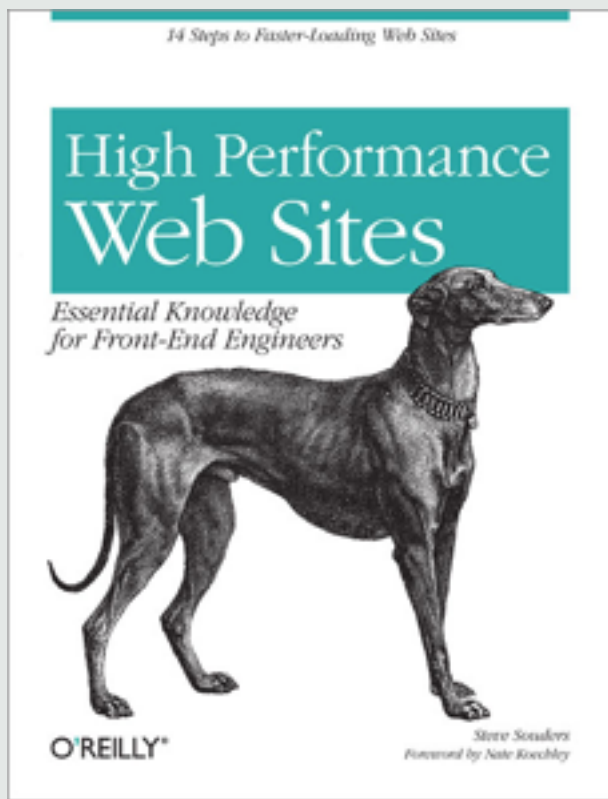


# THE WEB PERFORMANCE TESTING TOOLBOX

*Tobias Järlund*  
*@jarlund*

**AFTONBLADET**



### Performance Calendar

The speed geek's favorite time of the year

2012 2011 2010 2009

**31st** **Creating a Performance Culture**  
by Steve Souder

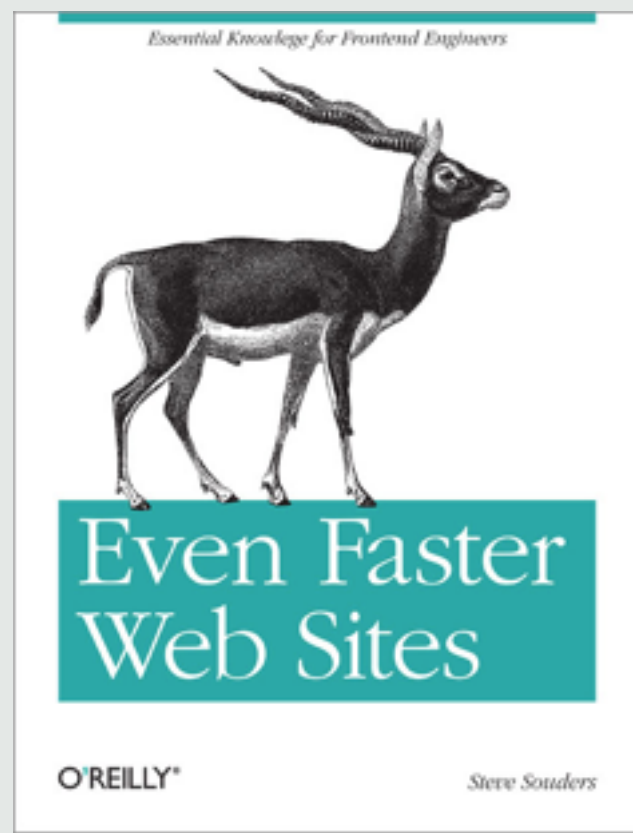
The performance community is growing. With 17K members across 46 meetup groups it's pretty easy to find someone else who cares about performance. But what if your company is new to the world of high performance websites? How can you make performance a priority within your organization? I don't have a guaranteed recipe, but here are [...]

**30th** **Speed Up Your Site Using Prefetching**  
by Jon Fox

The concept of prefetching is pretty simple. We often know about resources the browser is likely to need before the browser does. Prefetching involves either giving the browser hints of pages or resources it is likely to need so that it can download them ahead of time, or actually downloading resources into the browser cache [...]

**30th** **Optimizing Your Network Stack for Optimal Mobile Web Performance**  
by Ian Applegate

We spend a lot of time at CloudFlare thinking about how to make the Internet fast on mobile devices. Currently there are over 1.2 billion active mobile users and that number is growing rapidly. Earlier



**YSLLOW**

**PAGESPEED**

# **LOADING** *and* **RENDERING**

# *maintaining a* **RESPONSIVE** **UI**

# LOADING AND RENDERING

*the return of the*  
**WATERFALL**  
*development process*




Name	Method	Status	Type	Initiator	Size	Time	Timeline	566ms	848ms	1.13s	1.41s	1.70s	1.98s
www.jfokus.se?lang=en&	GET	200	text/html	Other	5.12KB	57ms							
style13.css	GET	200	text/css	www.ifokus.se:10	3.80KB	23ms							
all.js	GET	200	applicati...	www.ifokus.se:213	58.05KB	113ms							
widget.js	GET	200	applicati...	www.ifokus.se:213	7.47KB	67ms							
widget.css	GET	200	text/css	www.ifokus.se:213	1.50KB	68ms							
activatables.js	GET	200	applicati...	www.ifokus.se:213	3.16KB	26ms							
TobiasJarlund.jpg	GET	200	image/jp...	www.ifokus.se:69	8.56KB	34ms							
MarcusLagergren.jpg	GET	200	image/jp...	www.ifokus.se:72	6.35KB	34ms							
PerSiko.jpg	GET	200	image/jp...	www.ifokus.se:75	9.44KB	34ms							
AndersIvarsson.jpg	GET	200	image/jp...	www.ifokus.se:81	7.67KB	39ms							
nighthacker.png	GET	200	image/png	www.ifokus.se:99	40.46KB	146ms							
CyrilMottier.jpg	GET	200	image/jp...	www.ifokus.se:78	7.24KB	35ms							
JfokusReg.jpg	GET	200	image/jp...	www.ifokus.se:134	7.53KB	67ms							
MapWaterfront.jpg	GET	200	image/jp...	www.ifokus.se:140	6.98KB	69ms							
AndroidImage1.png	GET	200	image/png	www.ifokus.se:146	56.08KB	162ms							
JfokusWebApp.jpg	GET	200	image/jp...	www.ifokus.se:153	11.58KB	82ms							
wifi.gif	GET	200	image/gif	www.ifokus.se:161	5.46KB	84ms							
D6E-12vRdFA	GET	200	text/html	Other	2.45KB	181ms							
cs.png	GET	200	image/png	www.ifokus.se:213	3.82KB	199ms							
claremont.png	GET	200	image/png	www.ifokus.se:213	3.16KB	191ms							
citerus.png	GET	200	image/png	www.ifokus.se:213	2.28KB	190ms							
cinnober.png	GET	200	image/png	www.ifokus.se:213	3.03KB	189ms							

Jfokus

www.jfokus.se/jfokus/#page=page-1


Google



**Jfokus 2013**

HEM PROGRAM REGISTRERA KURSER VIDEO MER INFO ARKIV ENGLISH

För fler 2013 talare klicka här...



**Jfokus 2013** Like 209

**Detaljer**

När: 4-6 februari 2013  
 Språk: Engelska & Svenska  
 Plats: Stockholm Waterfront Congress Centre  
 4/2 → Tutorialdagen [Fullbokad](#)  
 5-6/2 → Konferensdagar [Fullbokad](#)

Console HTML CSS Script DOM Net Cookies YSlow Page Spe...

Clear Persist All HTML CSS JS XHR Images Flash Media

URL	Status	Domain	Size	Remote IP	Timeline
▶ GET #page=page-1	200 OK	jfokus.se	4.7 KB	109.74.12.100:80	41ms
▶ GET style13.css	200 OK	jfokus.se	3.5 KB	109.74.12.100:80	15ms
▶ GET LarsRamfelt.jpg	200 OK	jfokus.se	7.1 KB	109.74.12.100:80	27ms
▶ GET AlfStoyle.jpg	200 OK	jfokus.se	6.9 KB	109.74.12.100:80	27ms
▶ GET NoamTenne.jpg	200 OK	jfokus.se	10 KB	109.74.12.100:80	28ms
▶ GET VenkatSubramaniam	200 OK	jfokus.se	6.6 KB	109.74.12.100:80	29ms
▶ GET StephenChin.jpg	200 OK	jfokus.se	13.1 KB	109.74.12.100:80	42ms
▶ GET all.js#xfbml=1	200 OK	connect.facebook.net	57.5 KB	23.64.223.139:80	174ms
▶ GET widget.js	200 OK	widgets.twimg.com	7 KB	184.169.67.33:80	4ms
▶ GET widget.css	200 OK	widgets.twimg.com	1 KB	184.169.67.33:80	3ms
▶ GET activatables.js	200 OK	jfokus.se	2.8 KB	109.74.12.100:80	29ms
▶ GET nighthacker.png	200 OK	jfokus.se	40.2 KB	109.74.12.100:80	65ms
▶ GET jfokusReg.jpg	200 OK	jfokus.se	7.2 KB	109.74.12.100:80	40ms
▶ GET MapWaterfront.jpg	200 OK	jfokus.se	6.7 KB	109.74.12.100:80	41ms
▶ GET AndroidImage1.png	200 OK	jfokus.se	55.8 KB	109.74.12.100:80	68ms
▶ GET jfokusWebApp.jpg	200 OK	jfokus.se	11.3 KB	109.74.12.100:80	42ms

http://www.jfokus.se/jfokus/#page=page-1

# Jfokus 2013

HEM PROGRAM REGISTRERA KURSER VIDEO MER INFO ARKIV ENGLISH

För fler 2013 talare klicka här...

**Jfokus 2013** Like 209

**Detaljer**  
 När: 4-6 februari 2013  
 Språk: Engelska & Svenska  
 Plats: Stockholm Waterfront Congress Centre  
 4/2 - Tutorsid: [Fullbokad](#)

Arkiv Sök Inaktivera Visa Bilder Cache Verktyg Verifiera Webbbläsarläge: IE10 Dokumentläge: standarder

HTML CSS Konsol Skript Profilerare **Nätverk** Sök i registrerad trafik...

Börja registrera Gå till detaljerad vy Rensa

URL	Metod	Resultat	Typ	Mottaget	Tid	Initierare	Tider
/jfokus/	GET	200	text/html	15,02 kB	93 ms	uppdatera	
/jfokus/css/style13.css	GET	304	text/css	177 byte	31 ms	<link rel="style...	
/userfiles/image/people/LudovicChampeno...	GET	200	image/jpeg	8,33 kB	31 ms	<img>	
/userfiles/image/people/TalipOzturk.jpg	GET	200	image/jpeg	7,19 kB	62 ms	<img>	
/userfiles/image/people/KatharinaFahnenb...	GET	200	image/jpeg	9,06 kB	109 ms	<img>	
/userfiles/image/people/EvaAndreasson.jpg	GET	200	image/jpeg	9,13 kB	109 ms	<img>	
/userfiles/image/people/TobiasJarlund.jpg	GET	200	image/jpeg	8,56 kB	109 ms	<img>	
/jfokus/images/nighthacker.png	GET	304	image/png	179 byte	46 ms	<img>	
/userfiles/image/misc/JfokusReg.jpg	GET	304	image/jpeg	179 byte	46 ms	<img>	
/userfiles/image/misc/MapWaterfront.jpg	GET	304	image/jpeg	178 byte	93 ms	<img>	
/userfiles/image/restclients/AndroidImage...	GET	304	image/png	178 byte	109 ms	<img>	
/userfiles/image/restclients/JfokusWebAp...	GET	304	image/jpeg	179 byte	109 ms	<img>	
/images/wifi.gif	GET	304	image/gif	177 byte	109 ms	<img>	
/jfokus12/images/vnails/android_app_on_...	GET	304	image/png	176 byte	109 ms	<img>	
/jfokus12/images/vnails/app-store-ipad.png	GET	304	image/png	178 byte	109 ms	<img>	
/jfokus12/images/vnails/VideoKevinHenne...	GET	304	image/jpeg	179 byte	124 ms	<img>	
http://connect.facebook.net/en_US/all.js...	GET	304	application/x-java...	238 byte	62 ms	<script>	
/userfiles/image/people/banner2013_340x...	GET	304	image/jpeg	179 byte	124 ms	<img>	
http://widgets.twimg.com/j/1/widget.js	GET	304	application/javascript	338 byte	< 1 ms	<script>	
...	...	...	...	...	...	...	

Objekt: 74 Skickat: 44,54 kB (45 607 byte) Mottaget: 275,08 kB (281 684 byte)



# WEBPAGETEST

*[www.webpagetest.org](http://www.webpagetest.org)*

**AFTONBLADET**

## Test a website's performance

[Analytical Review](#)[Visual Comparison](#)[Mobile](#)[Traceroute](#)

Test Location

Browser

**Advanced Settings** ▼

Test Settings

[Advanced](#)[Auth](#)[Script](#)[Block](#)[SPOF](#)[Video](#)

Connection

Number of Tests to Run

Up to 10

Repeat View

 First View and Repeat View  First View Only

Keep Test Private

Label

Run a free website speed test from multiple locations around the globe using real browsers (IE and Chrome) and at real consumer connection speeds. You can run simple tests or perform advanced testing including multi-step transactions, video capture, content blocking and much more. Your results will provide rich diagnostic information including resource loading waterfall charts, Page

**DNS**

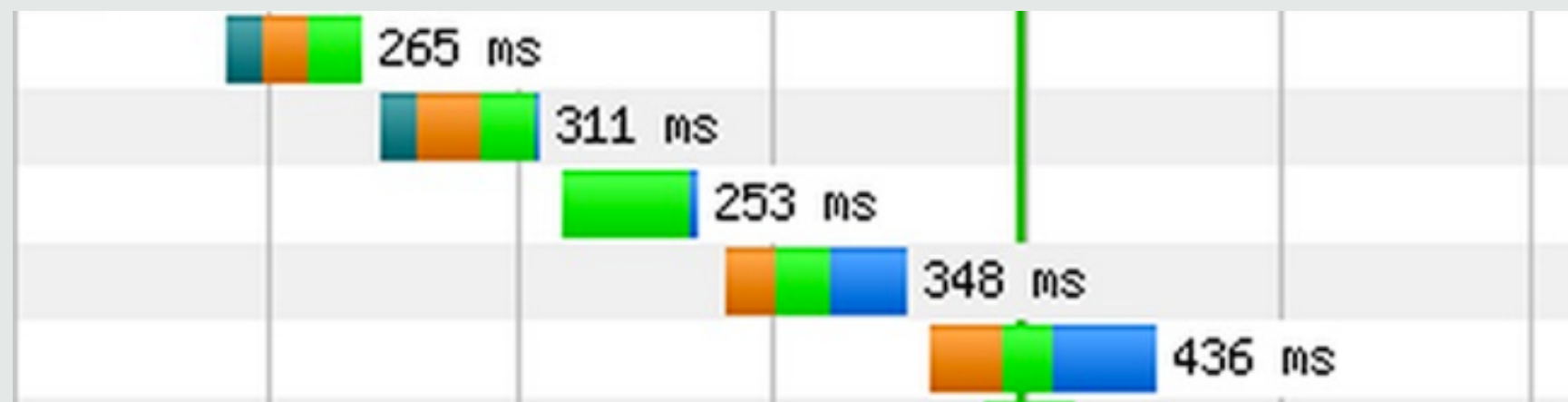
**FIRST BYTE**

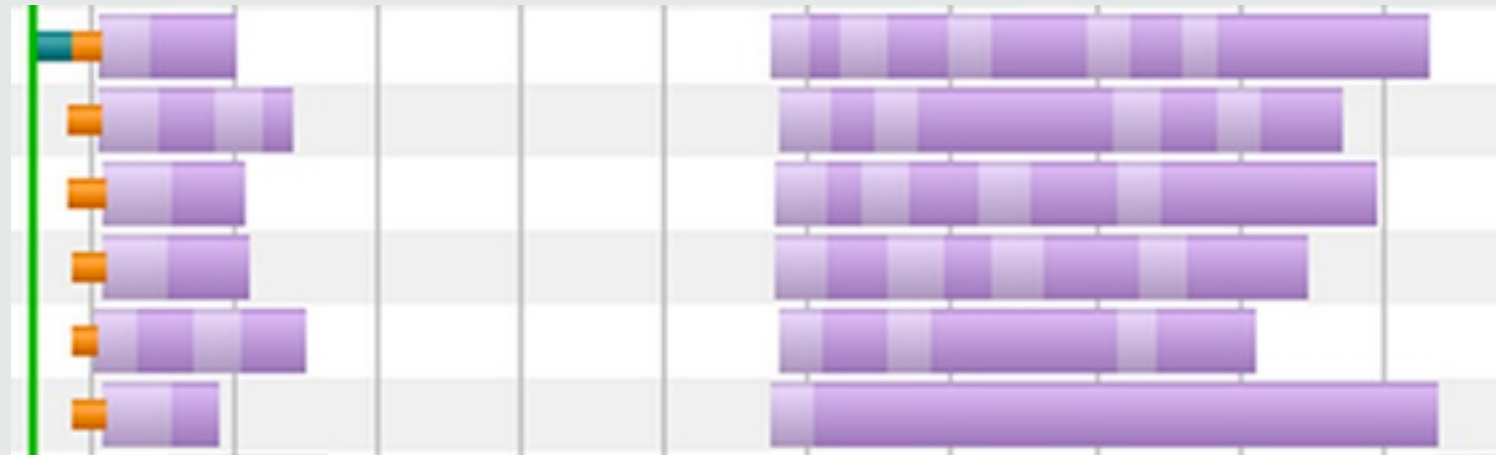


**CONNECTION**

**DOWNLOAD**

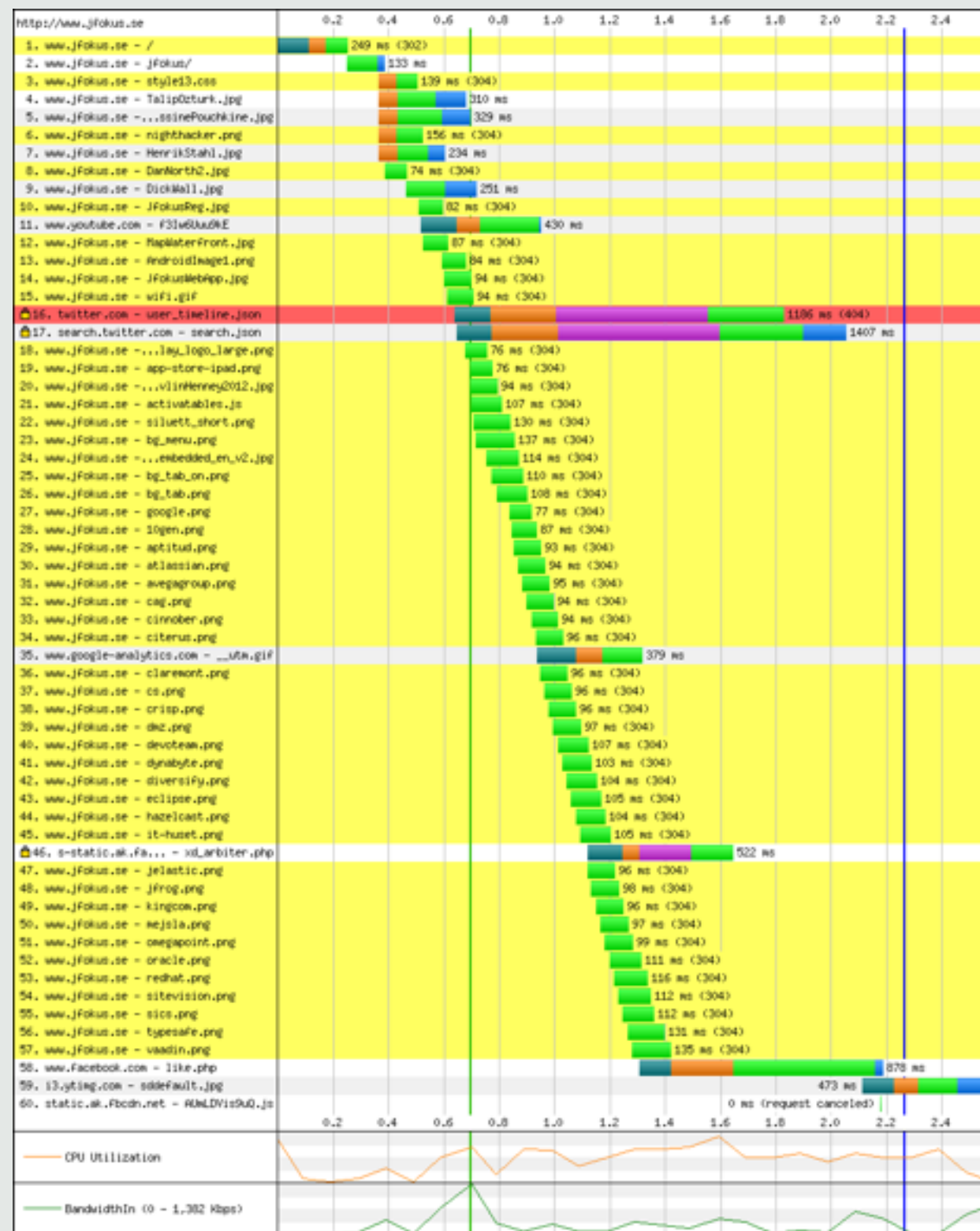
# *Avoid* **STAIRS**





*Mind the*  
**GAP**





Analytical Review

Visual Comparison

Mobile

Traceroute

Enter a Website URL

Test Location

Dulles, VA USA (IE 6-10, Chrome, dynaTrace)

Select from Map

Browser

IE 8

Advanced Settings

Test Settings

Advanced

Auth

Script

Block

SPOF

Video

Block ads (defined by adblockrules.org)

Block Requests Containing...

Space separated list

AFTONBLADET

**Analytical Review** | **Visual Comparison** | **Mobile** | **Traceroute**

**Enter a Website URL**

**Test Location**

**Browser**

**Advanced Settings** ▼

**Test Settings** | **Advanced** | **Auth** | **Script** | **Block** | **SPOF** | **Video**

**Enter Script**

[Empty text area for entering script]

**Script includes sensitive data**  
The script will be discarded and the http headers will not be available in the results

**Discard all HTTP headers**

Check out [Hosted Scripting](#) for more information on this feature



```
setViewportSize 320 480  
navigate http://www.jfokus.se/
```

```
setDOMElement id=fb-root  
navigate http://www.jfokus.se/
```

```
block facebook twitter  
navigate http://www.jfokus.se/
```

0.0s

0.5s

1.0s

1.5s

2.0s

2.5s

3.0s

3.5s

4.0s

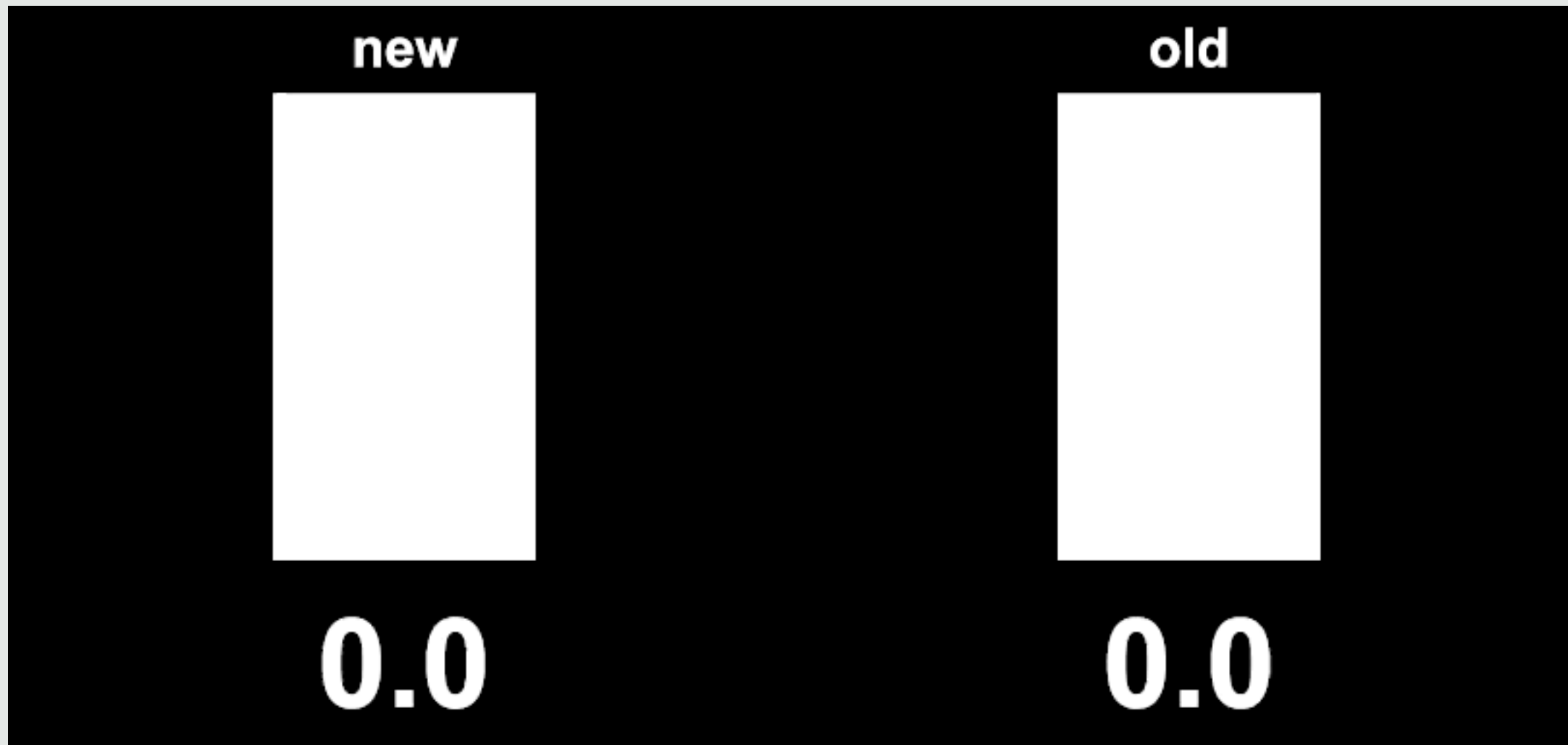
4.5s

5.0s

5.5s



AFTONBLADET



# RESTFUL API!

`/runtest.php?f=xml&location=Stockholm&url=http://www.jfokus.se/&k=mykey`

*...with a node.js module*

**AFTONBLADET**

# SHOWSLOW.COM

Is your website getting faster? [Sign up now!](#)

+ Add a URL | Last measurements | URLs measured | Compare rankings | Alexa Top 100 | Blog | Schwag | Configuring tools | Download ShowSlow

Search URLs  Clear

### Details for <http://www.nytimes.com/>

Current YSlow grade: C (72%) | Current Page Speed score: C (77%) | Current dynaTrace rank: F (32)

Tools

Run a test using WebPageTest and store the results  
Location: Dulles, VA USA [E 5-1] | Private | First View Only | [start test](#) | [See test history below](#)

Run a test using REDbot  
 Check all components | [start test](#)

Run Google PageSpeed Insights  
[Start Google PageSpeed Insights test](#) | [start test](#)

### Measurements over time

Default Metrics | Clear Metrics | Reset Zoom

### YSlow metrics

Basic measurements	Value	Grade	Page Size	Value
Overall rank	C (72%)	<div style="width: 72%;"></div>	Page Size	1753KB
Amount of requests with empty cache	118	<div style="width: 100%;"></div>	Page Load time	1357 ms

### Best practices

Make fewer HTTP requests	F (0%)	<div style="width: 0%;"></div>	Use a Content Delivery Network (CDN)	F (0%)	<div style="width: 0%;"></div>
Add Expires headers	F (0%)	<div style="width: 0%;"></div>	Avoid Empty Image src	A (100%)	<div style="width: 100%;"></div>
Compress components with gzip	B (88%)	<div style="width: 88%;"></div>	Put CSS at top	A (100%)	<div style="width: 100%;"></div>
Put JavaScript at bottom	A (100%)	<div style="width: 100%;"></div>	Avoid CSS expressions	B (88%)	<div style="width: 88%;"></div>
Make JavaScript and CSS external	F (0%)	<div style="width: 0%;"></div>	Reduce DNS lookups	F (20%)	<div style="width: 20%;"></div>
Minify JavaScript and CSS	F (40%)	<div style="width: 40%;"></div>	Avoid URL redirects	A (100%)	<div style="width: 100%;"></div>
Remove duplicate JavaScript and CSS	A (100%)	<div style="width: 100%;"></div>	Configure entity tags (ETags)	D (87%)	<div style="width: 87%;"></div>
Make AJAX cacheable	A (100%)	<div style="width: 100%;"></div>	Use GET for AJAX requests	A (100%)	<div style="width: 100%;"></div>
Reduce the number of DOM elements	E (59%)	<div style="width: 59%;"></div>	Avoid HTTP 404 (Not Found) error	A (100%)	<div style="width: 100%;"></div>
Reduce cookie size	A (100%)	<div style="width: 100%;"></div>	Use cookie-free domains	C (79%)	<div style="width: 79%;"></div>
Avoid XMLHttpRequest filter	A (100%)	<div style="width: 100%;"></div>	Do not scale images in HTML	A (100%)	<div style="width: 100%;"></div>
Make favicon small and cacheable	A (88%)	<div style="width: 88%;"></div>			

### Page Speed metrics

Page size	2655KB	<div style="width: 100%;"></div>	Page load time	0 ms	<div style="width: 100%;"></div>
Transfer size of all resources	9KB	<div style="width: 100%;"></div>	Total Requests	160	<div style="width: 100%;"></div>
Overall grade	C (77%)	<div style="width: 77%;"></div>			

### Optimize caching

Leverage browser caching	F (47%)	<div style="width: 47%;"></div>	Leverage proxy caching	A (88%)	<div style="width: 88%;"></div>
Remove query strings from static resources	A (87%)	<div style="width: 87%;"></div>	Specify a Vary: Accept-Encoding header	A (88%)	<div style="width: 88%;"></div>

### Minimize round-trip times

Minimize DNS lookups	n/a	<div style="width: 100%;"></div>	Minimize redirects	C (79%)	<div style="width: 79%;"></div>
Avoid bad requests	A (100%)	<div style="width: 100%;"></div>	Combine external JavaScript	n/a	<div style="width: 100%;"></div>

# GTMETRICS.COM

From 13 May 2012 | Until 27 January 2013

### Page load times

Legend: HTML D/L Time, Page Load Time

### Page sizes and request counts

Legend: Total Page Elements, HTML Size, Total Page Size

### Page Speed and YSlow Scores

Legend: Page Speed Score, YSlow Score

# AFTONBLADET

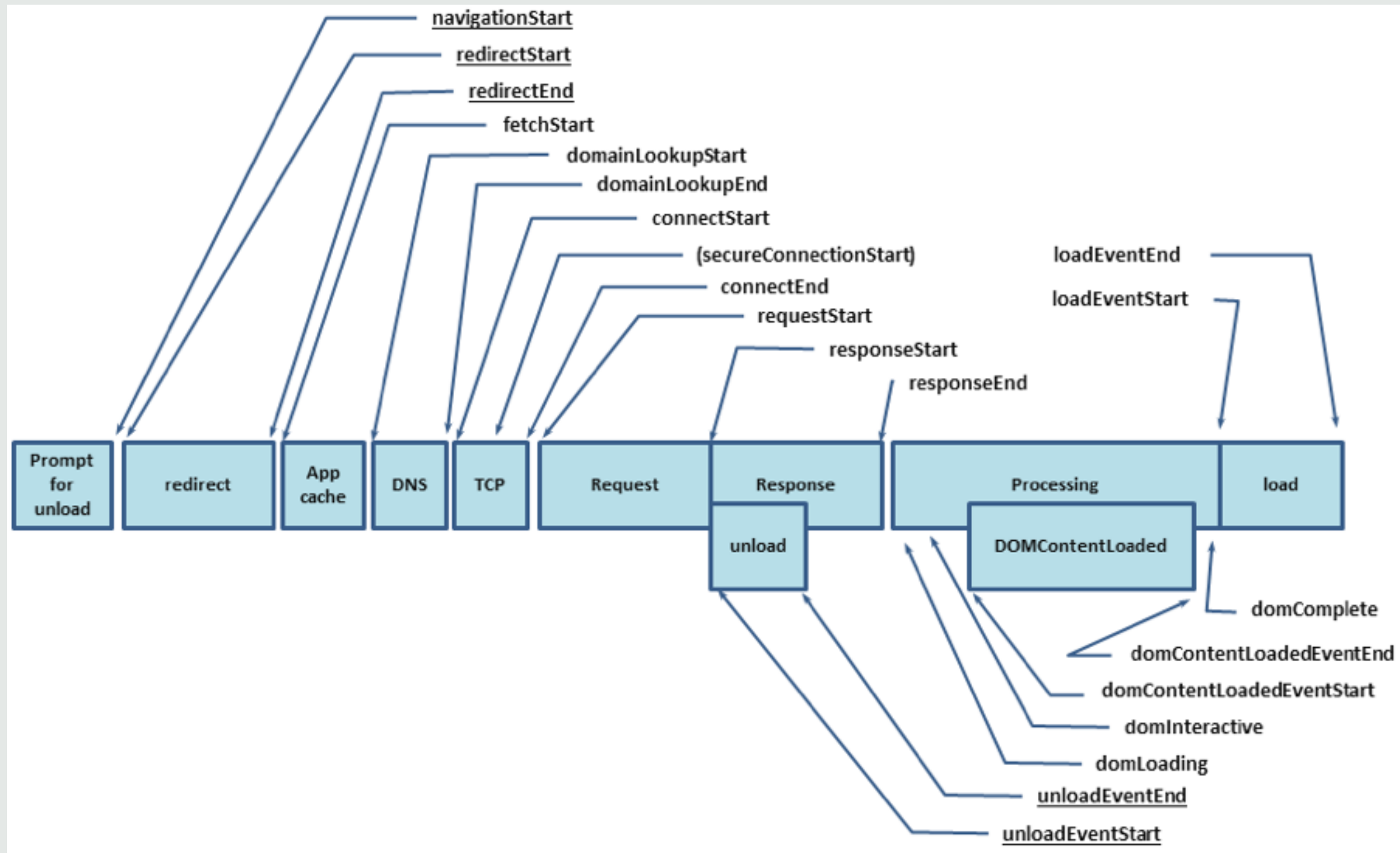
*Real user*  
**MONITORING**

**AFTONBLADET**

# NAVIGATION TIMING API

*Supported everywhere except Safari and Opera*

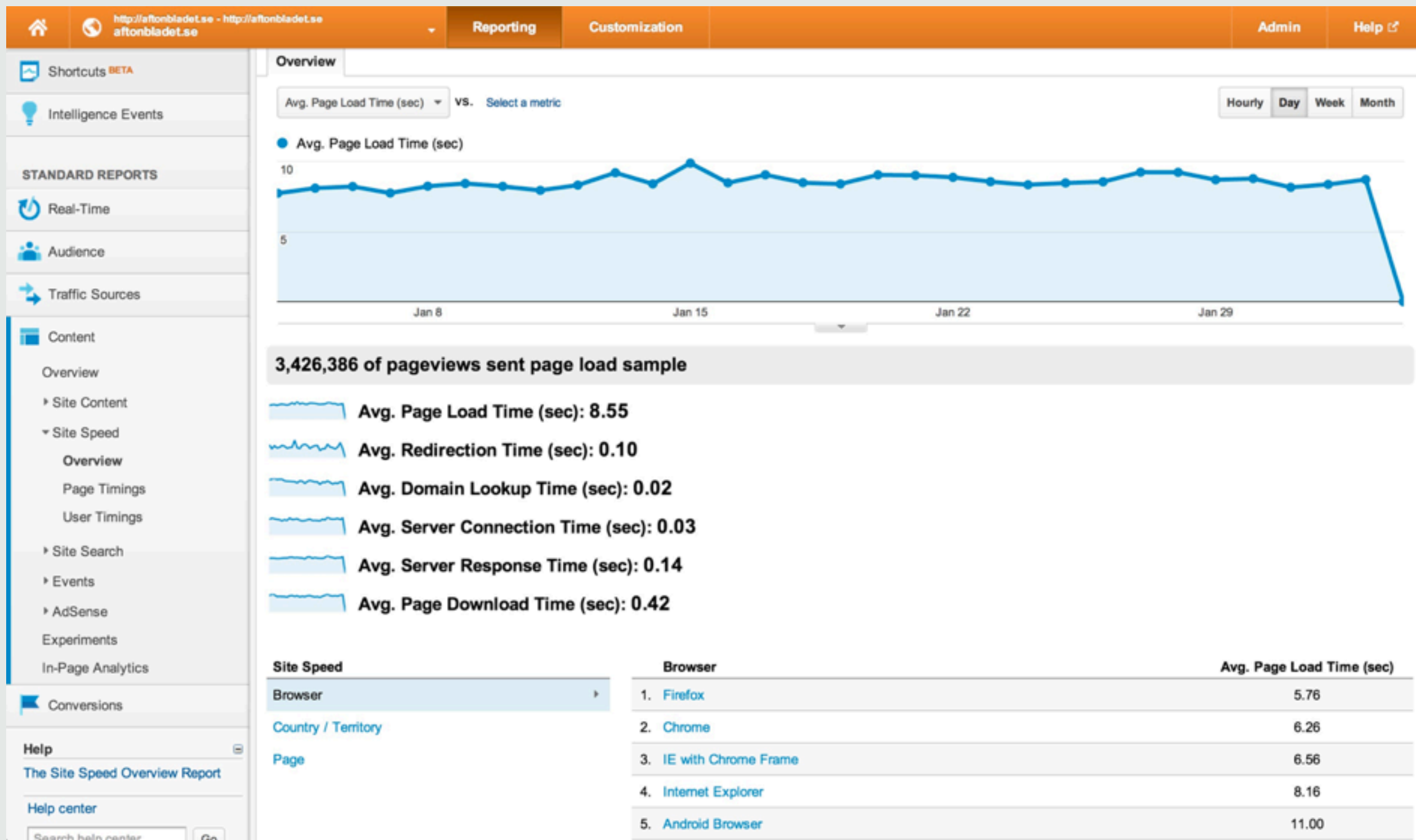
**AFTONBLADET**





# GOOGLE ANALYTICS

**AFTONBLADET**



# AVERAGES

*vs*

# PERCENTILES

**AFTONBLADET**

- Find reports & more
- MY STUFF**
- Dashboards
  - Shortcuts **BETA**
  - Intelligence Events
- STANDARD REPORTS**
- Real-Time
  - Audience
  - Traffic Sources
  - Content**
    - Overview
    - Site Content
    - Site Speed
      - Overview
      - Page Timings**
      - User Timings
    - Site Search
    - Events
    - AdSense
    - Experiments

## Site Speed Page Timings

Jan 1, 2013 - Jan 31, 2013

[Advanced Segments](#) | 
 [Email](#) | 
 [Export](#) | 
 [Add to Dashboard](#) | 
 [Shortcut](#) **BETA**

100.00% % of pageviews: 100.00% 
 This report is based on 249986 visits (0.26% of visits). [Learn more](#)

[Explorer](#) | 
 [Distribution](#) | 
 [Map Overlay](#)

[Page Load Time Bucket \(sec\)](#) | 
 [Redirection Time Bucket \(sec\)](#) | 
 [Domain Lookup Time Bucket \(sec\)](#) | 
 [Server Connection Time Bucket \(sec\)](#) | 
 [Server Response Time Bucket \(sec\)](#) | 
 [Page Download Time Bucket \(sec\)](#) | 
 [Document Interactive Time Bucket \(sec\)](#) | 
 [Document Content Loaded Time Bucket \(sec\)](#)

Avg. Document Content Loaded Time (sec)	Pageviews	Document Content Loaded Sample
<b>3.23</b> <small>Site Avg: 3.23 (0.00%)</small>	<b>339,769,695</b> <small>% of Total: 100.00% (339,769,695)</small>	<b>3,236,987</b> <small>% of Total: 100.00% (3,236,987)</small>

Document Content Loaded Time Bucket (sec)	Document Content Loaded Sample	Percentage of total
0 - 0.50	42,672	1.40%
0.50 - 1	401,172	13.15%
1 - 3	1,674,419	54.88%
3 - 5	518,541	17.00%
5 - 10	293,745	9.63%
10 - 30	108,966	3.57%
30 - 60	7,620	0.25%
60+	3,810	0.12%

This report was generated on 2/1/13 at 10:09:55 AM - [Refresh Report](#)

Get your FREE 30-DAY when you click here and use New Relic!

New Relic

Product Enterprise Pricing Blog About Sign In

Sign up for free!

One product. One view. Across your entire stack.

Real User Monitoring Application Monitoring Server Monitoring Why New Relic

Real users, real insights

Track exactly what your customers are experiencing – from the moment they click until the page has loaded.

Get real-time end user experience monitoring

pingdom

Website performance monitoring. Made easy.

## Real User Monitoring

Now you can know exactly how your visitors are experiencing your website. Our Real User monitoring gives you insight into performance and helps you answer questions like: how does your website really perform from a specific country or web browser?

Apply for beta invite

We will gradually send out invites to everyone in the beta list.

REGISTER NOW

Already have an invite

Application Performance Management

Compuware

Home » Application Performance Management » Products » Compuware Gomez User Experience Management

Real-user monitoring for quantifying and optimizing the impact of web performance on real-user experience, satisfaction and business results

Gomez User Experience Management (formerly Gomez Browser RUM) measures web, mobile, native mobile, cloud and streaming application performance as experienced by real users. Gomez User Experience Management is the only SaaS solution that quantifies the impact of application performance on real-user experience, satisfaction and business results, such as conversions and abandonment.

With Gomez User Experience Management, you can:

- Identify and resolve application performance problems that harm conversion rates and end-user satisfaction
- Reduce operational costs with faster detection and resolution of problems
- Ensure optimal performance across all users, browsers, devices and geographies
- Capture real-user interactions with Web 2.0 applications to find and solve problems undetectable with traditional monitoring approaches
- Baseline and compare actual users' performance and behavior with industry averages

What makes Gomez User Experience Management Unique?

"Always on" real-user monitoring

- All users – all locations, all the time
- All web, native mobile, mobile, cloud and streaming

FREE Trial

2 MINUTE EXPLAINER

lognormal

A SCORPION Company

Blog Features Sign In Contact Us

### Features of a LogNormal Account

or, what you get if you sign up

Contact Us

Contact us today to get started.

Contact Us

#### Performance Summary

Your Performance Summary gives you an insight into how fast your users perceive your site to be. The median performance time tells you how fast the fastest 50% of your users perceived your site to be, while the 90th and 95th percentiles tend closer to all users. The Margin of Error tells you how accurate this measurement is.

**91 ms**

+ 5.9 ms    -1,801,467

90% 1.0 sec    95% 2.4 sec

#### Histogram of real user load times

The real user load time histogram shows you the spread of load times experienced by visitors to your site, helping you identify performance aspects beyond the basic summary. Is your spread fat or does it have an obvious spike? Is it single- or multi-modal? Your histogram can tell you if you're measuring the right metric and if further drill down may be required.

TORBIT

Home Products Benefits Blog Login

Torbt Insight

Create a free insight account

Insight overview

Basic features

Get these features with a free account

The metrics you care about

With performance data, it's important to look beyond averages since outliers are inevitable. Insight allows you to look at other key metrics such as your median and key percentiles (50th, 90th & 95th).

2.17	2.58	4.96	10.2	16.61	44.91	18,293.436
median time	total	average	50th percentile	90th percentile	95th percentile	visitors

Real visitor data

See a histogram showing the breakdown of your site speed and get a better sense of the typical experience for your visitors. With 100% sampling, you'll get valuable performance data for every visitor on every page.

# DO IT YOURSELF

*Boomerang*

<https://github.com/lognormal/boomerang/>

**AFTONBLADET**

# THE CRITICAL PATH

*Pagespeed online*

**AFTONBLADET**

Overview

PageSpeed

Analysis

Insights

Insights Extensions

Insights API

Rules

FAQ

Optimization

Public DNS

Hosted Libraries

Protocols

Standards

Performance Best Practices

Articles

Tools

Community



PageSpeed Insights

# Make your web site faster

m.aftonbladet.se

ANALYZE

## What is PageSpeed Insights?

PageSpeed Insights analyzes the content of a web page, then generates suggestions to make that page faster. Reducing page load times can reduce bounce rates and increase conversion rates. [Learn more](#)

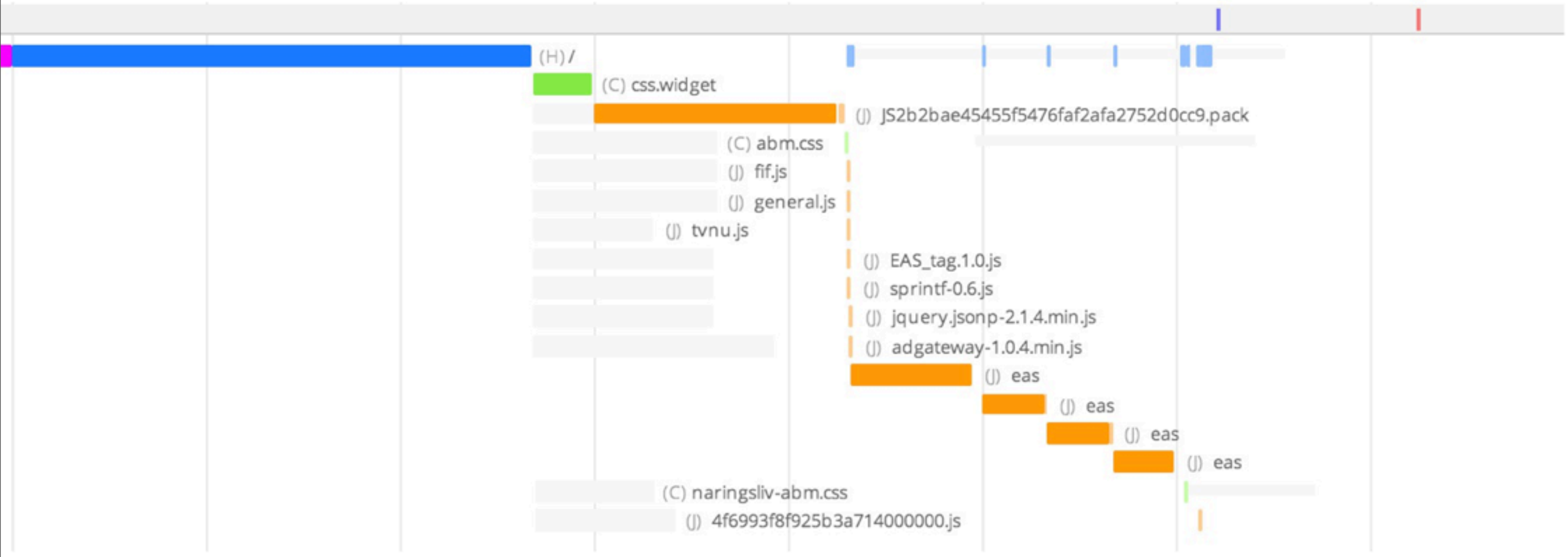
## PageSpeed Insights Resources

- [PageSpeed Insights for Chrome and Firefox](#)
- [PageSpeed Service](#)
- [mod\\_pagespeed for Apache](#)



Highlight Critical Path

757ms 1.1s 1.5s 1.9s 2.3s 2.6s 3s 3.4s



## Critical Path Explorer

Highlight Critical Path

### Medium priority (1)

184ms 368ms 552ms 736ms 920ms 1.1s 1.3s 1.5s 1.7s

Minimera antalet omdirig...

### Low priority (7)

Visa skalade bilder

Optimera bilder

Utnyttja cachelagring i w...

Förminska JavaScript

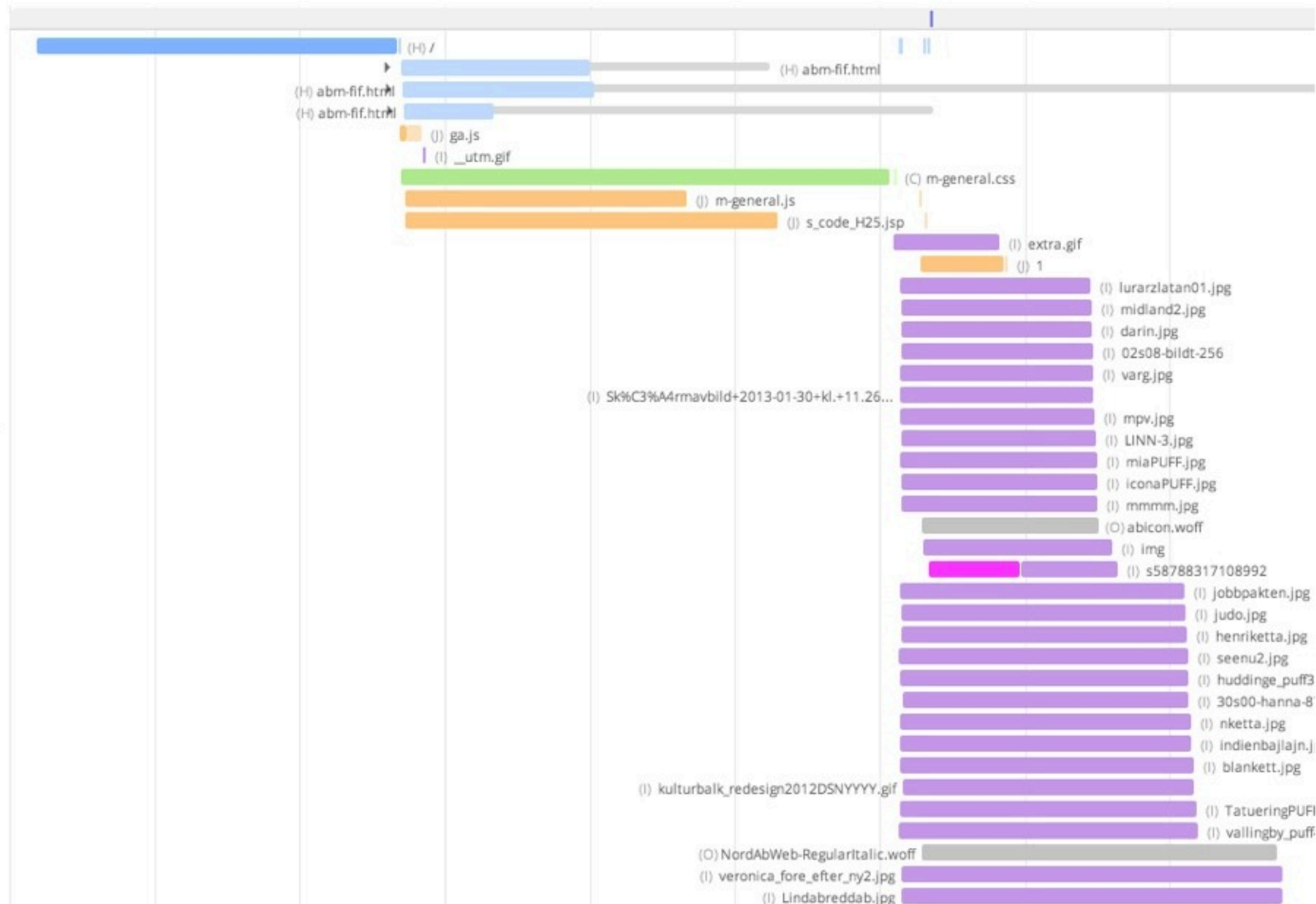
Förminska HTML

Ange en teckenuppsättning

Ta bort frågesträngar frå...

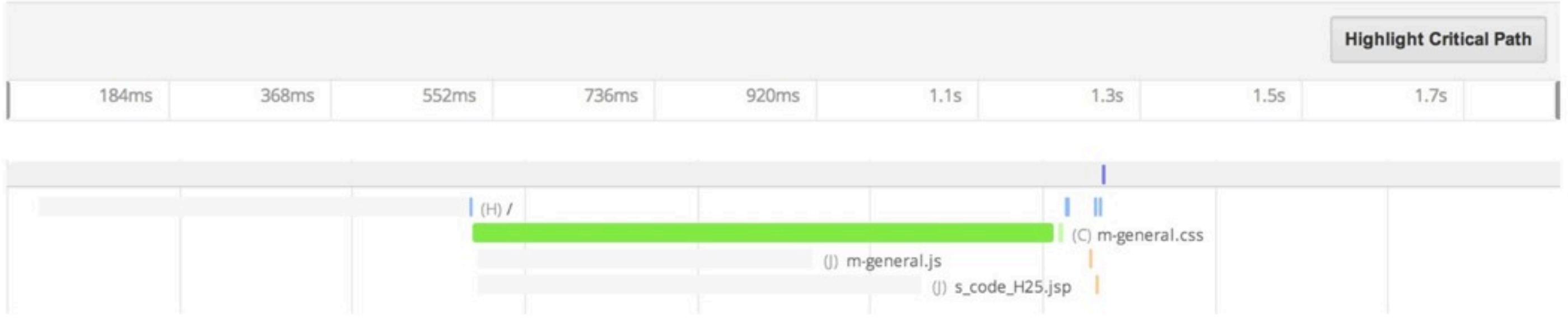
### Experimental rules (4)

### Already done! (20)



# Critical Path Explorer

Highlight Critical Path



- view
- Critical Path Explorer
- ium priority (1)
- mera antalet omdirig...
- priority (7)
- skalade bilder
- mera bilder
- ttja cachelagring i w...
- niska JavaScript
- niska HTML
- e en teckenuppsättning
- ort frågesträngar frå...
- perimental rules (4)
- ady done! (20)

*frontend*  
**SPOF**  
**Single Point Of Failure**

**AFTONBLADET**



HOME PROGRAM REGISTER TRAINING VIDEO ABOUT ARCHIVE SVENSKA

```
<h2>Jfokus 2013 <script src="http://connect.facebook.net/en_US/all.js#xfbml=1"></script><fb:like href="http://www.facebook.com/pages/Jfokus/160926773938742" layout="button_count"></fb:like></h2>
```

More 2013 speakers here...



Jfokus 2013 Like 214

Details

When: 4-6 February 2013  
Language: English and Swedish  
Where: Stockholm Waterfront Congress Centre, Sweden  
4/2: University-sessions Sold out  
5-6/2: Conference-days Sold out

Introduction video by Konrad Malawski

Andrzej & Konrad - JFokus 2013 "Hel...



```
<!-- CONTENT OF INFO BOX -->
<script src="http://widgets.twimg.com/j/1/widget.js"></script>
<link href="http://widgets.twimg.com/j/1/widget.css" type="text/css" rel="stylesheet" />
```

Jfokus 2013 Embedded  
Our brand new sub-conference

#JFOKUS @JFOKUS

pehrs Performance methods @ #jfokus 2013 <http://t.co/UorBtp7p> 47 seconds ago

CeciliaBorg <http://t.co/s8W8wQBZ>'s Kevin Farnham reflecting on first day in Stockholm for #Jfokus <http://t.co/7IDyxp4f> 3 hours ago

2 new tweets

AT TONDBALL!



HEM PROGRAM REGISTRERA KURSER VIDEO MER INFO ARKIV ENGLISH

För fler 2013 talare klicka här...



Jfokus 2013 214

Detaljer

När: 4-6 februari 2013  
Språk: Engelska & Svenska  
Plats: Stockholm Waterfront Congress Centre  
4/2 - Tutorialdagen **Fullbokad**  
5-6/2 - Konferensdagar **Fullbokad**

Introduktionsvideo av Konrad Malawski



Jfokus 2013 *Embedded*  
Our brand new sub-conference about Internet of Things

#JFOKUS @JFOKUS

**SPOOF-O-MATIC**

Jfokus Maker  
February 3, 2013 <https://t.co/d0Edr1wD>  
2 minutes ago

marcusoftnet True privileige to sit down with @hakanforss and @joakimsunden

**Analytical Review** | **Visual Comparison** | **Mobile** | **Traceroute**

**Enter a Website URL**

**Test Location**

**Browser**

**Advanced Settings** ▼

Simulate failure of specified domains. This is done by re-routing all requests for the domains to [blackhole.webpagetest.org](http://blackhole.webpagetest.org) which will silently drop all requests.

**Hosts to fail (one host per line)...**

# MAINTAIN A RESPONSIVE UI



*Dynatrace*  
**AJAX**  
*edition*

**AFTONBLADET**






- Cockpit
- Browsers
  - Sessions
    - Jfokus speaker page (2013-02-04 10)
    - Jfokus speaker page (2013-02-04 08)
    - Jfokus speaker page (2013-01-30 12)
    - WebBrowser (2013-01-30 10:01:52)
    - WebBrowser (2013-01-30 09:47:35)
    - WebBrowser (2013-01-29 00:07:38)
    - Internet Explorer (2012-08-29 12:40)
    - Internet Explorer (2012-08-29 12:35)
    - Internet Explorer (2012-08-29 12:20)
    - Internet Explorer (2012-08-29 10:40)
    - Internet Explorer (2012-01-23 12:34)
    - http://www.aftonbladet.se/ (2011-1)
    - http://www.aftonbladet.se/ (2011-1)
    - New Run Configuration (2011-12-03)
    - New Run Configuration (2011-12-01)
    - Kulturen (2011-12-01 13:34:26)
    - DN (2011-10-25 10:25:14)
    - Firefox (2011-03-25 11:16:33)
    - Internet Explorer (2011-03-25 11:00)
    - Internet Explorer (2011-03-25 10:39)
    - Firefox (2011-03-25 10:28:55)
    - Internet Explorer (2011-03-25 08:33)
    - Firefox (2011-03-24 16:28:26)
    - Internet Explorer (2011-03-24 16:16)
    - Internet Explorer (2011-03-24 13:25)
    - (2011-03-24 13:16:53)
    - http://www.aftonbladet.se/ (2011-0)
    - http://www.aftonbladet.se/ (2011-0)
    - (2011-03-11 13:52:45)
    - Sportbladet efter fix. (2011-01-18 13)
    - Sportbladet före fix. (2011-01-17 08)
    - (2011-01-17 08:30:27)
    - (2011-01-17 08:14:00)
    - http://www.aftonbladet.se/ (2011-0)
    - Pizzan (2010-09-28 14:52:41)

Start Page



## Welcome back!

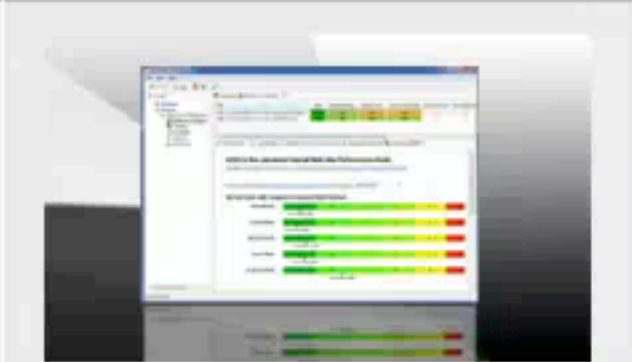
### Next Steps

-  **Step 1: [Click here to start tracing](#)**  
Launches your browser with dynaTrace AJAX tracing enabled.  
[Go Premium](#) for support of legacy browsers.
-  **Step 2: Browse a Website**  
Select any Website, your own or any other, and click around.
-  **Step 3: Analyze Results**  
After you closed your browser dynaTrace has already analyzed your session. Double-Click session and analyze the performance reports.

### Learn More

- [Capabilities](#)
- [Premium Version](#)
- ["How To" Videos](#)

### Videos: How to Do More



[Tutorial 2/15: Performance Summary](#)

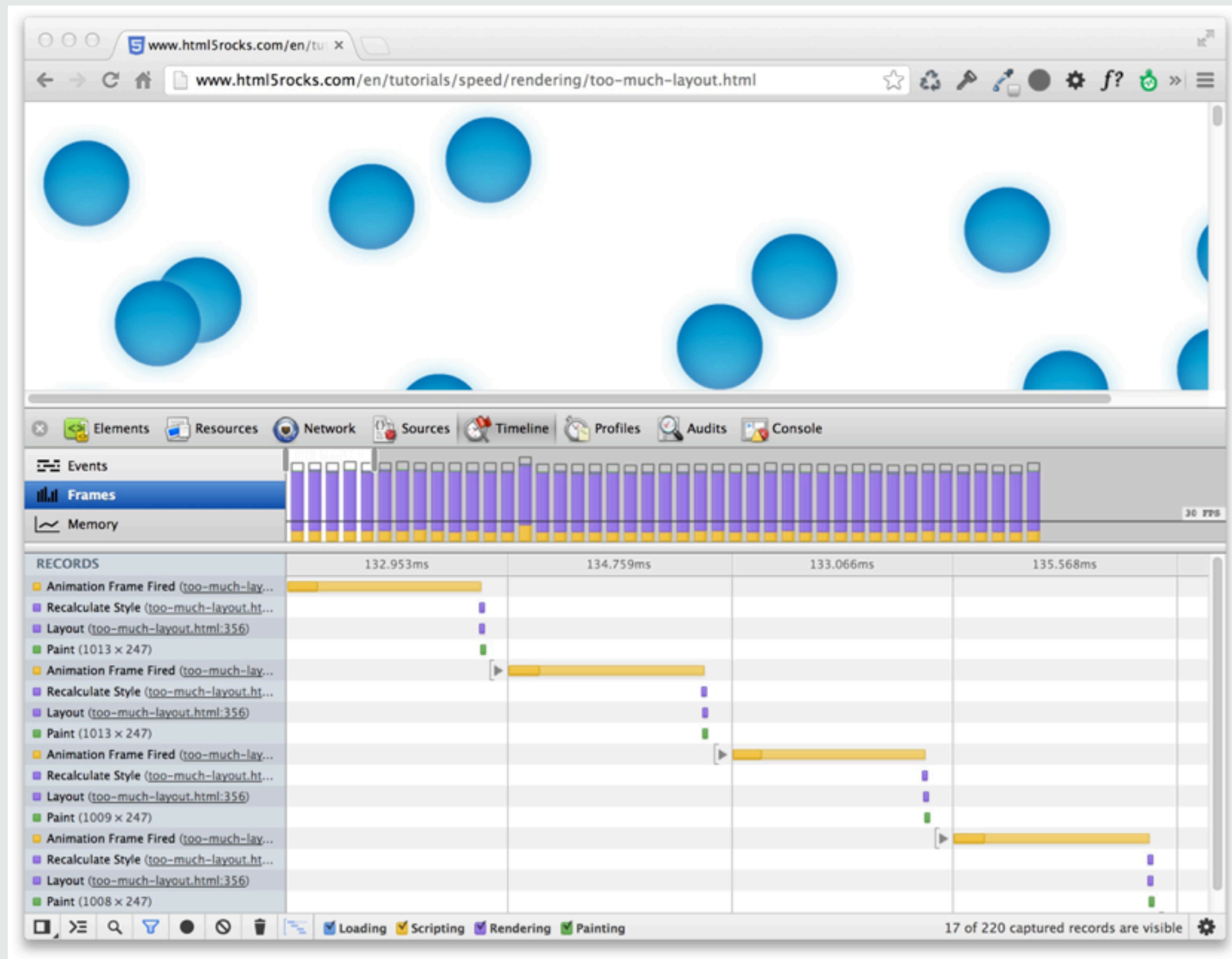
### More Resources

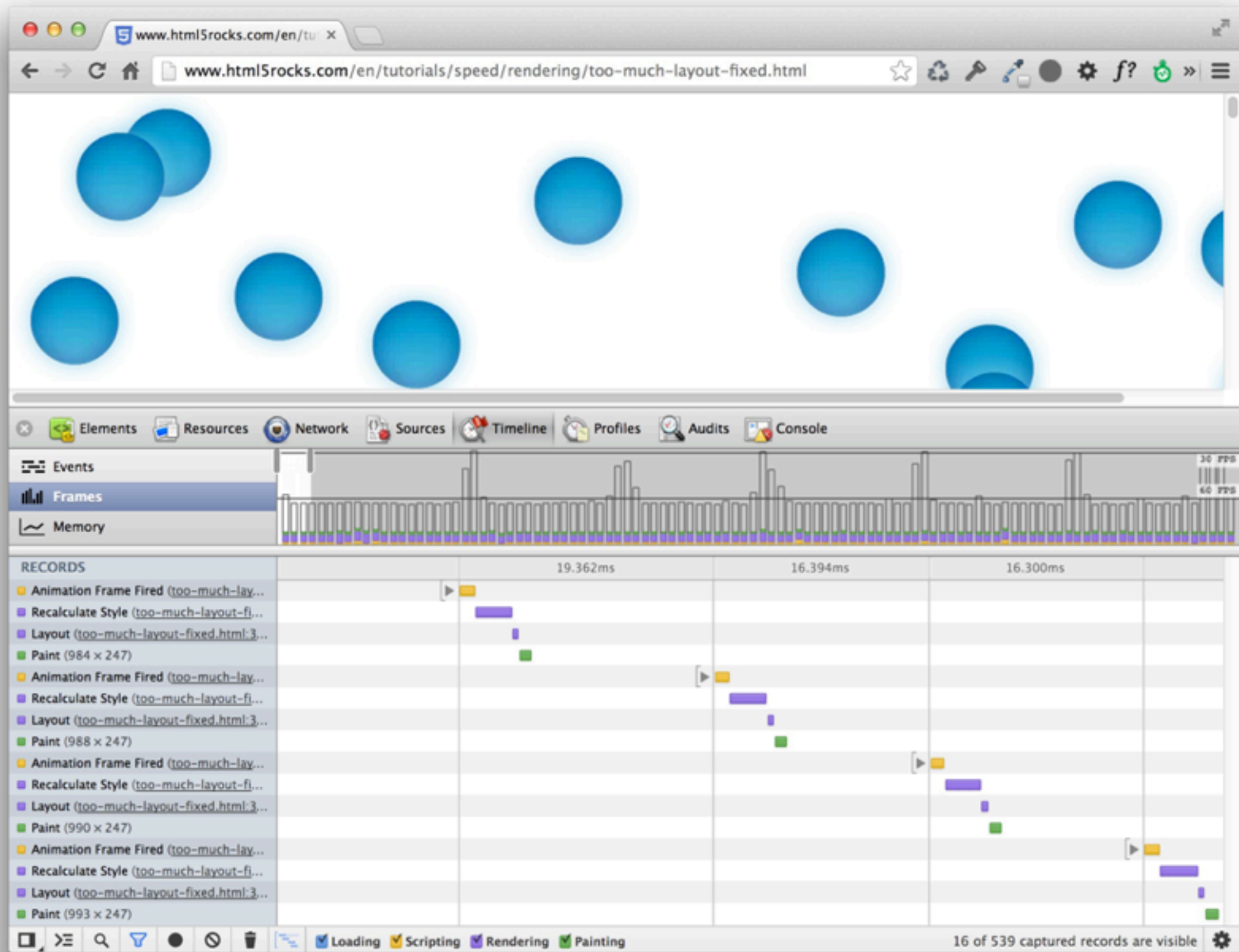
- [Forums](#)
- [Community](#)
- [Blog](#)
- [Release Notes](#)
- [Download old](#)

*Chrome*  
**DEVTTOOLS**

**AFTONBLADET**







*Test on actual*  
**MOBILE**  
*devices*

**AFTONBLADET**

# WEBPAGETEST

*mobitest.akamai.com*

The screenshot displays the Akamai Mobitest interface. At the top, there is a navigation bar with the Akamai logo and menu items like 'Solutions', 'Intelligent Platform', 'Industries', 'Customers', 'Partners', and 'Contact'. Below this, the 'MOBITEST' logo is prominent, followed by the text 'Test Your Website Performance On A Mobile Device' and a 'Mobitest Form' button. The main content area features a large image of an iPhone displaying a mobile website with the headline 'VAD HÅLLER DU PÅ MED?' and a 'Swipe' button. To the right of the phone, the text reads 'Mobitest Mobile Performance Results for: http://mobil.aftonbladet.se on iPhone 4, iOS 5.0'. Below this, a flame icon is shown next to the results: 'Your website's results: Average Load Time 11.02s' and 'Average Page Size 731.91kb'. There are also social media sharing options for Facebook, Tweet, and ShareThis, along with a 'View HTML file' button. At the bottom of this section, there are buttons for 'Register Now' and 'Already Registered?'. Below the main content, a 'Test 1' section provides a detailed breakdown of the performance metrics. It includes a table with columns for 'Load Time', 'Page Size', 'Waterfall Chart', and 'Screenshot'. The 'Load Time' is 11.02s and the 'Page Size' is 731.91kb. The 'Waterfall Chart' shows a series of blue bars representing the loading of different resources. The 'Screenshot' shows the mobile website interface as seen on the iPhone.

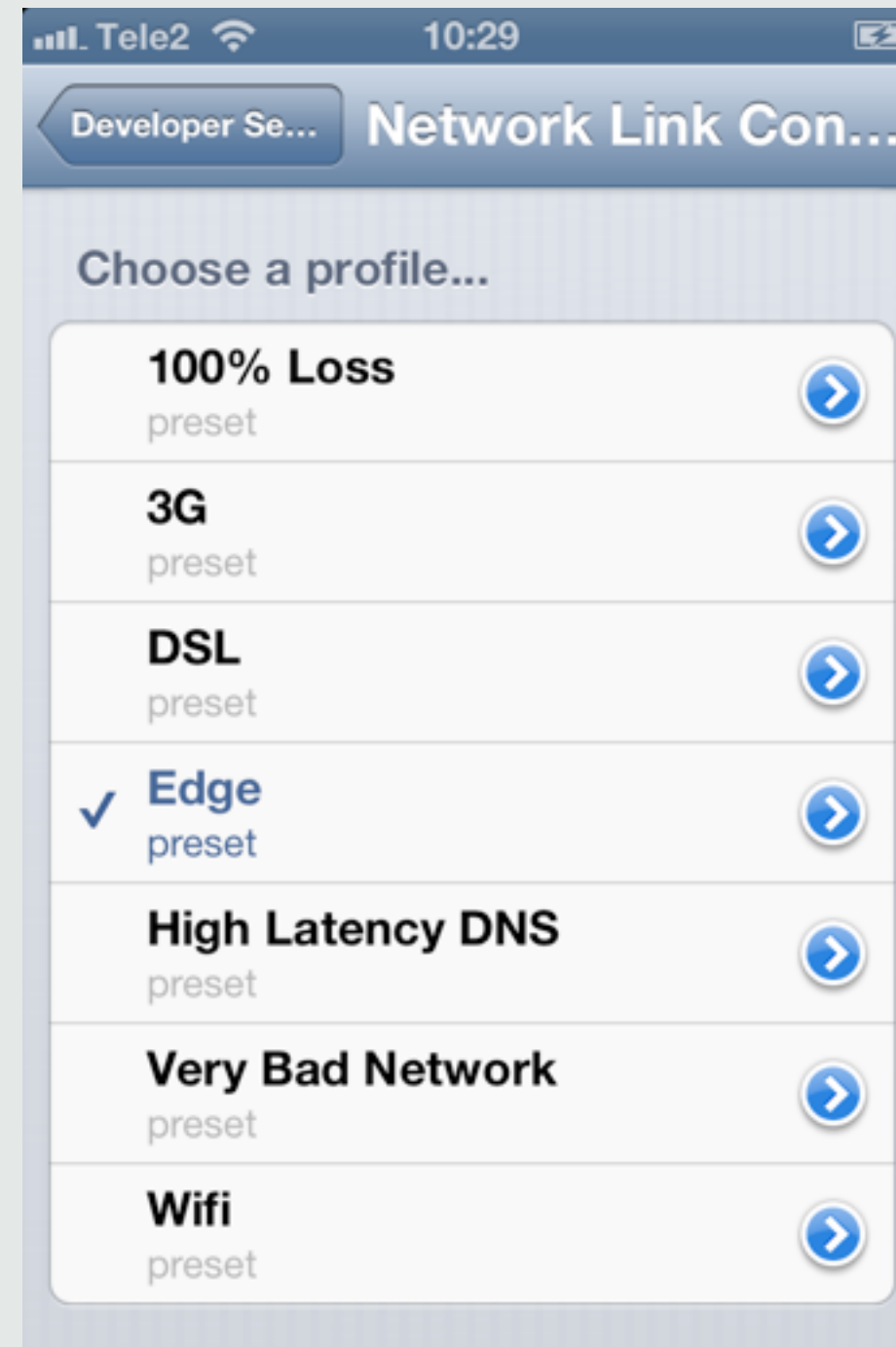
Load Time	Page Size	Waterfall Chart	Screenshot
11.02s	731.91kb		

**AFTONBLADET**



# IOS 6

*network link conditioner*



*...but you need to setup your device for development in Xcode*

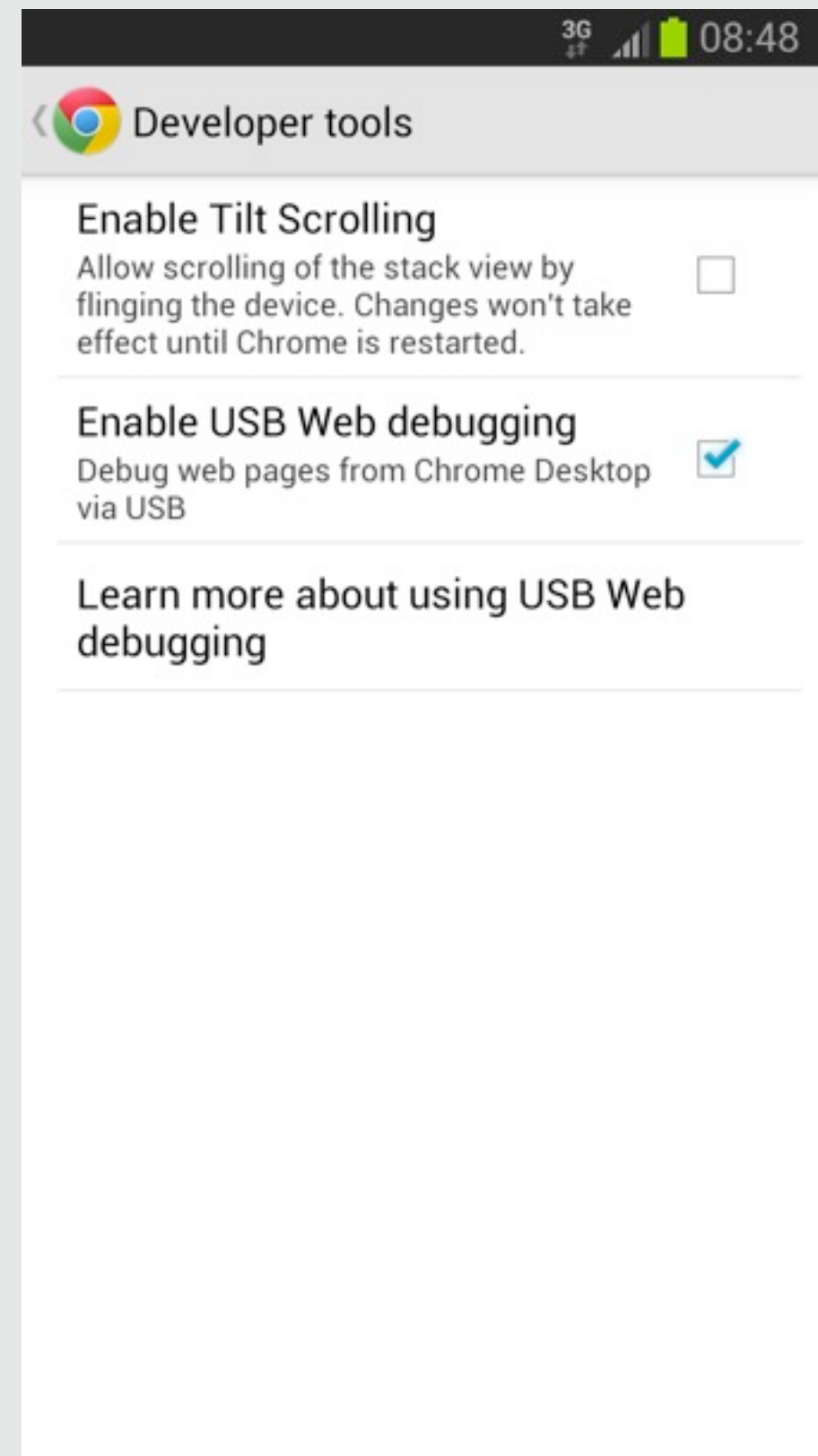
**AFTONBLADET**

# REMOTE DEBUGGING

**AFTONBLADET**

# DEBUGGING

*Chrome on Android*



<https://developers.google.com/chrome-developer-tools/docs/remote-debugging>

**AFTONBLADET**

# DEBUGGING

## *Safari on iOS 6*



<http://developer.apple.com/library/ios/documentation/AppleApplications/Reference/SafariWebContent/DebuggingSafariiPhoneContent/DebuggingSafariiPhoneContent.html>

**AFTONBLADET**

# LOADING/RENDERING

**YSLOW / PAGESPEED**

**WEBPAGETEST.ORG**

**SPOF-O-MATIC**

**GOOGLE ANALYTICS/NEW RELIC/TORBIT/PINGDOM/GOMEZ/LOGNORMAL**

**BOOMERANG**

**PAGESPEED ONLINE: THE CRITICAL PATH**

**GTMETRICS.COM/SHOWSLOW.COM**

# MAINTAIN A RESPONSIVE UI

**DYNATRACE AJAX EDITION**

**CHROME DEVELOPER TOOLS**

# MOBILE

**WEBPAGETEST.ORG/MOBITEST.AKAMAI.COM**

**CHROME (ANDROID)**

**SAFARI (IOS)**

**AFTONBLADET**

<http://bloggar.aftonbladet.se/utvecklingsbloggen/>

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*@jarlund*

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