

```
AJAX Sadness

// Mozilla/Safari
if (window.20MLHttpRequest) {
    self.xmlHttpReq = new XMLHttpRequest();
}
// IE
else if (window.ActiveXObject) {
    self.xmlHttpReq = new ActiveXObject("Microsoft.XMLHTTP");
}
self.xmlHttpReq.open('POST', strURL, true);
self.xmlHttpReq.open('POST', strURL, true);
self.xmlHttpReq.onreadystatechange = function() {
    if (self.xmlHttpReq.readyState == 4) {
        updatepage(self.xmlHttpReq.readyState == 4) {
        updatepage(self.xmlHttpReq.readyState == 4) {
        ly adatepage(self.xmlHttpReq.readyState);
    }
}
self.xmlHttpReq.send(getquerystring());

http://www.degraeve.com/reference/simple-ajax-example.php
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```

```
AJAX Happiness

$.post( 'http://foo.com/bar.php', {'param1': 7}, updatePage );

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```

## Discussion

- · Browser variation
- · Feature detection vs. user-agents
- · Abstractions and software engineering

### **Browser API Standardization**

- Event Objects
  - Internet Explorer: srcElement
  - Everyone Else: target
- · Similar, but with just enough difference
- · Could feature detect everywhere
- · Or just use jQuery to give you a standardized interface

### **DOM Manipulation**

```
// increase text size on every other list element
$('li:odd').css( 'font-size', '50px' );
// grab even elements from one list, append them to another ('#listA \ li:even').appendTo( '#listB' );
```

http://www.degraeve.com/reference/simple-ajax-example.php

**DOM Manipulation** 

```
// increase text size on every other list element ('li:odd').css('font-size', '50px');
// create one hundred new list items
for ( var i = 0; i < 100; ++i ) {
    $('<li>).text( "Item " + i ).appendTo( '#coolList' );
// grab even elements from one list, append them to another ('#listA \ li:even').appendTo( '#listB' );
```

- jQuery supports the selectors even for older browsers
- · Selector engine is highly optimized
- · Second example demonstrates chaining

http://www.degraeve.com/reference/simple-ajax-example.php

jQuery in Context



Javascript App Frameworks

Server Side (PHP, CGI, node.js)

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Aside on JavaScript



http://nodejs.org/

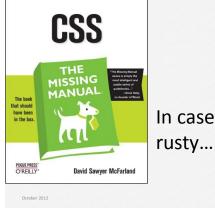
# 

# Aside on CDNs Example: Edgecast Users request files from the CDN, which has servers all over the world. The CDN originally pulls files from your servers, but after that caches them. Google CDN even allows for cross site caching. .... demo dev console network resources ....









In case you're rusty.....

```
Reminder

Tags

<h1></h1>
Attributes

<h1 style="color:pink"></h1>

Ids (unique per dom)

<h1 id="cheese"></h1>
#cheese { color: pink; }

Classes (may repeat, can assign multiple to dom element)

<h1 class="smelly cheese"></h1>
.smelly { color: pink; }
.cheese { font-size: 50px; }
```