Scripting APIs for the Web

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Pretty, Pretty Good Wall

The Great Wall at Mutianyu.

Comments
AJAX
A.J.A.X
Ajax
Web APIs Working Group
Standardise existing behaviour wherever possible
Get implementors involved
Open channels of communication (in both directions)
Work quickly
XMLHttpRequest

Allows a script to asynchronously fetch data from a remote host.
var req = new XMLHttpRequest();
req.open('GET', '/favourite-animals', false);
req.send(null);

if (req.status == 200) {  // 200 is HTTP OK
    alert(req.getResponseHeader('Content-Type'));
    alert(req.responseText);
}
koala
kangaroo
wallaby
emu
platypus
echidna
wombat
- return codes
- setting headers
- security model
Window

An interface that allows a script to communicate with the browser context.
- location
- embedded documents
- timer methods
- security considerations
/ we don't need to use document.window as
/ window is the default ECMAscript context

/ create a function to be called in a while

function ping() {
    alert("Hello Ediburgh!");
}

/ call the ping function in 1000 milliseconds

var timerID = setTimeout(ping, 1000);
Window

http://www.w3.org/TR/Window
DOM Level 3

Events
• added support for namespaced events
• new event types
• deprecating/simplifying some features
• community feedback on whether event groups are needed
Remote Events for XML (REX)

http://www.w3.org/TR/REX
Selectors
XPath Selectors

```javascript
var imgs = document.evaluate("//img",
document, null, XPathResult.ANY_TYPE, null);
```
var imgs =

document.matchAll("img");
• DOM Level 3 Core
• Client side storage
• File upload
• Better networking
• Timers
Declarative vs Programmatic

Building a Web Operating System
thanks!!!