***Notes to remember***

When exchanging data between a browser and a server, the data can only be text.

In JSON, string values must be written with double quotes

Update a web page without reloading the page

The keystone of AJAX is the XMLHttpRequest object.

***Some important tags***

New XMLHttpRequest() **getAllResponseHeaders()** this.getResponseHeader()

JSON.stringify() JSON.parse(myJSON)

***AJAX*** ***syntax***

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();  
}

|  |  |
| --- | --- |
| 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 |
| send() | Sends the request to the server Used for GET requests |
| send(*string*) | Sends the request to the server. Used for POST requests |
|  |  |
| setRequestHeader() | Adds a label/value pair to the header to be sent |
| 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 [Http Messages Reference](https://www.w3schools.com/tags/ref_httpmessages.asp) |
| statusText | Returns the status-text (e.g. "OK" or "Not Found") |