

# JSConf.eu

JavaScript  
Berlin  
7-8 Nov 2009





*j*Solutions    Java

*n*Solutions    .NET

*i*Solutions    IBM i

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# JSConf.EU



Track 01  
Mezzazine

Track 02  
Underground



# JS in Browser Performance

- Yahoo!
- Google
- Velocity (conf)
  
- Rules and tools
- YSlow & Page Speed

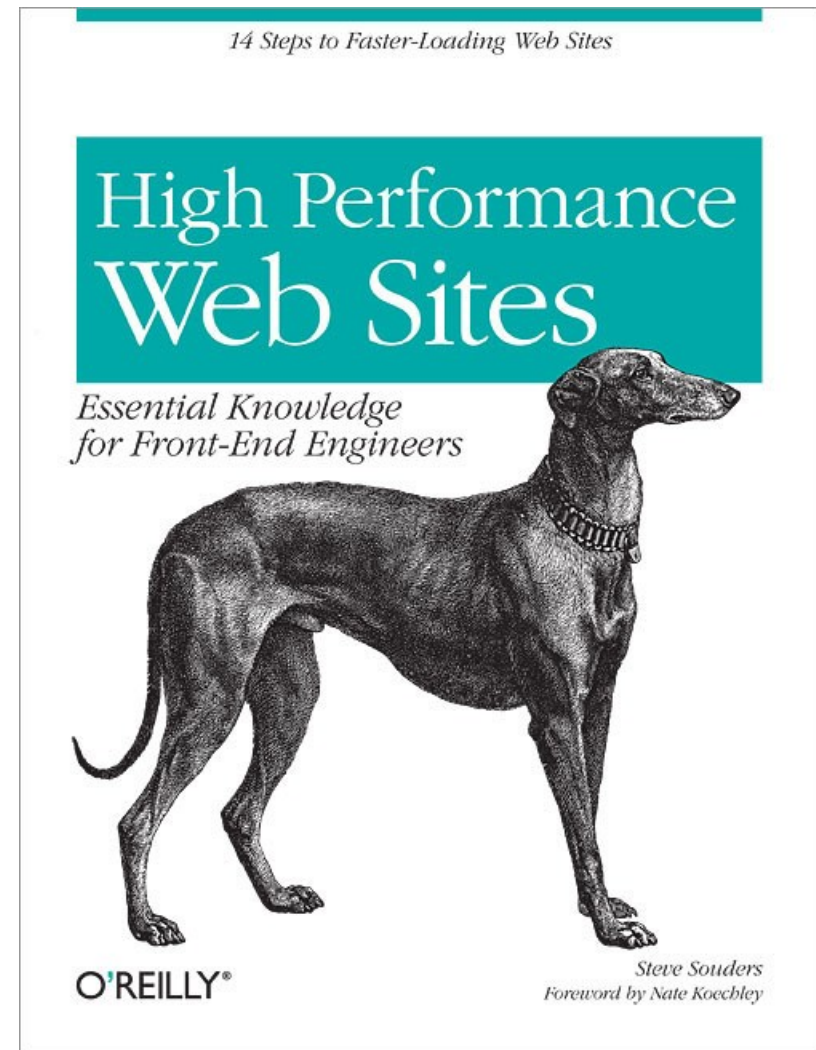


# Stairway to heaven



# High Performance Web Sites

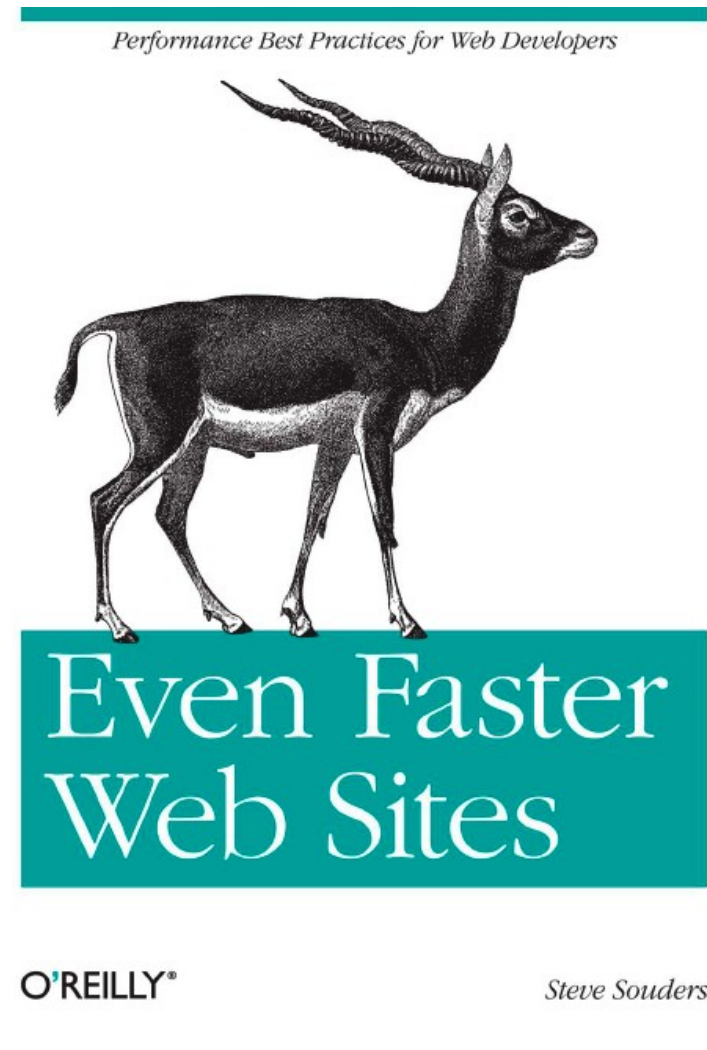
- 14 regler
  - fewer http requests
  - use a CDN
  - expires content-cache
  - gzip
  - stylesheets at top
  - scripts at bottom
  - ...



# Even Faster Web Sites



- web 2.0 - front end
  - Responsive webapps
  - Splitting initial load
  - Loading w/o blocking
  - Coupling async scripts
  - Writing efficient js
  - Optimize images
  - Flush document early
  - Simplify CSS selectors



# Loading JS - LABjs



- Olika tekniker
  - XHR Eval
  - XHR Injection
  - Script in Iframe
  - DOM Element
  - Script Defer
  - document.write
- Cavemen can do it!



# BAD BAD BAD

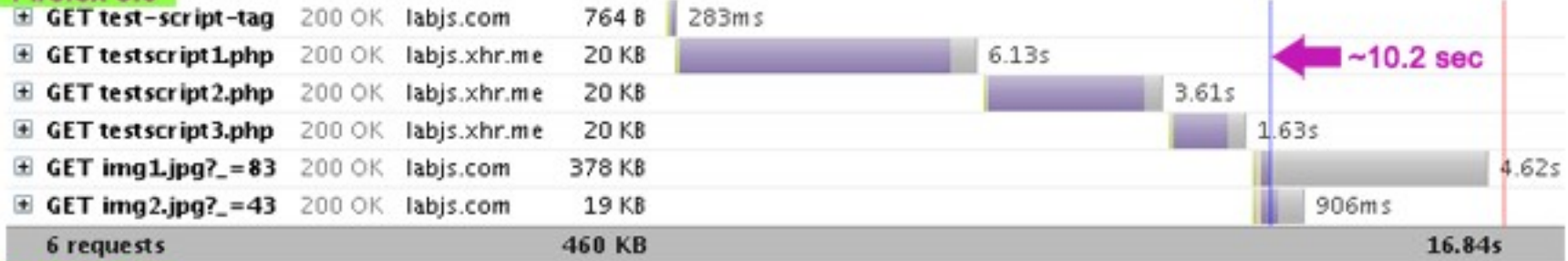


```
<script src="framework.js"></script>
<script src="plugin.framework.js"></
<script src="myplugin.js"></script>
<script>myplugin.init();</script>
<script>
    framework.init();
    framework.doSomething();
</script>
```

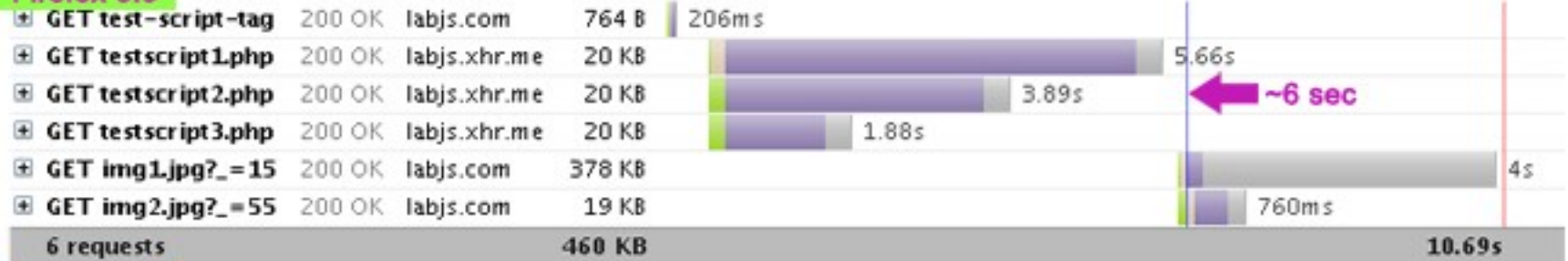
# What is good?



## Firefox 3.0



## Firefox 3.5



## LABjs



# LABjs - LoadingAndBlocking

```
<script>
  $LAB
    .script("framework.js").wait()
    .script("plugin.framework.js")
    .script("myplugin.js")
    .wait(function(){
      myplugin.init();
      framework.init();
      framework.doSomething();
    });
</script>
```

# Objektorientierterad CSS



- CSS
  - easy to brake existing code
  - immature profession
- variables
- prototypes
- mixins



# CSS Wish List - Variables



```
@variables hex {  
  facebookBlue: #3b5998;  
  highlight: #ff9933;  
}
```

```
h2, h4, h6 {  
  color: hex.facebookBlue;  
}
```

```
@variables <var group name> { <var name>: <value> }
```

# CSS Wish List - Mixins



```
@mixin .clearfix { zoom:1 }
```

```
.clearfix:after {  
  content: ".";  
  display: block;  
  height: 0;  
  clear: both;  
  visibility: hidden;  
}
```

# CSS Wish List - Including



```
.introduction {  
  include: .clearfix;  
}
```

```
.introduction {zoom:1}  
.introduction:after {  
  content: ".";  
  display: ...;  
}
```

# node.js - Evented I/O for V8

- Most popular servers are doing it wrong
- Most APIs are synchronous
- The world is async
- node.js is all async



# node.js - DNS example



```
var dns = require("dns");

var resolution = dns.resolve4("www.google.com");

resolution.addCallback(
  function(addresses, ttl, cname) {
    puts("addresses: ");
    puts(JSON.stringify(addresses));
  }
);
```

# Party!



# ECMAScript 5



- repair the language
  - block problem
  - variadic functions
  - syntactic sugar
- IBM - IEEE 754r
- Close Patent Office
- SDC 2010



Just because something is a standard doesn't mean it is the right choice for every application.

Like XML, for example.

# HTML5



- web forms
- `<video>`
- `<canvas>`
- offline apps
  - prop: `navigator.online`
  - events: `online`, `offline`
  - window.
    - `applicationCache`
  - `<html manifest="FIL">`

# The Future of Web-Apps



- Everything's amazing and nobody's happy
- Many devices - lots of proprietary APIs
- The stuff the user does is SACRED
- Nielsen gäller ännu: 0.1, 1.0, 10 sekunder

# Tack, frågor och cred



[flickr.com/ipom/](https://www.flickr.com/photos/ipom/)  
[flickr.com/janlehnardt/](https://www.flickr.com/photos/janlehnardt/)

[labjs.com](https://labjs.com)  
[nodejs.com](https://nodejs.com)

[stubbornella.org](https://stubbornella.org)  
[stevesouders.com](https://stevesouders.com)  
[javascript.crockford.com](https://javascript.crockford.com)

# Using dojo.\*



- dojo.gfx
- dojo.charting

stunning  
portable  
cross-browser  
real-time  
2D graphics



# JS - from birth to closure



- Genomgång av JavaScript
- Conditionals, Comparison, Data Types, Functions, Function Arguments, Objects, Inheritance, Scope, Function Scope, Closure, Namespacing, Syntax

