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AJAX Live Search: The JavaScript File

When a user types a character in the input field above, the function [showResult](#) is executed. If the input field is empty (`str.length==0`), the function clears the content of the `livesearch` placeholder and exits the function. If the input field is not empty, the `showResult()` function executes the following:

1. Create an [XMLHttpRequest](#) object.
2. Create the function to be executed when the server response is ready.
3. Send the request off to a file on the server.
4. A parameter (`q`) with the value of the content of the input field is added to the URL.

```
01 function showResult( str ) {
02     if ( str.length == 0 ) {
03         document.getElementById("livesearch").innerHTML = "";
04         document.getElementById("livesearch").style.border = "0px";
05         return;
06     }
07     if ( window.XMLHttpRequest ) {
08         // code for IE7+, Firefox, Chrome, Opera, Safari
09         xmlhttp = new XMLHttpRequest( );
10     }
11     else {
12         // code for IE6, IE5
13         xmlhttp = new ActiveXObject("Microsoft.XMLHTTP");
14     }
15     xmlhttp.onreadystatechange = function( ) {
16         if ( ( xmlhttp.readyState == 4 ) &&
17             ( xmlhttp.status == 200 ) ) {
18             document.getElementById("livesearch").innerHTML =
19                 xmlhttp.responseText;
20             document.getElementById("livesearch").style.border =
21                 "1px solid #A5ACB2";
```

```
22     }  
23   }  
24   xmlhttp.open( "GET", "liveSearch.php?q="+str, true );  
25   xmlhttp.send( );  
26 }
```

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