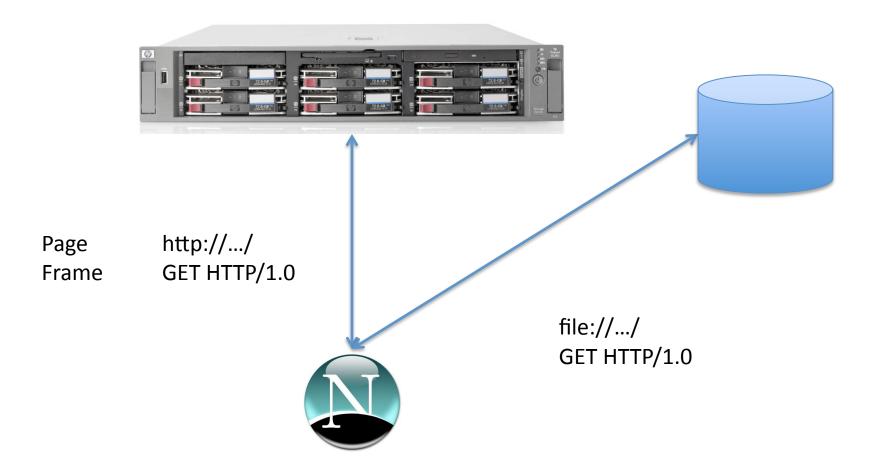
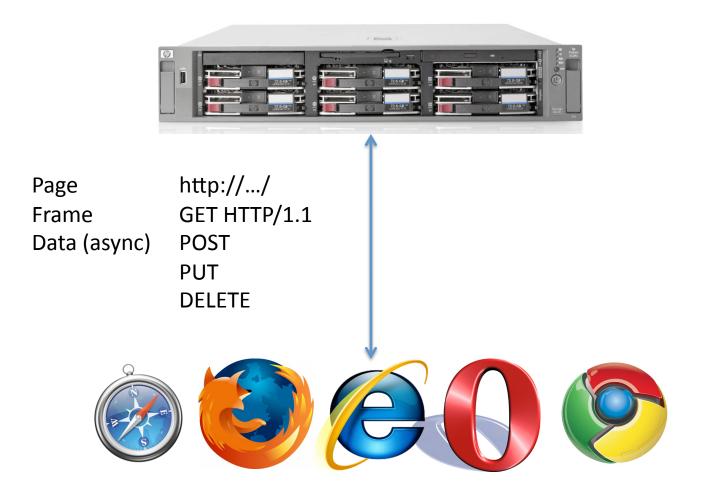
Server-Free Web Apps

Or... how to lose weight quickly

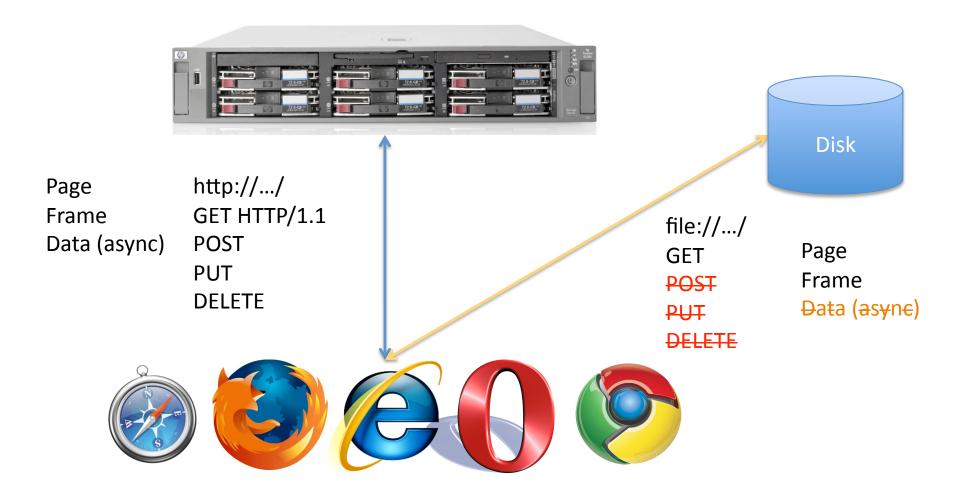
A Long, Long Time Ago...



It was the best of times...



...it was the worst of times.



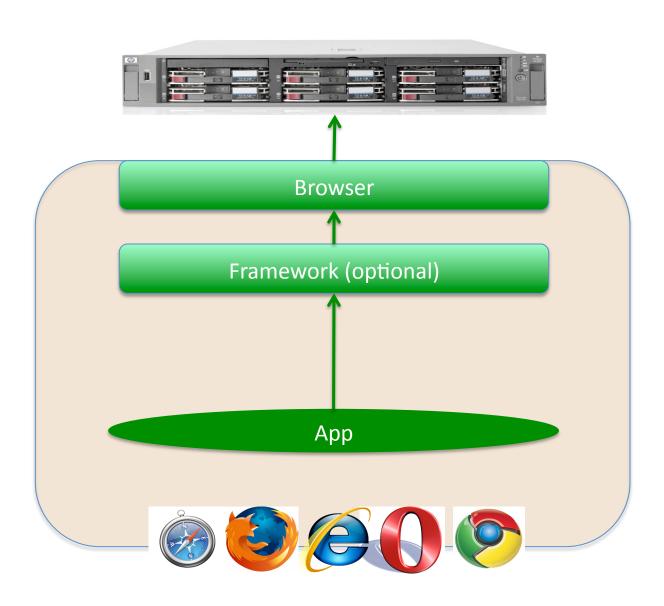
Wouldn't it be nice...



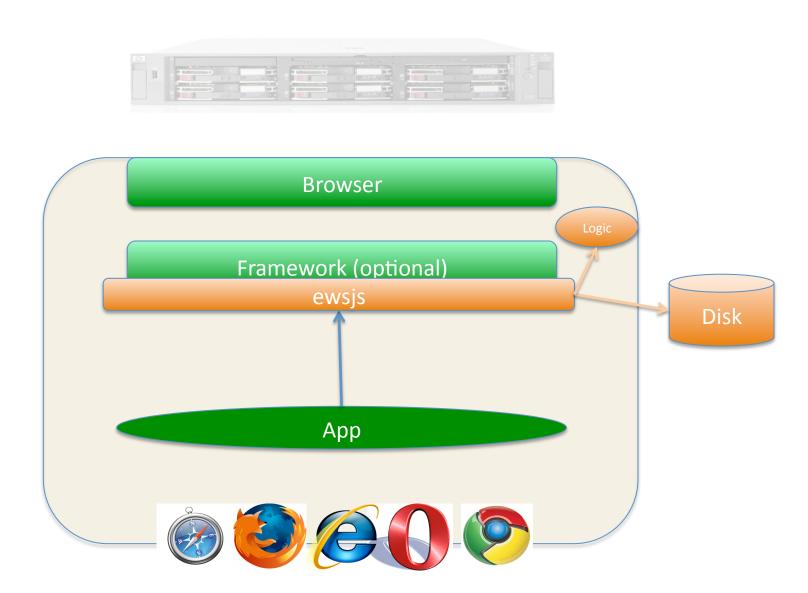
ewsjs: Yes, We Can!

- 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://code.google.com/p/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/get/post/put/delete
- 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(type, url, data, db, params)
// type: one of "GET", "POST", "DELETE, "PUT
// url: original url called (not the rewritten one)
// data: parameters of the original request
// 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(type, url, data, db)
// type: one of "GET", "POST", "DELETE, "PUT
// url: original url called (not the rewritten one)
// 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

- Make sure you call EWS.ajax or similar instead of \$.ajax
- One way: look at your original path
 var ajax = window.location.protocol === "file:" ? \$.ajax : EWS.ajax;
- Use ajax() throughout your app

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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