

Ajax
design
challenges

**conceptual
metaphor**

time

make

take

save

movement

navigate

browse

surf

interaction

create

retrieve

update

delete

Sapir-Whorf hypothesis

It's really several technologies, each flourishing in its own right, coming together in powerful new ways.

— Jesse James Garrett

If the traditional web was letter writing, Ajax is instant messaging.

— Derek Powazek

Roller skates for the web.

— Bruce Sterling

*The name is shorthand for
Asynchronous JavaScript + XML.*

— Jesse James Garrett

Asynchronous JavaScript

And
XML

Asynchronous JavaScript

And
XML

HTML
JSON

Asynchronous JavaScript And DHTML XML DOM Scripting

Asynchronous JavaScript And XML

*Communicating with the server
without refreshing the whole page.*

— Me



frames

iframe

Flash

XMLHttpRequest

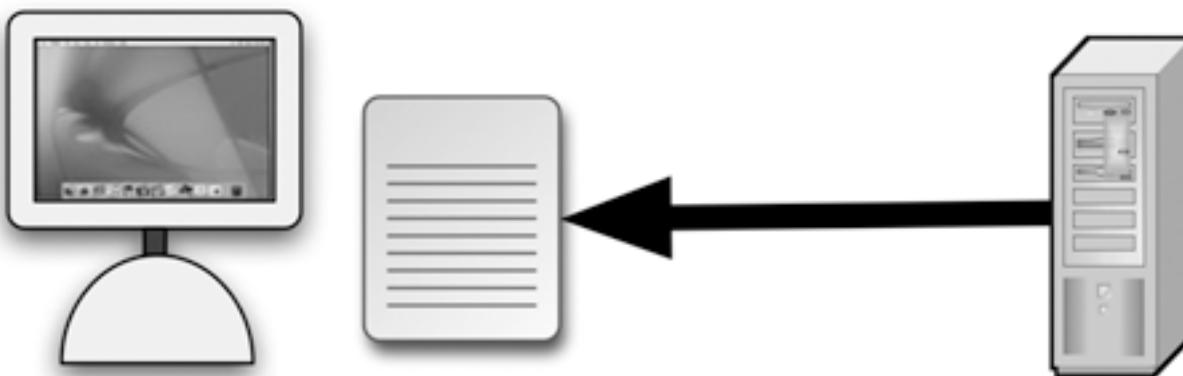
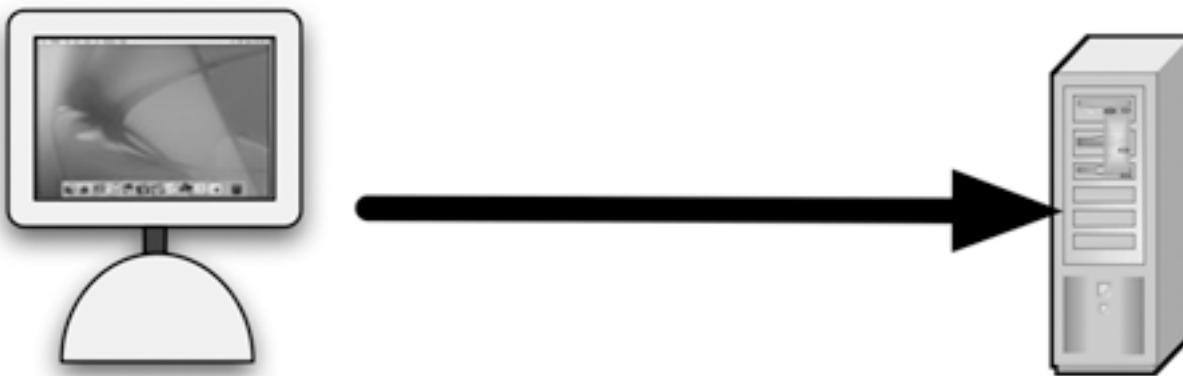
Microsoft IE5

Mozilla Safari Opera

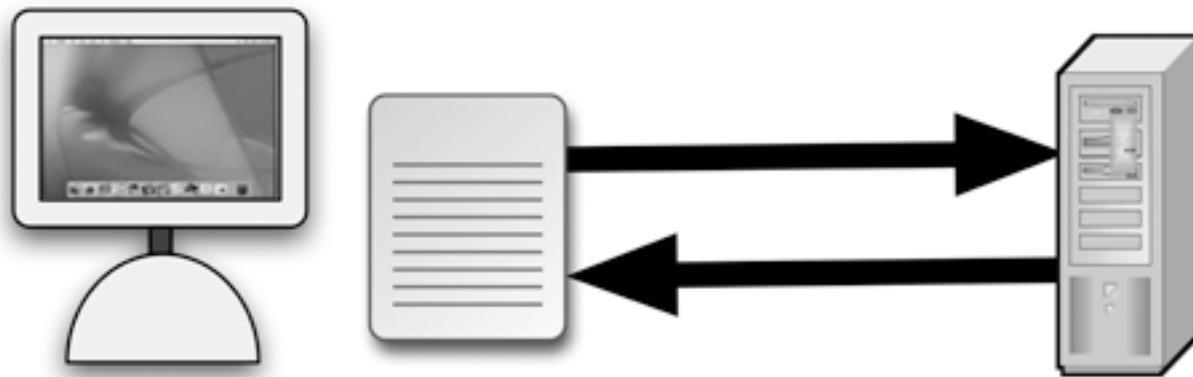
W3C

XMLHttpRequest

synchronous



asynchronous



XMLHttpRequest

**SELF
SERVICE**

mt.
50



thin client



rich client



APPEL

deceptively rich client



progressive
enhancement

behaviour

JavaScript

presentation

CSS

structure

HTML

content

```
<p>  
This is the introduction  
</p>
```

```
<p style="font-weight:bold">  
This is the introduction  
</p>
```

```
<p class="intro">  
This is the introduction  
</p>  
.intro { font-weight:bold; }
```

```
<a href="help.html">  
Need help?  
</a>  
  
<a href="help.html"  
on click="window.open  
(this.href) ; return false">  
Need help?  
</a>  
  
<a href="help.html"  
class="help">  
Need help?  
</a>
```

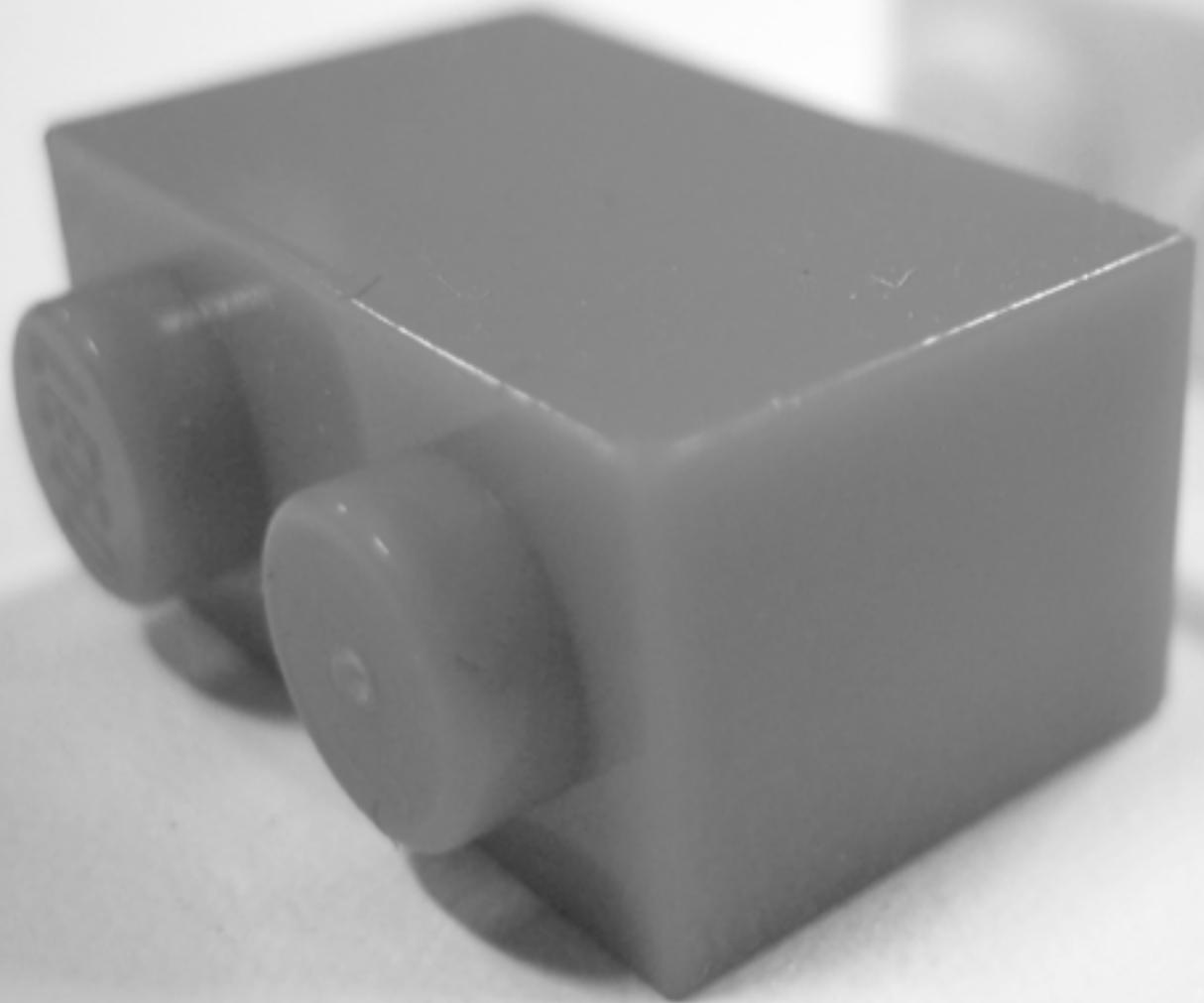
```
window.onload = function() {  
    // get links with class help  
    // loop through each one  
    link.onclick = function() {  
        window.open(this.href);  
        return false;  
    };  
};
```

beware

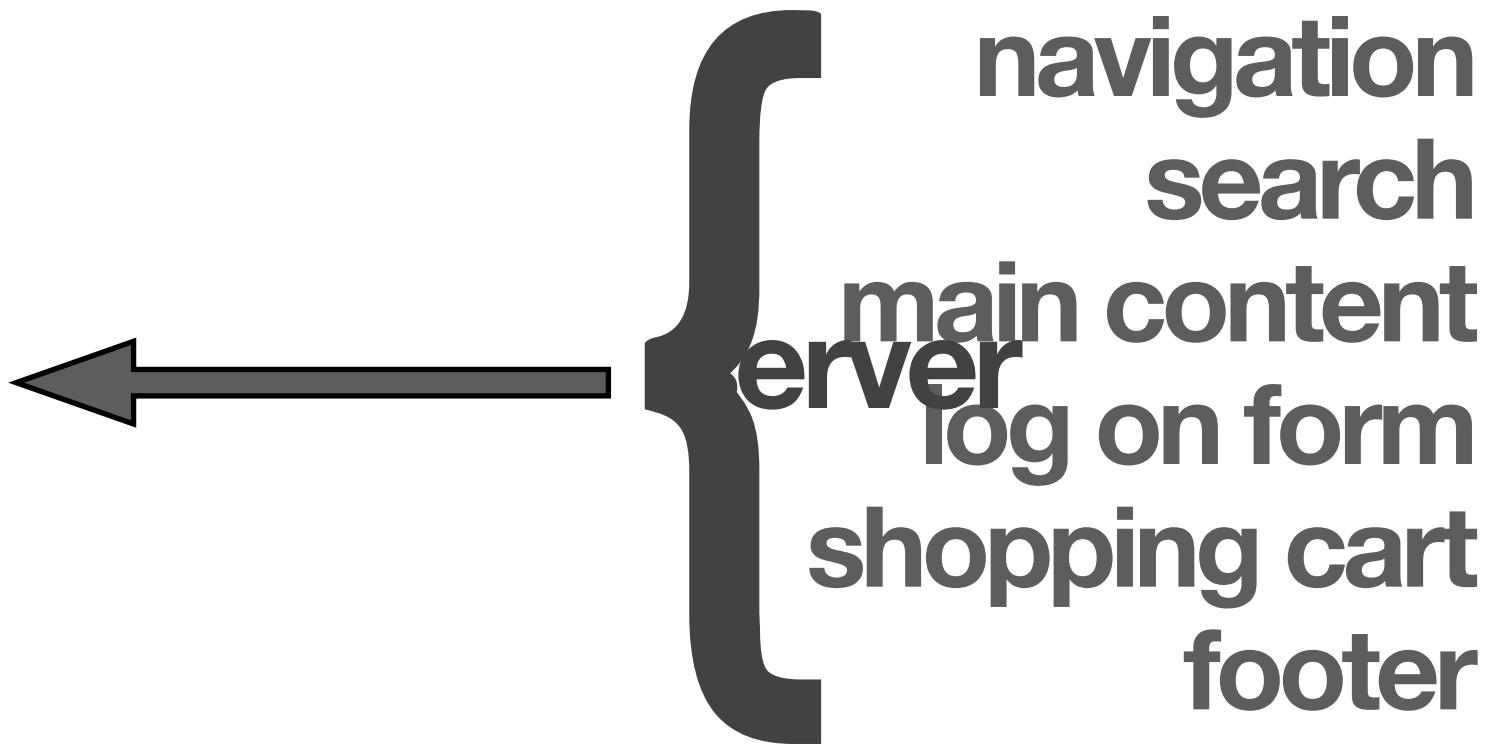
**progressive
enhancement**

XMLHttpRequest

Hüjax



browser



browser

 **XHR**

**navigation
search
main content
log on form
shopping cart
footer**

paradox?

plan for Ajax from the start

implement Ajax at the end

pattern recognition

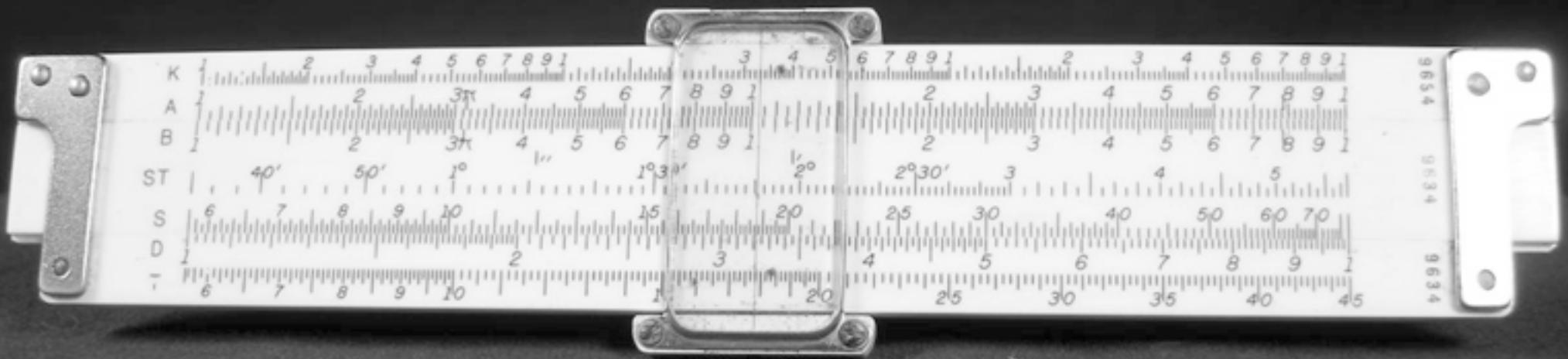
sign up add a comment

rate this add to cart

search results?

pagination?

documents



applications

WTF?

what is happening?

what just happened?

conventions

status indicators

yellow fade

drag'n'drop



**Push button
Wait for signal**

PEDESTRIANS
**YOUR
RED/GREEN
MAN SIGNAL IS
ON THE POLE
NEXT TO YOU**

RAMPANT HORSE STREET

beyond the browser

the back button

bookmarking



**libraries &
frameworks**

Software, like all technologies, is inherently political.

Code inevitably reflects the choices, biases and desires of its creators.

— Jamais Cascio

Find stuff and do stuff to it.

— jQuery

**rich
internet
applications**

rich
writing
typography
punctuation

thank you adactio.com



<http://flickr.com/photos/flydown/42047131/>
<http://flickr.com/photos/bizzygirl/291918549/>
<http://flickr.com/photos/benchan/150094224/>
<http://flickr.com/photos/rogerjones/121736518/>
<http://flickr.com/photos/chuckbiscuito/161971512/>