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This is cheatsheet for DOM manipulation differences between jquery and vanilla.

1. Selecting Elements

```javascript
// 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");
```

2. Running Function on all selected elements

```javascript
// 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" })
```

3. Finding one element within another

```javascript
// With jQuery
// Select the first instance of .box within .container
var container = $(".container");
// Later...
container.find(".box");


// Without jQuery
// Select the first instance of .box within .container
var container = document.querySelector(".container");
// Later...
container.querySelector(".box");
```

4. Traversing the tree with parent(), next() and prev()

```javascript
// with jQuery
// Return the next, previous, and parent element of .box
$(".box").next();
$(".box").prev();
$(".box").parent();
```

```javascript
// Without jQuery
// Return the next, previous, and parent element of .box
var box = document.querySelector(".box");
box.nextElementSibling;
box.previousElementSibling;
box.parentElement;
```

5. Working with Events

```javascript
// 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) => { /* ... */ });
```

6. Event Listening for Dynamically added Elements

```javascript
// With jQuery
// Handle click events .search-result elements,
// even when they're added to the DOM programmatically
$(".search-container").on("click", ".search-result", handleClick);

// Without jQuery
// Create and add an element to the DOM
var searchElement = document.createElement("div");
document.querySelector(".search-container").appendChild(searchElement);
// Add an event listener to the element
searchElement.addEventListener("click", handleClick);
```

7. Triggering and Creating Event

```javascript
// 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"));
```

8. Styling Elements

```javascript
// 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
// 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";
```

9. hide() and show()

```javascript
// With jQuery
// Hide and show and 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"
```

10. document ready

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

// Without jQuery
```

```javascript
// 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 */
});
```

11. Working with classes

```javascript
// 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");

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

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

12. Checking if Element has a Class

```javascript
// With jQuery
// Check if .box has a class of "focus", and do something
if ($(".box").hasClass("focus")) {
  // Do something...
}

// Without jQuery
// Check if .box has a class of "focus", and do something
if (document.querySelector(".box").classList.contains("focus")) {
  // Do something...
}
```

13. Network requests with .get() or .ajax()

```javascript
// 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
  });
```

14. Creating Elements

```javascript
// Create a div & span
$("<div/>");
$("<span/>");

// Create a div and a span
document.createElement("div");
document.createElement("span");

var element = document.createElement("div");
element.textContent = "Text"
// or create a textNode and append it
var text = document.createTextNode("Text");
element.appendChild(text);
```

15. Updating DOM

```javascript
// 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";
```

```javascript
// 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);

// Create a div
var element = document.createElement("div");

// Update its class
element.classList.add("box");

// Set its text
element.textContent = "Text inside box";

// Append the element to .container
document.querySelector(".container").appendChild(element);
```