the current HTML element
<code>\$("p.intro")</code>	Selects all <p> elements with class="intro"
<code>\$("p:first")</code>	Selects the first <p> element
<code>\$("ul li:first")</code>	Selects the first <li> element of the first <ul>
<code>\$("ul li:first-child")</code>	Selects the first <li> element of every <ul>
<code>\$("[href]")</code>	Selects all elements with an href attribute
<code>\$("a[target]='_blank'")</code>	Selects all <a> elements with a target attribute value equal to "_blank"
<code>\$("a[target]!='_blank'")</code>	Selects all <a> elements with a target attribute value NOT equal to "_blank"
<code>\$(":button")</code>	Selects all <button> elements and <input> elements of type="button"
<code>\$("tr:even")</code>	Selects all even <tr> elements
<code>\$("tr:odd")</code>	Selects all odd <tr> elements

# jQuery events

Syntax:

```
$("p").click(function() {  
    // action goes here!!  
});
```

Examples:

Mouse Events	Keyboard Events	Form Events	Document/Window Events
click	keypress	submit	load
dblclick	keydown	change	resize
mouseenter	keyup	focus	scroll
mouseleave		blur	unload



# jQuery's magic

Traversing DOM using: `.find()` `.children()` `.parent()`

Changing CSS: `$("span").css("color", "green");`

Selecting elements :

```
$("p").has("span").css("color", "orange");
```

Will select: `<p>I have a span tag <span>here</span></p>`

Will not select: `<p>I don't have a span tag</p>`

Chaining functions :

```
$(".conteneur").children("h1").css("background-color", "blue");
```

And much more...

<https://api.jquery.com/>

# Sources

- [jQuery CDN](#)
- jQuery Official Documentation : [jQuery API](#)
  
- [jQuery Tutorial](#)
- AJAX : [jQuery AJAX Methods](#)
  
- [Introduction au cours jQuery - Pierre Giraud](#)