

jQuery-free JavaScript

Native Events

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Native Events

Bind & Unbind

jQuery

```
$("#save").click(function() {});
```

```
$("#save").bind("click", function() {});
```

```
$("#save").on("click", function() {});
```

```
$("#button").on("click", function() {});
```

Bind & Unbind

Native

```
document.getElementById("save")  
    .addEventListener("click", function() {});
```

```
var buttons = document.querySelectorAll("button"),  
    callback = function() {};
```

```
[].forEach.call(buttons, function(button) {  
    button.addEventListener("click", callback);  
});
```

Bind & Unbind

jQuery - Unbind

```
var $el = $("#save"),  
    callback = function() {}; // same as attached
```

```
$el.off(); // or unbind
```

```
$el.off("click"); // or unbind
```

```
$el.off("click.namespace"); // or unbind
```

```
$el.off("click", callback); // or unbind
```

Bind & Unbind

Native - Unbind

```
var element = document.getElementById("save"),  
    callback = function() {}; // same as attached  
  
element.removeEventListener("click", callback);  
  
var buttons = document.querySelectorAll("button");  
[].forEach.call(buttons, function(button) {  
    button.removeEventListener("click", callback);  
});
```

Delegate & Undelegate

jQuery

```
$("#container").delegate(".widget", "click",  
    function(e) {});
```

```
$("#container").on("click", ".widget",  
    function(e) {});
```

Native: Option 1

```
document.getElementById("container")  
    .addEventListener("click", function(e) {  
        if (e.target.matches(".widget")) {}  
    });
```

Delegate & Undelegate

Native: Option 2

```
document.getElementById("container")
    .addEventListener("click", function(e) {
        var element = e.target.closest(".widget", this);

        if (element) { }
    });
```

<http://manor.im/jquery-free-repo>

```
        element = element.parentNode;
    }
```

```
        if (found) {}
    });
```


Delegate & Undelegate

jQuery - Undelegate

```
var $el = $("#container"),  
    callback = function() {};           // same as attached  
  
$el.off();                             // or undelegate  
$el.off(".widget", "click");           // or undelegate  
$el.off(".widget", "click", callback); // or undelegate  
$el.off(".namespace");                 // or undelegate
```

Native - Undelegate

```
document.getElementById("container")  
    .removeEventListener("click", callback);
```

Prevent Default & Stop Propagation

jQuery

```
$("#tab1").on("click", function(e) {  
    e.preventDefault();  
    e.stopPropagation();  
});
```

Native

```
document.getElementById("tab1")  
    .addEventListener("click", function(e) {  
        e.preventDefault();  
        e.stopPropagation();  
    });
```

Target & Which

jQuery

```
$("#search").on("keypress", function(e) {  
    console.log(e.which);  
    console.log(e.target);  
});
```

Native

```
document.getElementById("search")  
    .addEventListener("keypress", function(e) {  
        console.log(e.which);  
        console.log(e.target);  
    });
```

Proxy

jQuery

```
var store = {  
  category: "Books",  
  clickHandler: function(e) {  
    var url = "./store/" + this.category,  
        search = $(e.currentTarget).closest(".search"),  
        data = search.find("input").val();  
    console.log(url, data);  
  }  
};  
  
$("#search").on("click",  
  $.proxy(store.clickHandler, store));
```

Proxy

Native

```
var store = {  
  category: "Books",  
  clickHandler: function(e) {  
    var url = "./store/" + this.category,  
        search = e.currentTarget.closest(".search"),  
        data = search.querySelector("input").value;  
    console.log(url, data);  
  }  
};
```

```
document.getElementById("search")  
  .addEventListener("click",  
    store.clickHandler.bind(store));
```

Trigger

jQuery

```
$("#tab1").on("click", function(e, arg1, arg2) {  
    console.log(e, arg1, arg2);  
});
```

```
$("#tab1").trigger("click");
```

```
$("#tab1").trigger("click", ["arg1", "arg2"]);
```

Trigger

Native

```
document.getElementById("tab1")  
  .addEventListener("click", function(e) {  
    console.log(e, e.detail);  
  });
```

```
var event = new Event("click");  
document.getElementById("tab1").dispatchEvent(event);
```

```
event = new CustomEvent("click", {  
  detail: ["arg1", "arg2"]  
});  
document.getElementById("tab1").dispatchEvent(event);
```

DOM Ready

jQuery: Option 1

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

jQuery: Option 2

```
$(function() {  
    //DOM is ready  
});
```


DOM Ready

Native: Option 1

```
<html>
<head></head>
<body>
    ...
    <script>
        //DOM is ready
    </script>
</body>
</html>
```

Native: Option 2

```
document.addEventListener("DOMContentLoaded",
    function() {});
```

DEMO

- **Bind/Unbind**
- **Delegate/Undelegate**
- **Prevent Default/Stop Propagation**
- **Target & Which**
- **Proxy**
- **Trigger**
- **DOM Ready**

Summary

```
var $btn = $("#save");
$btn.on("click",
    function(e) {});

$("#main").on(
    "click", "button",
    function(e) {}
);

$("#search").on(
    "click",
    $.proxy(store.search, store)
);

$("#search").trigger("click");
```

```
var btn = document.getElementById("save");
btn.addEventListener("click", function(e) {});

var main = document.getElementById("main");
main.addEventListener("click", function(e) {
    var elem = e.target.closest("button", this);
    if (elem) {}
});

document.getElementById("search")
    .addEventListener("click",
        store.search.bind(store));

var event = new Event("click");
document.getElementById("search")
    .dispatchEvent(event);
```