

jQuery

(JavaScript Library)

jQuery is a **JavaScript** library designed to simplify HTML DOM tree traversal and manipulation

jQuery



Selecting elements



Events



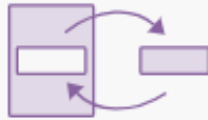
.css()



Document ready

.focused
.blurred

Classes



.ajax()



Creating elements



HTML & text

jQuery

- Selecting elements

```
// jQuery, select all instances of .box  
$(".box");
```

```
// Instead, select the first instance of .box  
document.querySelector(".box");
```

```
// ...or select all instances of .box  
document.querySelectorAll(".box");
```

```
// with jQuery  
// Hide all instances of .box  
$(".box").hide();
```

```
// without jQuery  
// Iterate over the nodelist of elements to hide all instances of .box  
document.querySelectorAll(".box").forEach(box => { box.style.display = "none" })
```

jQuery

- Working with events

```
// With jQuery
$(".button").click(function(e) { /* handle click event */ });
$(".button").mouseenter(function(e) { /* handle click event */ });
$(document).keyup(function(e) { /* handle key up event */ });

// Without jQuery
document.querySelector(".button").addEventListener("click", (e) => { /* ... */ });
document.querySelector(".button").addEventListener("mouseenter", (e) => { /* ... */ });
document.addEventListener("keyup", (e) => { /* ... */ });
```

```
// With jQuery
// Trigger myEvent on document and .box
$(document).trigger("myEvent");
$(".box").trigger("myEvent");

// Without jQuery
// Create and dispatch myEvent
document.dispatchEvent(new Event("myEvent"));
document.querySelector(".box").dispatchEvent(new Event("myEvent"));
```

jQuery

■ Styling

```
// With jQuery  
// Select .box and change text color to #000  
$(".box").css("color", "#000");  
  
// Without jQuery  
// Select the first .box and change its text color to #000  
document.querySelector(".box").style.color = "#000";
```

```
// With jQuery  
// Hide and show an element  
$(".box").hide();  
$(".box").show();  
  
// Without jQuery  
// Hide and show an element by changing "display" to block and none  
document.querySelector(".box").style.display = "none";  
document.querySelector(".box").style.display = "block";
```

```
// With jQuery  
// Pass multiple styles  
$(".box").css({  
    "color": "#000",  
    "background-color": "red"  
});  
  
// Without jQuery  
// Set color to #000 and background to red  
var box = document.querySelector(".box");  
box.style.color = "#000";  
box.style.backgroundColor = "red";  
  
// Set all styles at once (and override any existing styles)  
box.style.cssText = "color: #000; background-color: red";
```

jQuery

- Document ready

```
// With jQuery
$(document).ready(function() {
  /* Do things after DOM has fully loaded */
});

// Without jQuery
// Define a convenience method and use it
var ready = (callback) => {
  if (document.readyState !== "loading") callback();
  else document.addEventListener("DOMContentLoaded", callback);
}

ready(() => {
  /* Do things after DOM has fully loaded */
});
```

jQuery

- Working with classes (single, multiple)

```
// With jQuery  
// Add, remove, and the toggle the "focus" class  
$(".box").addClass("focus");  
$(".box").removeClass("focus");  
$(".box").toggleClass("focus");
```

```
// Without jQuery  
// Add, remove, and the toggle the "focus" class  
var box = document.querySelector(".box");  
box.classList.add("focus");  
box.classList.remove("focus");  
box.classList.toggle("focus");
```

```
// Remove the "focus" class and add "blurred"  
document.querySelector(".box").classList.replace("focus", "blurred");
```

```
// Add "focus" and "highlighted" classes, and then remove them  
var box = document.querySelector(".box");  
box.classList.add("focus", "highlighted");  
box.classList.remove("focus", "highlighted");
```

jQuery

- Network requests with `.get()` or `.ajax()`

```
// With jQuery
$.ajax({
  url: "data.json"
}).done(function(data) {
  // ...
}).fail(function() {
  // Handle error
});
```

```
// Without jQuery
fetch("data.json")
  .then(data => {
    // Handle data
  }).catch(error => {
    // Handle error
  });
```


jQuery

- Creating elements

```
// Create a div & span
```

```
$("#<div/>");
```

```
$("#<span/>");
```

```
// Create a div and a span
```

```
document.createElement("div");
```

```
document.createElement("span");
```

jQuery

- Updating the DOM

```
// With jQuery  
// Update the text of a .button  
$(".button").text("New text");  
// Read the text of a .button  
$(".button").text(); // Returns "New text"
```

```
// Without jQuery  
// Update the text of a .button  
document.querySelector(".button").textContent = "New text";  
// Read the text of a .button  
document.querySelector(".button").textContent; // Returns "New text"
```

```
// Create div element and append it to .container  
$(".container").append($(".<div/>"));  
  
// Create a div and append it to .container  
var element = document.createElement("div");  
document.querySelector(".container").appendChild(element);
```

Enjoy your fast development with jQuery