

# jQuery AJAX

[Home](#) > [jQuery](#) > jQuery AJAX

AJAX = Asynchronous JavaScript and XML.

In short; AJAX is about loading data in the background and display it on the webpage, without reloading the whole page.

Examples of applications using AJAX: Gmail, Google Maps, Youtube, and Facebook tabs.

jQuery provides several methods for AJAX functionality.

With the jQuery AJAX methods, you can request text, HTML, XML, or JSON from a remote server using both HTTP Get and HTTP Post - And you can load the external data directly into the selected HTML elements of your web page!

## load()

This method loads data from a server and puts the returned data into the selected element.

```
$("#div1").load("test.txt");
```

javascript

The optional callback parameter specifies a callback function to run when the load() method is completed. The callback function can have different parameters:

- responseTxt - contains the resulting content if the call succeeds
- statusTxt - contains the status of the call
- xhr - contains the XMLHttpRequest object

The following example displays an alert box after the load() method completes. If the load() method has succeeded, it displays "External content loaded successfully!", and if it fails it displays an error message:

```
$("button").click(function(){
    $("#div1").load("test.txt", function(responseTxt, statusTxt, xhr){
        if(statusTxt == "success")
            alert("External content loaded successfully!");
        if(statusTxt == "error")
            alert("Error: " + xhr.status + ": " + xhr.statusText);
    });
});
```

javascript

## Lab:

- jquery\jquery-ajax\jquery-ajax-load.htm
- jquery\jquery-ajax\test.txt

## \$.get()

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The method requests data from the server with an HTTP GET request.

HTTP GET: Requests data from a specified resource GET is basically used for just getting (retrieving) some data from the server. Note: The GET method may return cached data.

The following example uses the \$.get() method to retrieve data from a file on the server:

```
$("#button").click(function(){
    $.get("test_get.php", function(data, status){
        alert("Data: " + data + "\nStatus: " + status);
    });
});
```

javascript

**Lab:** \* jquery\jquery-ajax\jquery-ajax-get.htm \* jquery\jquery-ajax\test\_get.php

## Calling GET request with variable

Try to modify the code above, pass in variable along with the request.

**Lab:** \* jquery\jquery-ajax\jquery-ajax-get2.htm \* jquery\jquery-ajax\test\_get.php

## \$.post()

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This method requests data from the server using an HTTP POST request.

HTTP POST: Submits data to be processed to a specified resource POST can also be used to get some data from the server. However, the POST method NEVER caches data, and is often used to send data along with the request.

The following example uses the \$.post() method to send some data along with the request:

```
$("#button").click(function(){
    $.post("test_post.php",
    {
        name: "Ironman",
        city: "New York"
    },
    function(data, status){
        alert("Data: " + data + "\nStatus: " + status);
    });
});
```

**Lab:**

- jquery\jquery-ajax\jquery-ajax-post.htm
- jquery\jquery-ajax\test\_post.php

**Adding more parameter**

Can you add another post variable named 'country'? You will need to modify both the html and php file

**Lab:** \* jquery\jquery-ajax\jquery-ajax-post2.htm \* jquery\jquery-ajax\test\_post2.php