



AJAX - Server Response

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The onreadystatechange Property

The **readyState** property holds the status of the XMLHttpRequest.

The **onreadystatechange** property defines a function to be executed when the readyState changes.

The **status** property and the **statusText** property holds the status of the XMLHttpRequest object.

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
status	200: "OK" 403: "Forbidden" 404: "Page not found" For a complete list go to the Http Messages Reference
statusText	Returns the status-text (e.g. "OK" or "Not Found")

The onreadystatechange function is called every time the readyState changes.

When readyState is 4 and status is 200, the response is ready:

Example

```
function loadDoc() {  
  var xhttp = new XMLHttpRequest();  
  xhttp.onreadystatechange = function() {  
    if (this.readyState == 4 && this.status == 200) {
```

```

        document.getElementById("demo").innerHTML =
            this.responseText;
    }
};
xhttp.open("GET", "ajax_info.txt", true);
xhttp.send();
}

```

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The onreadystatechange event is triggered four times (1-4), one time for each change in the readyState.



Using a Callback Function

A callback function is a function passed as a parameter to another function.

If you have more than one AJAX task in a website, you should create one function for executing the XMLHttpRequest object, and one callback function for each AJAX task.

The function call should contain the URL and what function to call when the response is ready.

Example

```

loadDoc("url-1", myFunction1);

loadDoc("url-2", myFunction2);

function loadDoc(url, cFunction) {
    var xhttp;
    xhttp = new XMLHttpRequest();
    xhttp.onreadystatechange = function() {
        if (this.readyState == 4 && this.status == 200) {
            cFunction(this);
        }
    };
    xhttp.open("GET", url, true);
    xhttp.send();
}

function myFunction1(xhttp) {
    // action goes here
}

function myFunction2(xhttp) {

```

```
// action goes here  
}
```

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Server Response Properties

Property	Description
responseText	get the response data as a string
responseXML	get the response data as XML data

Server Response Methods

Method	Description
getResponseHeader()	Returns specific header information from the server resource
getAllResponseHeaders()	Returns all the header information from the server resource

The responseText Property

The **responseText** property returns the server response as a JavaScript string, and you can use it accordingly:

Example

```
document.getElementById("demo").innerHTML = xhttp.responseText;
```

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The responseXML Property

The XMLHttpRequest object has an in-built XML parser.

The **responseXML** property returns the server response as an XML DOM object.

Using this property you can parse the response as an XML DOM object:

Example

Request the file [cd_catalog.xml](#) and parse the response:

```
xmlDoc = xhttp.responseXML;
```

```
txt = "";
x = xmlDoc.getElementsByTagName("ARTIST");
for (i = 0; i < x.length; i++) {
    txt += x[i].childNodes[0].nodeValue + "<br>";
}
document.getElementById("demo").innerHTML = txt;
xhttp.open("GET", "cd_catalog.xml", true);
xhttp.send();
```

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You will learn a lot more about XML DOM in the DOM chapters of this tutorial.

The getAllResponseHeaders() Method

The **getAllResponseHeaders()** method returns all header information from the server response.

Example

```
var xhttp = new XMLHttpRequest();
xhttp.onreadystatechange = function() {
    if (this.readyState == 4 && this.status == 200) {
        document.getElementById("demo").innerHTML =
            this.getAllResponseHeaders();
    }
};
```

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The getResponseHeader() Method

The **getResponseHeader()** method returns specific header information from the server response.

Example

```
var xhttp = new XMLHttpRequest();
xhttp.onreadystatechange = function() {
    if (this.readyState == 4 && this.status == 200) {
        document.getElementById("demo").innerHTML =
            this.getResponseHeader("Last-Modified");
    }
};
xhttp.open("GET", "ajax_info.txt", true);
xhttp.send();
```