

 무료 전자 책

배우기

ajax

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1:

AJAX (JavaScript XML) . (XMLHttpRequests) javascript .

AJAX

AJAX () XMLHttpRequest .

Examples

AJAX ?

AJAX JavaScript XML . XMLHttpRequest . JSON, XML, HTML . -Mozilla 2016

AJAX jQuery .

jQuery ?

jQuery JavaScript . API HTML , , Ajax . -jquery.com

jQuery . AJAX . AJAX !

jQuery

Ajax jQuery . <http://jquery.com/download/> jquery . jQuery CDN . <http://jquery.com/download/#jquery-39-s-cdn-provided-by-maxcdn> . CDN . jquery . . HTML jquery . . <http://jquery.com/download/#jquery> . jquery **jQuery 3.1.1** . jquery-version.min.js javascript jquery-version.min.js . src = jquery / location .

```
<head>
<script src="path/from/html/page/to/jquery.min.js"></script>
</head>
```

CDN . <http://jquery.com/download/#using-jquery-with-a-cdn> CDN (Content Delivery Network)

```
<head>
<script src="https://code.jquery.com/jquery-3.1.1.min.js" integrity="sha256-hVVnYaiADRTO2PzUGmuLJr8BLUSjGIZsDYGmIJLv2b8=" crossorigin="anonymous"></script>
</head>
```

CDN . html .

```
<script>
$(document).ready(function(){
    alert("jQuery Works")
});
</script>
```

jQuery .

jQuery

[jQuery.ajax API](#) :

```
$.ajax({
  method: "POST",
  url: "some.php",
  data: {
    name: "John",
    location: "Boston"
  },
  success: function(msg) {
    alert("Data Saved: " + msg);
  },
  error: function(e) {
    alert("Error: " + e);
  }
});
```

jQuery .

- \$.ajax - jQuery ajax .
- method: "POST" - POST . !
- url -
- data -
- success - msg . msg .
- error - ajax .
- .done

```
success: function(result) {
    // do something
};
```

-

.

```

$('form.ajaxSubmit').on('submit',function(){
    // initialization...
    var form    = $(this);
    var formUrl  = form.attr('action');
    var formType = form.attr('method');
    var formData = form.serialize();

    $.ajax({
        url: formUrl,
        type: formType,
        data: formData,
        async: true,
        success: function(data) {
            // .....
        }
    });
    //// code flows through without waiting for the call to complete
    return false;
});

```

```

$('form.ajaxSubmit').on('submit',function(){
    // initialization...
    var form    = $(this);
    var formUrl  = form.attr('action');
    var formType = form.attr('method');
    var formData = form.serialize();
    var data = $.ajax({
        url: formUrl,
        type: formType,
        data: formData,
        async: false
    }).responseText;
    //// waits for call to complete
    return false;
});

```

XMLHttpRequest Ajax

```

var httpRequest = new XMLHttpRequest();

httpRequest.onreadystatechange = getData;

httpRequest.open('GET', 'https://url/to/some.file', true);
httpRequest.send();

function getData(){
    if (httpRequest.readyState === XMLHttpRequest.DONE) {
        alert(httpRequest.responseText);
    }
}

```

new XMLHttpRequest() *XMLHttpRequest* .

onreadystatechange getData() .

.open() . ('GET','POST'), URL,

.send() - .send(data) .

getData() . readyState **DONE** responseText .

MDN .

ajax

(es2015) .

```
function ajax(url, callback) {
  var xhr;

  if(typeof XMLHttpRequest !== 'undefined') xhr = new XMLHttpRequest();
  else {
    var versions = ["MSXML2.XmlHttp.5.0",
                   "MSXML2.XmlHttp.4.0",
                   "MSXML2.XmlHttp.3.0",
                   "MSXML2.XmlHttp.2.0",
                   "Microsoft.XmlHttp"]

    for(var i = 0, len = versions.length; i < len; i++) {
      try {
        xhr = new ActiveXObject(versions[i]);
        break;
      }
      catch(e){}
    } // end for
  }

  xhr.onreadystatechange = ensureReadiness;

  function ensureReadiness() {
    if(xhr.readyState < 4) {
      return;
    }

    if(xhr.status !== 200) {
      return;
    }

    // all is well
    if(xhr.readyState === 4) {
      callback(xhr);
    }
  }

  xhr.open('GET', url, true);
  xhr.send('');
}
```

:

```
ajax('myFile.html', function(response) {
  document.getElementById('container').innerHTML = response.responseText;
```

```
});
```

EcmaScript 6 (es2015) `fetch` .

```
fetch('myFile.json').then(function(res) {  
  return res.json();  
});
```

es2015 furtherner :

TypeScript AJAX

AJAX TypeScript .

```
declare var document;  
declare var xhr: XMLHttpRequest;  
  
window.onload = () =>  
{  
  Start();  
};  
  
function Start()  
{  
  // Setup XMLHttpRequest (xhr).  
  if(XMLHttpRequest)  
  {  
    xhr = new XMLHttpRequest();  
  }  
  else  
  {  
    xhr = new ActiveXObject("Microsoft.XMLHTTP");  
  }  
  
  AttachEventListener(document.body, "click", HandleCheckBoxStateChange);  
}  
  
function AttachEventListener(element: any, e, f)  
{  
  // W3C Event Model.  
  if(element.addEventListener)  
  {  
    element.addEventListener(e, f, false);  
  }  
  else if(element.attachEvent)  
  {  
    element.attachEvent("on" + e, (function(element, f)  
    {  
      return function()  
      {  
        f.call(element, window.event);  
      }  
    });  
  })  
  (element, f));  
}
```



```

    element = null;
}

function HandleCheckBoxStateChange(e)
{
    var element = e.target || e.srcElement;

    if(element && element.type == "checkbox")
    {
        if(element.checked)
        {
            AddProductToCart(element);
        }
        else
        {
            // It is un-checked.
            // Remove item from cart.
        }
    }
    else
    {
        break;
    }
}

AddProductToCart(e)
{
    var element = <HTMLInputElement>document.getElementById(e.id);

    // Add the product to the Cart (Database table)
    xhr.onreadystatechange = function()
    {
        if(xhr.readyState == 4)
        {
            if(xhr.status == 200)
            {
                if(element != null)
                {
                    console.log("200: OK");
                }
                else
                {
                    console.log(":-(");
                }
            }
            else
            {
                // The server responded with a different response code; handle accordingly.
                // Probably not the most informative output.
                console.log(":-(");
            }
        }
    }

    var parameters = "ProductID=" + encodeURIComponent(e.id) + "&" + "Action=Add&Quantity=" +
    element.value;

    xhr.open("POST", "../Cart.cshtml");
    xhr.setRequestHeader("Content-type", "application/x-www-form-urlencoded");
    xhr.setRequestHeader("Content-length", parameters.length.toString());
    xhr.setRequestHeader("Connection", "close");
}

```

```
xhr.send(parameters);  
  
return e.id;  
}
```

. **C#** Cart.cshtml . cshtml php cshtml .

: [https://riptutorial.com/ko/ajax/topic/1082/-](https://riptutorial.com/ko/ajax/topic/1082/)

2:

Examples

""

2xx HTTP ([RFC 2616 10](#)).

`$.ajaxSetup()` . . .

```
$.ajaxSetup({
  error: function (jqXHR, exception, errorThrown) {
    var message;
    var statusErrorMap = {
      '400': "Server understood the request, but request content was invalid.",
      '401': "Unauthorized access.",
      '403': "Forbidden resource can't be accessed.",
      '500': "Internal server error.",
      '503': "Service unavailable."
    };
    if (jqXHR.status) {
      message = statusErrorMap[jqXHR.status];
      if (!message) {
        message = "Unknown Error.";
      }
    } else if (exception == 'parsererror') {
      message = "Error.\nParsing JSON Request failed.";
    } else if (exception == 'timeout') {
      message = "Request Time out.";
    } else if (exception == 'abort') {
      message = "Request was aborted by the server";
    } else {
      message = "Unknown Error.";
    }

    // How you will display your error message...
    console.log(message);
    console.log(errorThrown);
  }
});
```

`error $.ajax()` "" .

```
$.ajax({
  url: './api',
  data: { parametersObject },
  type:'post',
  dataType: 'json',
  success:function(output){
    // Interpret success
  },
  error: function(xhr,textStatus,ErrorThrown){
    // Specific error will not be interpreted by $.ajaxSetup
  }
});
```

: <https://riptutorial.com/ko/ajax/topic/7175/>

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