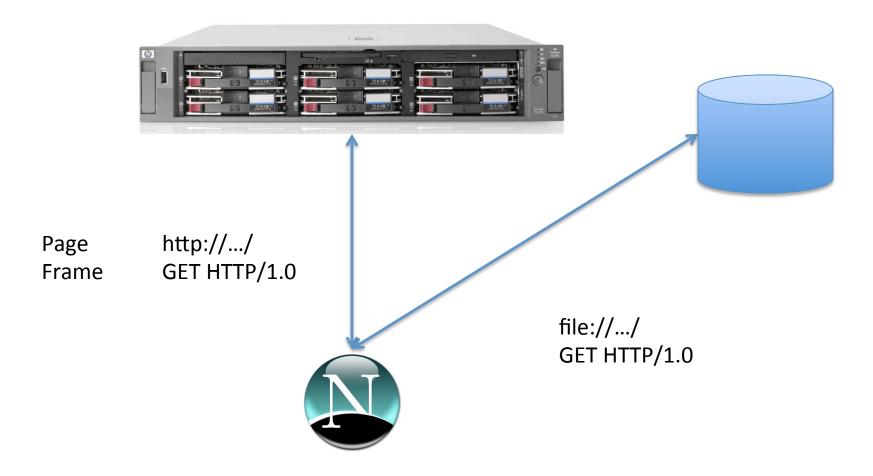
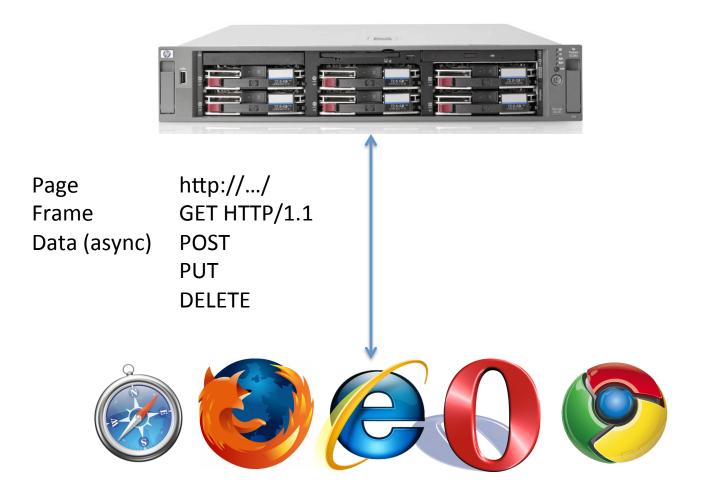
Server-Free Web Apps

Or... how to lose weight quickly

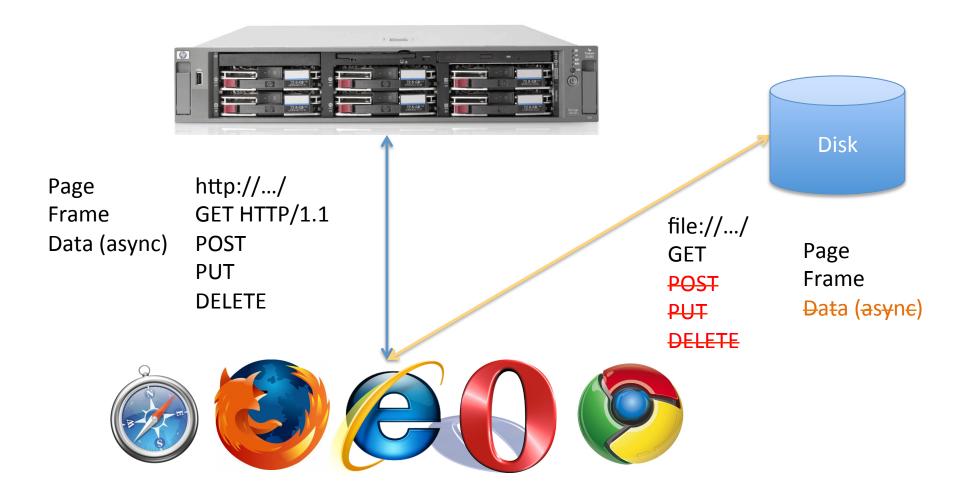
A Long, Long Time Ago...



It was the best of times...



...it was the worst of times.



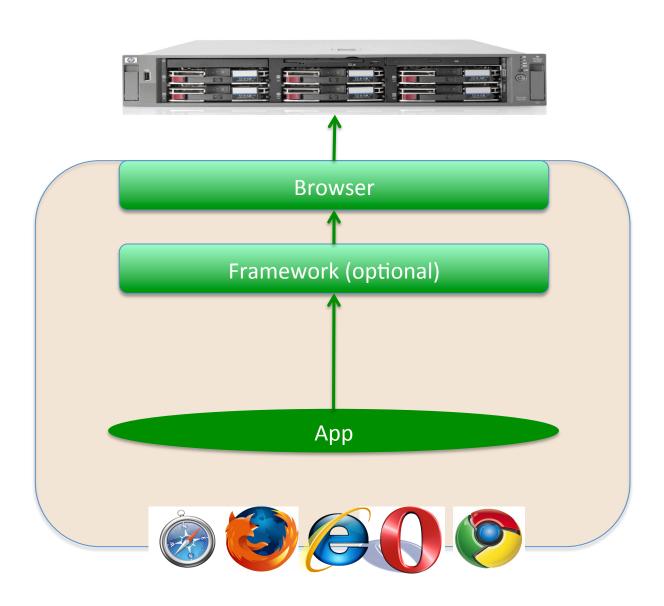
Wouldn't it be nice...



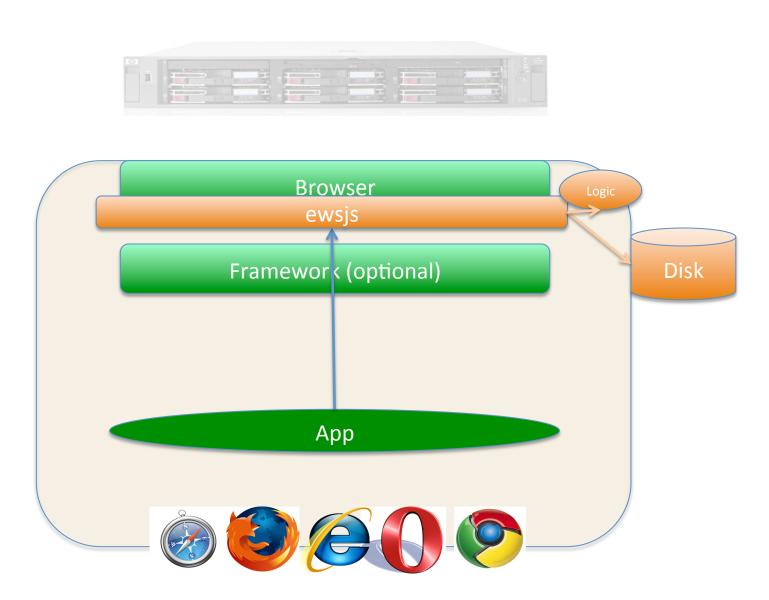
ewsjs: Yes, We Can!

- A Web server...
 - ... in the browser!
- Simulate everything
- Look like a server
- Well-designed clients are ignorant

The Way We Were...



Look, Ma, no server!



INSTALL.txt

- 1. Download: http://github.com/deitch/ewsjs
- 2. Include ewsjs.js

```
<script src="path/to/ewsjs.js" type="text/javascript"></script>
```

- 3. Write your own handler logic
- 4. Include your logic file

```
<script src="path/to/ewsjs-impl.js" type="text/javascript"></script>
```

5. Switch intelligently

Logic?

ewsjs provides

- EWS global
- Ajax call interception
- Load from file with caching
- URL rewriting

Your mission, should you...

- Register handlers per path
- Register auto handler
- Register URL rewrites



Register Handlers

• Tell EWS what path to send to which function EWS.registerHandler("/some/path",handler)

Include parameters, if you want

EWS.registerHandler("/users/:user/app/:app",handler)

Handler signature

```
handler = function(method, url, headers, data, db, params)
// method: one of "GET", "POST", "DELETE, "PUT
// url: original url called (not the rewritten one)
// headers: headers of the original request as JavaScript object
// data: parameters of the original request as JavaScript object
// db: internal EWS cache
// params: path parameters, e.g. {user: "avi", app: "god"}
```

Register Auto Handler

Fallback handler

EWS.registerAuto(handler)

Handler signature

```
handler = function(config)

// config object with the following properties:

// method: one of "GET", "POST", "DELETE, "PUT

// url: original url called (not the rewritten one)

// headers: headers of the original request as JavaScript object

// data: parameters of the original request

// db: internal EWS cache
```

Register Rewrites

- JavaScript RegExp or String rewriting
- Change one path to another

EWS.registerRewrite("/old/path/abc","/new/path/abc");

Use RegExp, capture elements

EWS.registerRewrite(/^\/old\/path\/(.*)/,"/new/path/\$1");

Switch Intelligently

Enable EWS

EWS.enable(boolean enabled);

One way: look at your original path

EWS.enable(window.location.protocol === "file:");

Working Demo

Demo ewsjs Page

This page demonstrates the embedded Web server http://code.google.com/p/ewsjs ewsjs library. To use this page, you can do some basic CRUD operations, which map to REST activities, entirely within the browser.

ID	First Name	Last Name	Delete Save
1	Mark	Hurd	Delete Save
3	Jodie	Fisher	Delete Save
NEW			Add New

Be Productive!

Thanks!

Avi Deitcher

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