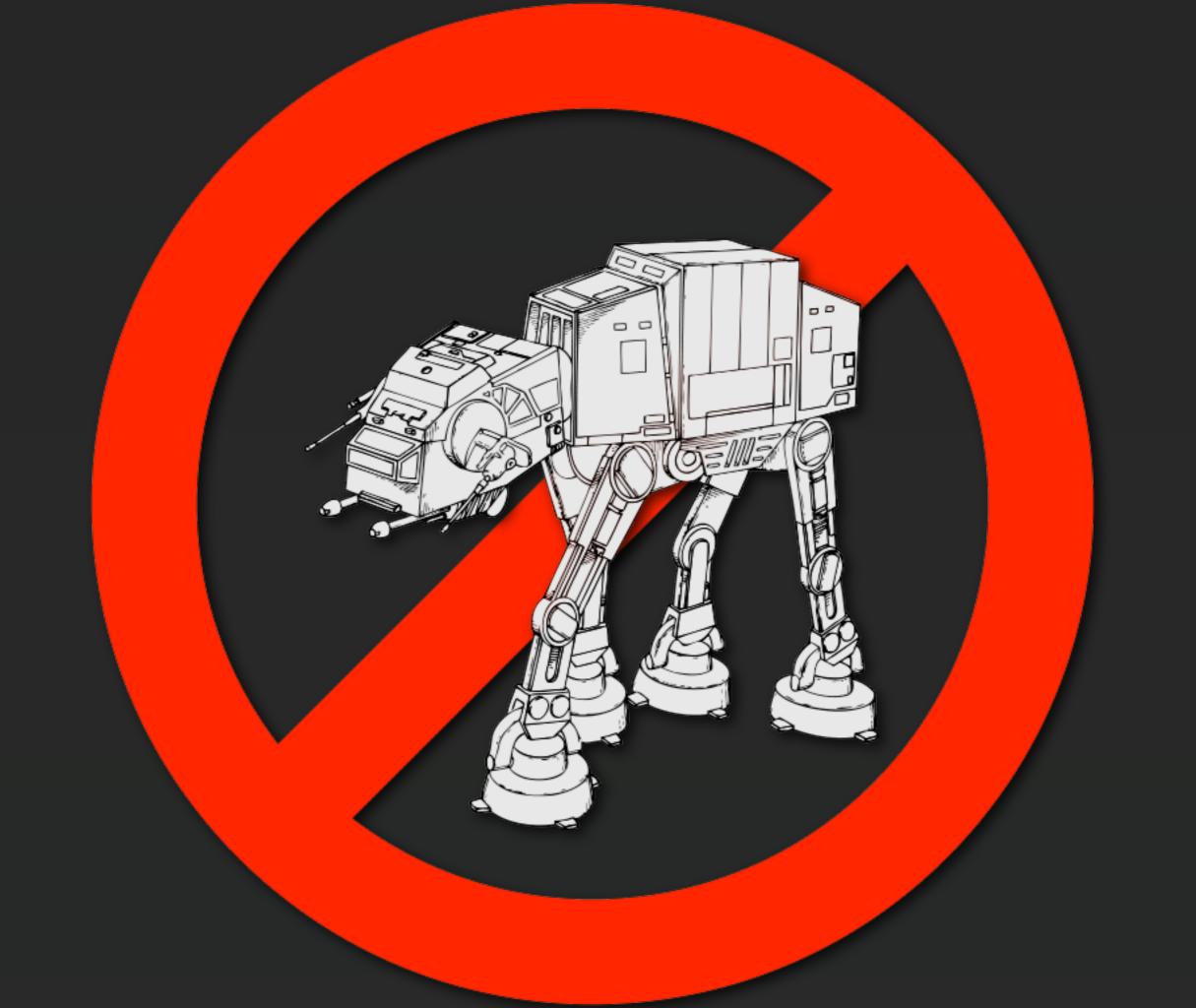
## Back to Front Performance.

FOWA/FOM London 2012 @drewm











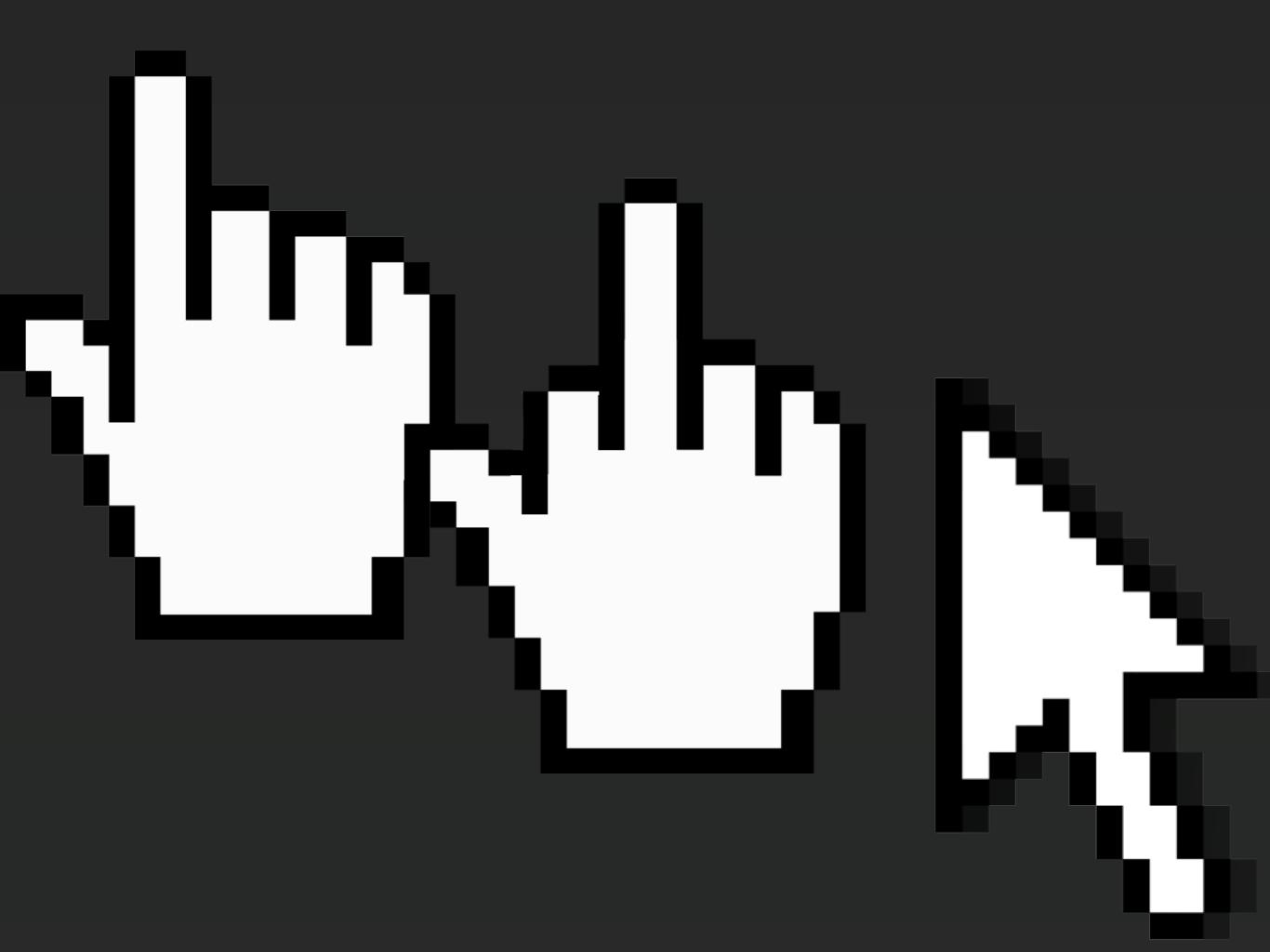








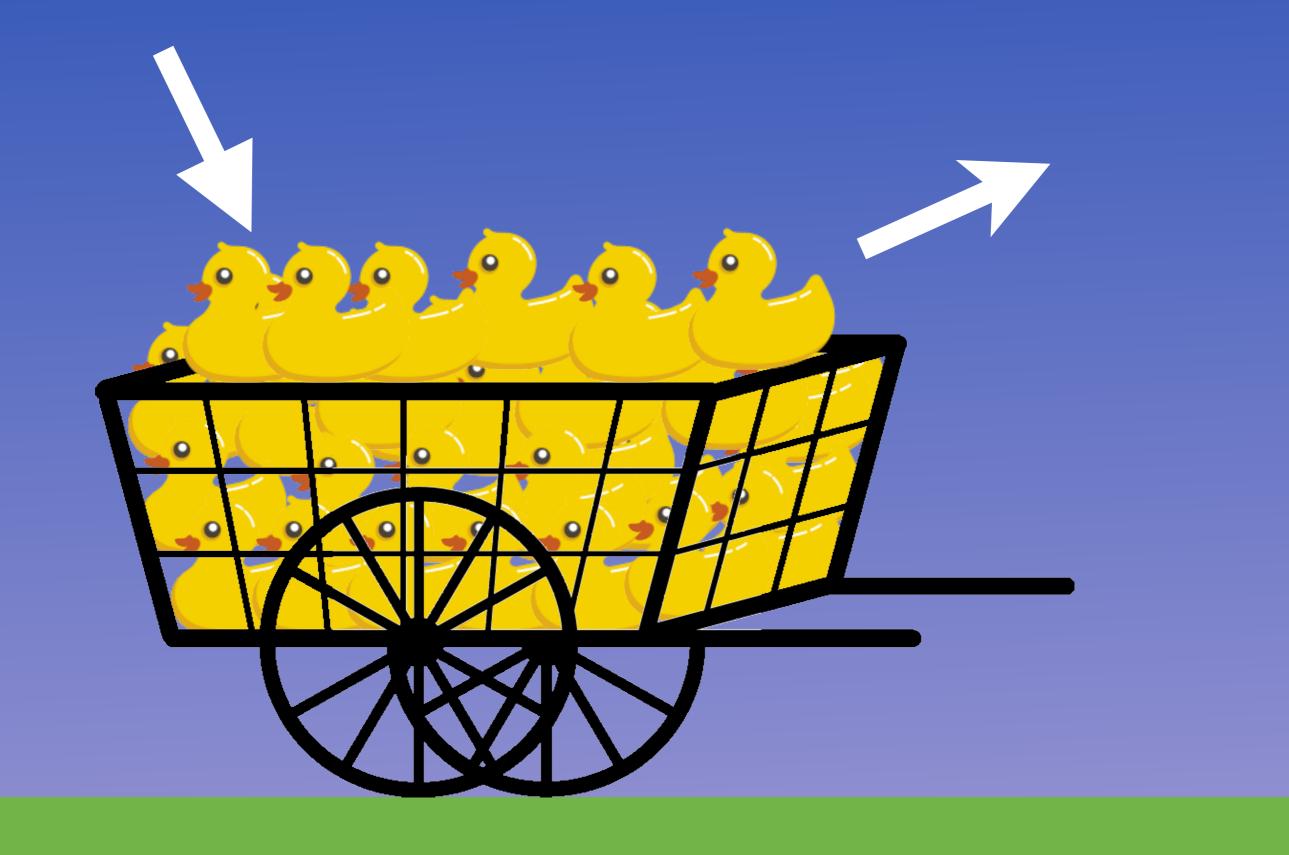




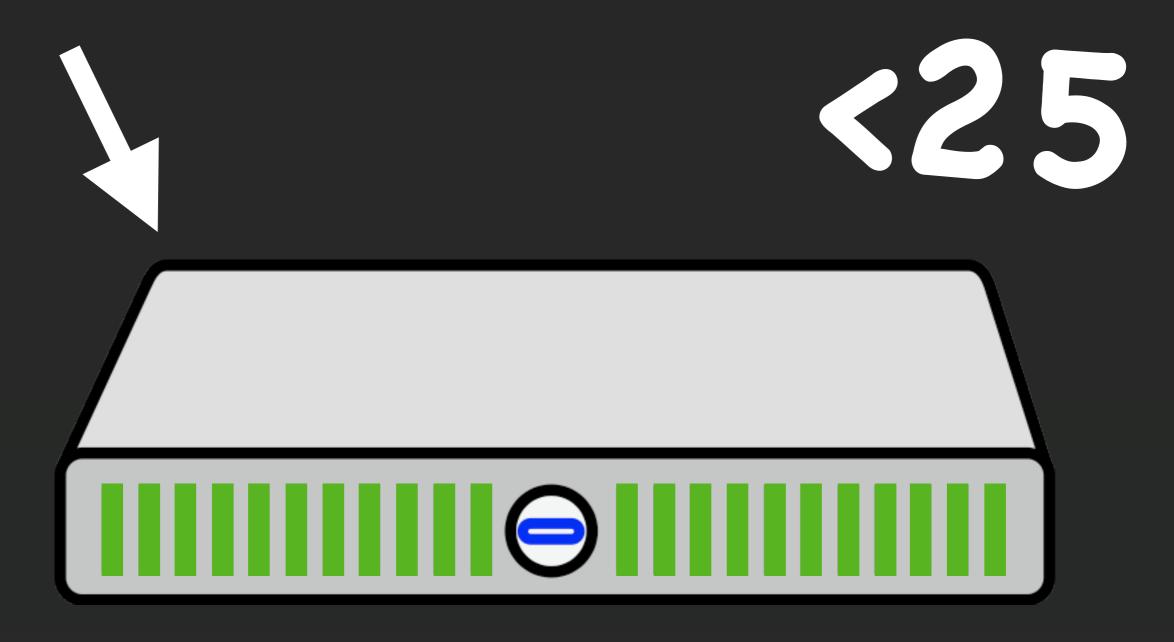
## Performance is a feature.



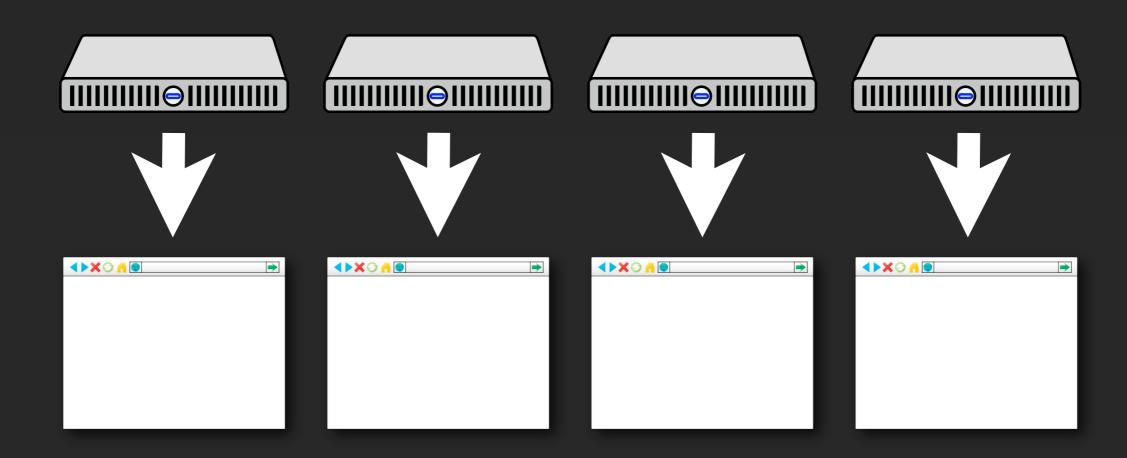
# The Steve Souders Problem.



## 256MB 10MB



# Performance under load depends on the time taken to process each request.



### The Back End.

## Hosting.

# Cheap hosting is expensive.

# Shared hosting is the worst.

# Consider what your project cost to build when buying hosting.

# Use the best hosting you can afford, not the cheapest you can get away with.



Now





Space\* dth\* Hosting counts

ng Credits rantee



## Hot Girls Love Hosting!

Initial term of 12, 24 or 36 months Regular Price Only £4.99\* VAT not included 1

ANYTIME MONEY-BACK **GUARANTEE** 

Sign Up Now »





FREE C

- **FREE Domain Registration**
- FREE Instant Setup
- No Hidden Fees

#### Special Introductory Offer

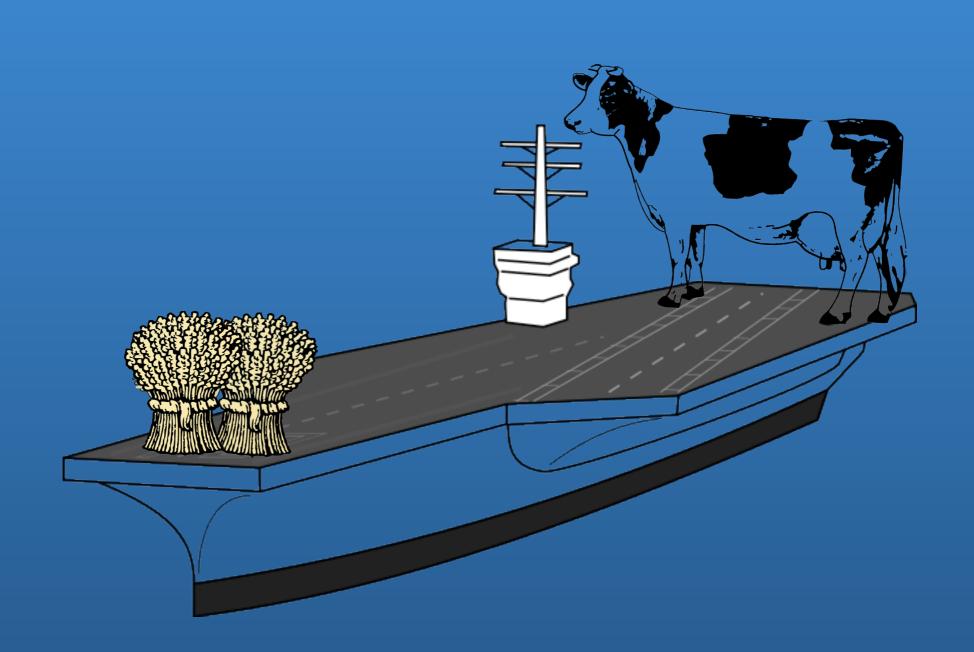
Initial Term: 36, 48 months from £4.39/mo <sup>1</sup> VAT Not Included

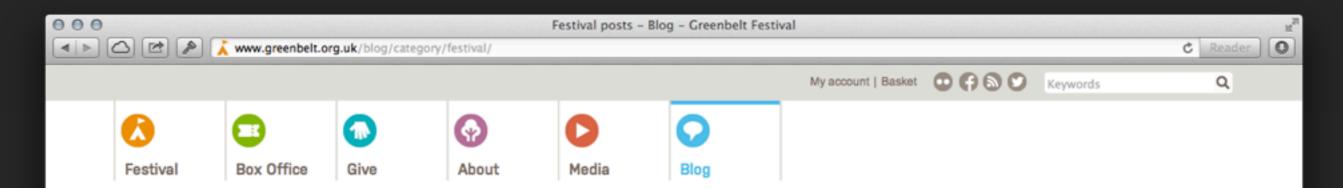
Sign Up Now



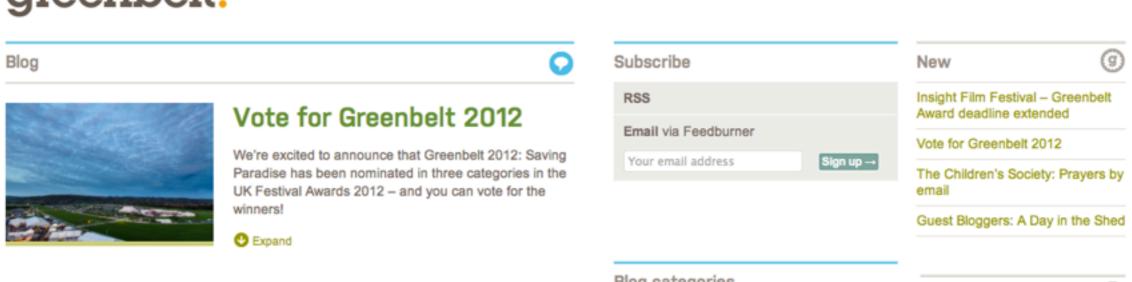








#### greenbelt.





### Guest Bloggers: A Day in the Shed

Recalling a few events at Greenbelt 2012 that you might have missed, our Guest Bloggers are here to brighten up those dark post-Greenbelt months! Here's Louisa Casson from the UKYCC, who took part in several sessions in the Youth programme...

Expand

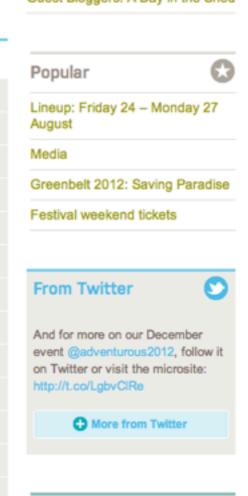


#### Greenbelt 2012 Festival Surveys

Each year, we turn to our festivalgoers to tell us of their experience at Greenbelt, as we review the past year with the aim of improving future festivals...

Expand





Get dispatches

**Blog categories** Festival (400) Arts (181) Faith (131)

SELECT c.catTitle, COUNT(c2p.catID) as qty FROM tblBlogCategories c, tblBlogPost\_Categories c2p WHERE c.catID=c2p.catID GROUP BY c.catID ORDER BY qty DESC

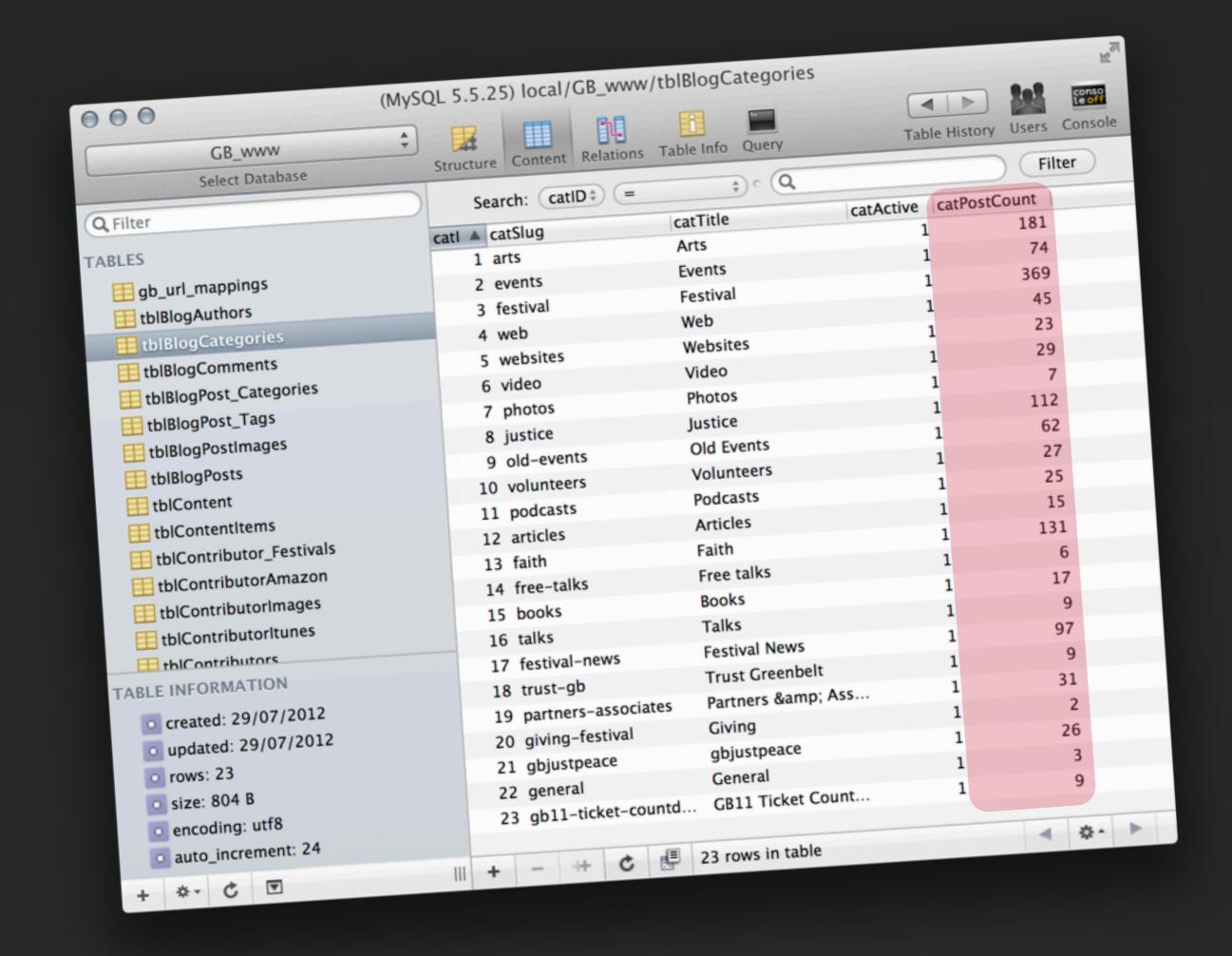
Websites (23) **Books** (17) Articles (15)

Talks (9)

Trust Greenbelt (9)

**GB11 Ticket Countdown** (9)

Photos (7)



Fetch from cache.

3. Output to page

>\_

### How real-time is this data?

### Do the work once.

# Premature optimization is the root of all evil.

There is no doubt that the grail of efficiency leads to abuse. Programmers waste enormous amounts of time thinking about, or worrying about, the speed of noncritical parts of their programs, and these attempts at efficiency actually have a strong negative impact when debugging and maintenance are considered.

We should forget about small efficiencies, say about 97% of the time: premature optimization is the root of all evil.

Yet we should not pass up our opportunities in that critical 3%. A good programmer will not be lulled into complacency by such reasoning, he will be wise to look carefully at the critical code; but only after that code has been identified.

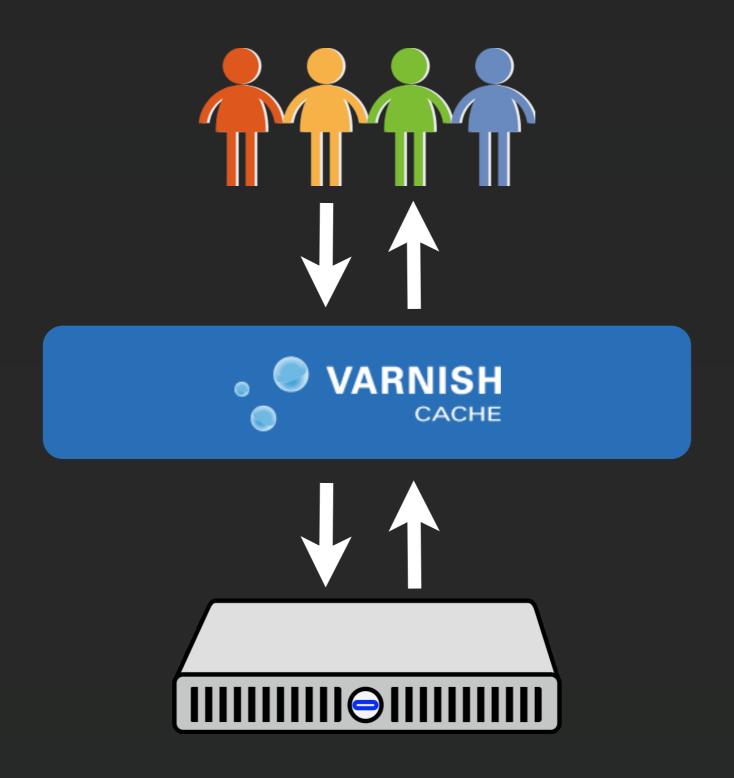
# The fear of premature optimization is the root of all evil.



# Let's make programming fun!

# Insanity is doing the same thing over and over again and expecting different results.

## The Network.

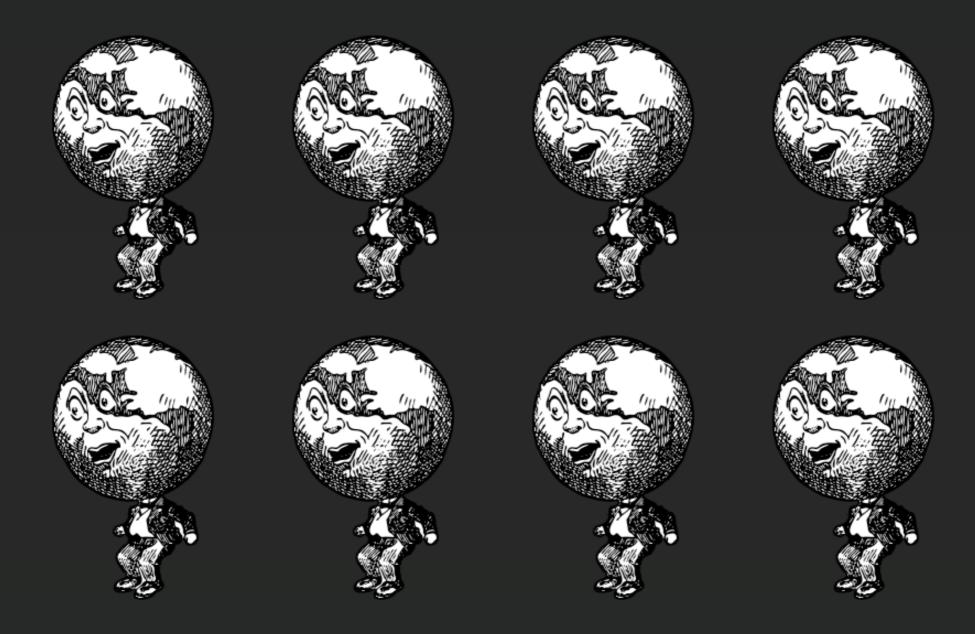


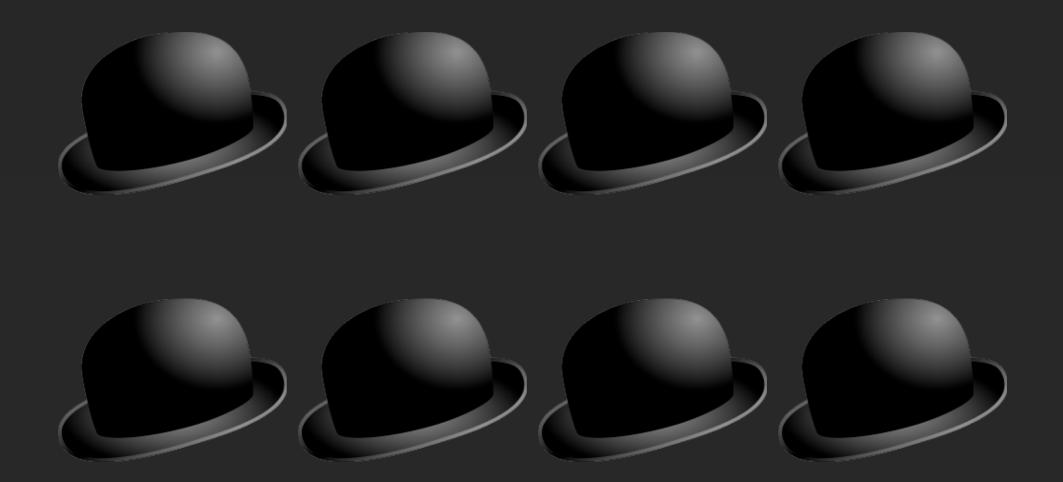
www.varnish-cache.org

# Divide resources across domain names.

s1.example.com s1.example.com s2.example.com s2.example.com s3.example.com s3.example.com s4.example.com s4.example.com





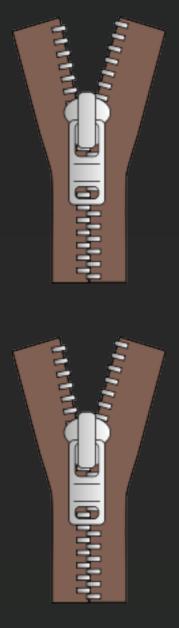


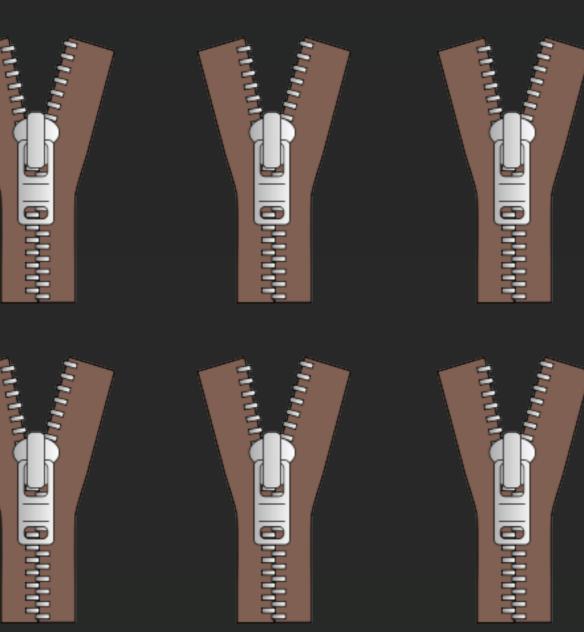
#### ExpiresActive on

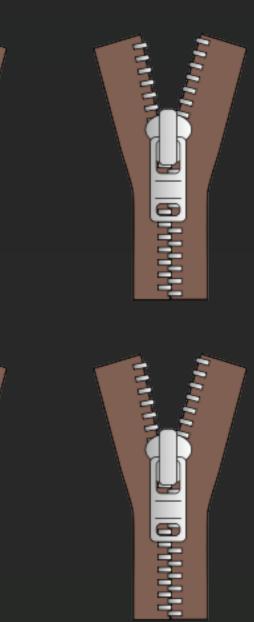
ExpiresByType image/jpg "access plus 7 days"
ExpiresByType image/gif "access plus 7 days"
ExpiresByType image/jpeg "access plus 7 days"
ExpiresByType image/png "access plus 7 days"

ExpiresDefault "access plus 10 years"





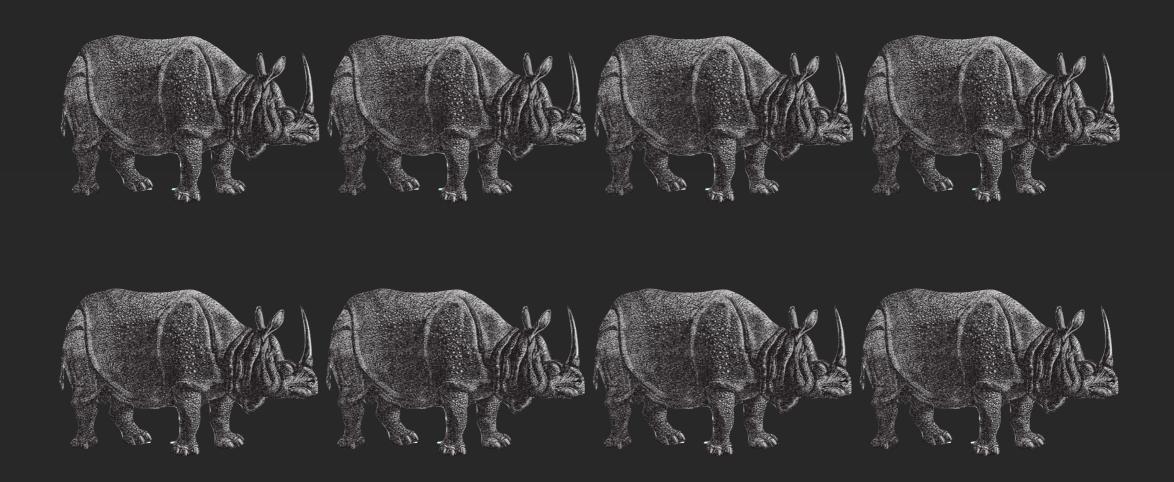


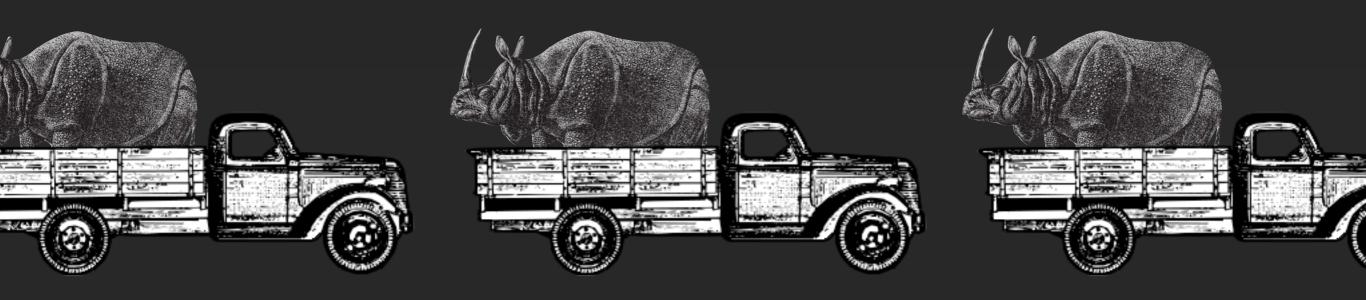


```
AddOutputFilterByType DEFLATE
text/html
text/plain
text/xml
text/css
text/javascript
application/javascript
```

# www.whatsmyip.org/http-compression-test/

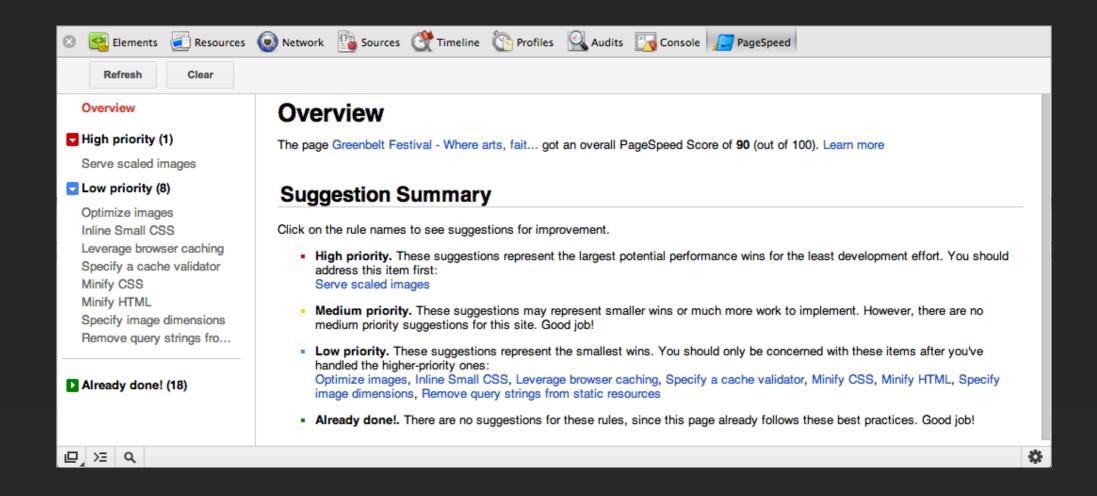
# The Front End.

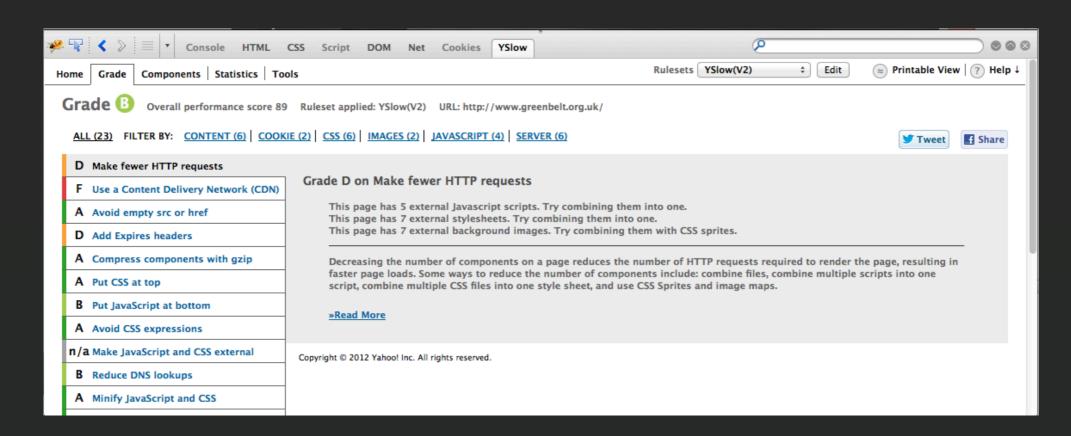




github/ded/script.js/ stevesouders.com/controljs/ developers.google.com/loader/











#### Overview

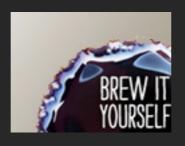
- High priority (1)
  Serve scaled images
- Low priority (8)

Optimize images
Inline Small CSS
Leverage browser caching
Specify a cache validator
Minify CSS
Minify HTML
Specify image dimensions
Remove query strings fro...







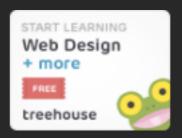














24ways.org/201106

#### Steve Souders + Books

stevesouders.com

# Yahoo! Exceptional Performance developer.yahoo.com/performance/

# The Back End.

# The Front End.

### The End.

Drew McLellan allinthehead.com / @drewm

Thanks, FOWA!