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学习

ajax

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#ajax

.....	1
1: ajax	2
.....	2
Examples.....	2
.....	2
AJAX.....	2
jQuery.....	2
jQuery.....	2
jQuery.....	3
- ajax.....	3
XMLHttpRequestAjax.....	4
vanilla javascriptajax.....	5
TypeScriptAJAX.....	6
.....	6
2:	9
Examples.....	9
“”.....	9
.....	11

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1: ajax

AJAX JavaScript XMLHttpRequest javascript

AJAX javascript

AJAXXMLHttpRequest

Examples

AJAX

AJAXJavaScriptXML XMLHttpRequest JSONXMLHTML -Mozilla2016

AJAXjQuery

jQuery

jQueryJavaScript APIHTMLAjax -jquery.com

jQuery AJAX

jQuery

AjaxjQuery <http://jquery.com/download/jquery> jQueryCDN

<http://jquery.com/download/#jquery-39-s-cdn-provided-by-maxcdn> CDN jquery jqueryhtml

Downloaded <http://jquery.com/download/#jquery> jqueryjQuery 3.1.1jquery-version.min.js

javascriptsrc = jquery /

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

CDN <http://jquery.com/download/#using-jquery-with-a-cdn>CDN

```
<head>
<script src="https://code.jquery.com/jquery-3.1.1.min.js" integrity="sha256-
hVVnYaiADRT02PzUGmuLJr8BLUSjGIZsDYGmIJLv2b8=" 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 - jQueryajax。
- method: "POST" - POST。
- url - 。
- data - 。
- success - msg msg。
- error - ajax。
- .done

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

- ajax

ajax

ajax.

```
$('#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;
});
```

ajax

ajax.

```
$('#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;
});
```

XMLHttpRequestAjax

```
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 -
onreadystatechangegetData()
.open() - 'GET' 'POST' URL
.send() - .send(data)
getData() ◦ readyStateDONEresponseText ◦
MDN ◦
```

vanilla javascriptajax

vanilla javascriptajaxes2015

```
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 6es2015fetchpromise

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

es2015 Promises

TypeScriptAJAX

AJAXTypeScript

```
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◦ phpcshtml◦

ajax <https://riptutorial.com/zh-CN/ajax/topic/1082/ajax>

2:

Examples

“”

2xxHTTPRFC 261610。

\$.ajaxSetup()。ajaxajax。

```
$.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);
}
});
```

“”\$.ajax()error。

```
$.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/zh-CN/ajax/topic/7175/>

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