Communication

Author

Return of AJAX

Asynchronous Javascript And Xml but really

Asynchronous Javascript And Data

XMLHttpRequest

```
var r = new XMLHttpRequest();
r.onload = function () {
  alert(this.responseText);
r.open('get', 'test.txt', true);
r.send();
```

Content Types

Text

JSON

XML

pretty much anything

Beware...

Same Origin Policy

Restricts AJAX calls

Same hostname

Same port

CORS

Cross Origin Resource Sharing

Uses Access-Control-... headers

Access-Control-Allow-Origin: *

or

Access-Control-Allow-Origin: http://...

Preflight Checks

GET, HEAD, and Simple POST

No checks

PUT, DELETE, and Complex POST

Browser performs OPTIONS call first

Checks Access-Control-* headers

If OK, performs real call

IE (<10) is Weird

IE 7 & earlier: no support

IE 8 & 9: XDomainRequest

Only GET and POST

No custom headers

Request can only be text/plain

No authentication or cookies

Alternatives

JavaScript client on data / API server

Dropbox JS Client

HTTP/HTTPS Proxy on server

Zimbra, OpenSocial

JSONP

"JSON with Padding"

JSONP

```
<script>
var ns =
  document.createElement('script');
ns.src = 'http://...?callback=handler';
document.getElementById('X')
  .appendChild(ns);
function handler(data) {
</script>
```

Server Response

```
foo({
    "message": "Hello, World!"
});
```