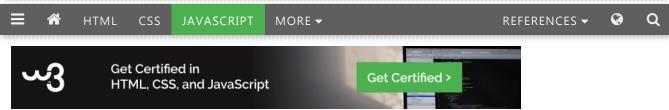
## ш3schools.com





## AJAX - The XMLHttpRequest Object



The keystone of AJAX is the XMLHttpRequest object.

## The XMLHttpRequest Object

All modern browsers support the XMLHttpRequest object.

The XMLHttpRequest object can be used to exchange data with a web server behind the scenes. This means that it is possible to update parts of a web page, without reloading the whole page.

## Create an XMLHttpRequest Object

All modern browsers (Chrome, Firefox, IE7+, Edge, Safari, Opera) have a built-in XMLHttpRequest object.

Syntax for creating an XMLHttpRequest object:

```
variable = new XMLHttpRequest();
Example
var xhttp = new XMLHttpRequest();

Try it Yourself »
```

#### **Access Across Domains**

For security reasons, modern browsers do not allow access across domains.

This means that both the web page and the XML file it tries to load, must be located on the same server.

The examples on W3Schools all open XML files located on the W3Schools domain.

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If you want to use the example above on one of your own web pages, the XML files you load must be located on your own server.



## Older Browsers (IE5 and IE6)

Old versions of Internet Explorer (5/6) use an ActiveX object instead of the XMLHttpRequest object:

```
variable = new ActiveXObject("Microsoft.XMLHTTP");
```

To handle IE5 and IE6, check if the browser supports the XMLHttpRequest object, or else create an ActiveX object:

```
if (window.XMLHttpRequest) {
    // code for modern browsers
    xmlhttp = new XMLHttpRequest();
} else {
    // code for old IE browsers
    xmlhttp = new ActiveXObject("Microsoft.XMLHTTP");
}
Try it Yourself »
```

## XMLHttpRequest Object Methods

Method	Description
new XMLHttpRequest()	Creates a new XMLHttpRequest object
abort()	Cancels the current request
getAllResponseHeaders()	Returns header information
getResponseHeader()	Returns specific header information
open(method, url, async, user, psw)	Specifies the request
	method: the request type GET or POST
	url: the file location
	async: true (asynchronous) or false (synchronous)
	user: optional user name
	psw: optional password

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send()	Sends the request to the server Used for GET requests
send( <i>string</i> )	Sends the request to the server. Used for POST requests
setRequestHeader()	Adds a label/value pair to the header to be sent

# XMLHttpRequest Object Properties

Property	Description
onreadystatechange	Defines a function to be called when the readyState property changes
readyState	Holds the status of the XMLHttpRequest. 0: request not initialized 1: server connection established 2: request received 3: processing request 4: request finished and response is ready
responseText	Returns the response data as a string
responseXML	Returns the response data as XML data
status	Returns the status-number of a request 200: "OK" 403: "Forbidden" 404: "Not Found" For a complete list go to the <a href="http://example.com/Http-Messages Reference">Http Messages Reference</a>
statusText	Returns the status-text (e.g. "OK" or "Not Found")



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