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[**http://tutorials.jenkov.com/jquery/ajax.html**](http://tutorials.jenkov.com/jquery/ajax.html)

[**http://www.sitepoint.com/jqxhr-object/**](http://www.sitepoint.com/jqxhr-object/)

[**http://api.jquery.com/jquery.ajax/**](http://api.jquery.com/jquery.ajax/)

## jQuery AJAX Example

Here is first a jQuery AJAX example showing how to make an AJAX call in jQuery:

var jqxhr =

$.ajax({

url: "/theServiceToCall.html",

data: {

name : "The name",

desc : "The description"

}

})

.done (function(data, textStatus, jqXHR) { alert("Success: " + response) ; })

.fail (function(jqXHR, textStatus, errorThrown) { alert("Error") ; })

.always(function(jqXHROrData, textStatus, jqXHROrErrorThrown) { alert("complete"); })

;

First the $.ajax() function is called. To this function is passed a JavaScript object which contains information about the AJAX call to make. In the example this object contains the URL and data to be sent to the server.

The $.ajax() function returns an object. On this object the example calls three functions: done(), fail() andalways().

The done() function is given a function as parameter. The callback function passed as parameter to the done()function is executed if the AJAX request succeeds. The callback function gets three parameters: data, textStatusand jqXHR. The data parameter is the data returned by the server. The textStatus parameter is the textual status message returned by the server. The jqXHR parameter is the jqXHR object which is also returned by the $.ajax()function.

The fail() is also given a function as parameter. The callback function passed as parameter to the fail() function is called if the AJAX request fails. The callback function gets three parameters: jqXHR, textStatus anderrorThrown. The jqXHR parameter is the jqXHR object also returned by the $.ajax() function. The textStatus is the textual status message returned by the server. The errorThrown parameter is the error thrown by jQuery.

The callback function passed to the always() function is called whenever the AJAX request finishes, regardless of whether or not the AJAX request succeeds or fails. The three parameters passed to the callback function will be either the same three parameters passed to done() or fail(), depending on whether the AJAX request succeeds or fails.

### jQuery AJAX Before Version 1.8.0

Before version 1.8.0 of jQuery the object returned from the jQuery $.ajax() function did not contain the done(),fail() and always() functions. Instead, these functions were called success(), error() and complete().

**The jqXHR Object**

The jqXHR object returned by many of jQuery's AJAX functions contains some useful information. Note, that some of this information is not available until the web server has sent back a response, meaning it is available from inside thedone(), fail() or always() callback functions.

The jqXHR object contains these properties and functions:

* status
* statusText
* responseText
* responseXML
* getAllResponseHeaders()
* getResponseHeader()
* abort()

The status property contains the HTTP status code (e.g. 200 or 404 etc.) sent back by the web server.

The statusText property contains the text success or error depending on whether the AJAX request succeeded or failed.

The responseText contains the body of the HTTP response sent back by the server, if the response is sent as text (e.g. content type text/html, text/plain or application/json).

The responseXML property contains the body of the HTTP response sent back by the server, if the response is sent back as XML (e.g. content type text/xml or application/xml).

The getAllResponseHeaders() return the HTTP response headers as a string. Each header is listed on its own line with a header name, colon and header value. For instance:

Content-Encoding: gzip

Server: Jetty(9.2.1.v20140609)

Content-Length: 54

Content-Type: application/json

The getResponseHeader() function can be used to access individual HTTP response headers. You pass the name of the HTTP header like this:

var contentType = jqXHR.getResponseHeader("Content-Type");

The abort() function on the jqXHR object can be used to abort the AJAX (HTTP) request before it finishes. You should call this function before any of the done(), fail() or always() callback functions are called. These callback functions are called when the server has sent back a response, and at that time it is too late to abort the AJAX call.