

### Typical Ajax Call

```
$.ajax({ // $.post, $.get and $.getJSON are preferred
  url: "demo_test.txt",
  type: "GET or POST",
  contentType: "application/x-www-form-urlencoded"
},
  contentType: "application/json"
complete(xhr,status),
error(xhr,status,error),
success: function(result,status,xhr){
  $("#div1").html(result);
}
});

var xhttp = new XMLHttpRequest();
xhttp.onreadystatechange = function() {
  // readyState 4 = request finished.
  if (this.readyState == 4 && this.status == 200) {
    // Do Stuff
  }
};
xhttp.open("GET", "url", true);
// var data = JSON.stringify( {email: "hello", password: "101010"} );
xhttp.send(data or "Query Params");
```

### JQuery AJAX GET POST getJSON Shorthand

```
var request = $.get( // Also $.post or $.getJSON
  "example.php",
  { time: "2pm", color: "red", choices: ["John", "Susan"] },
  function( data, textStatus, jqXHR ) {
    alert( "success" );
  }).done(function( data, textStatus, jqXHR ) {
    alert( "second success" );
  }).fail(function( data, textStatus ) {
    alert( "error" );
  }).always(function( data, textStatus, jqXHR ) {
    alert( "finished" );
  });
```

\$.post form data can be serialized with: `$("#myform").serialize()`

QueryString params for \$.get can be generated (from a hash) with `$.param( myHash )`

### Loading Scripts and Remote Page Fragments

|                                                      |                                                                                   |
|------------------------------------------------------|-----------------------------------------------------------------------------------|
| <code>\$("#myDiv").load("demo_test.txt");</code>     | loads the content of the file "demo_test.txt" into #myDiv element                 |
| <code>\$("#myDiv").load("demo_test.txt #p1");</code> | Parses DOM from demo_test.txt for #p1 and loads content of #p1 into #myDiv        |
| <code>\$.getScript("demo_ajax_script.js");</code>    | Load a JavaScript file from the server using a GET HTTP request, then execute it. |

### JQuery Low Level Interface

|                                     |                                                                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <code>\$.ajaxPrefilter()</code>     | Handle custom Ajax options or modify existing options before each request is sent and before they are processed by <code>\$.ajax()</code> |
| <code>jQuery.ajaxSetup()</code>     | Set global default values for future Ajax requests. <b>Its use is not recommended.</b>                                                    |
| <code>jQuery.ajaxTransport()</code> | Creates an object that handles the actual transmission of Ajax data                                                                       |

