

WordPress Knoxville

Squeezing Performance out of WordPress

Feb. 13, 2012

What is performance?

Why so slow?

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Congress tries to give president line-item veto ↗

news.yahoo.com — The Republican-led House is trying to give President Barack Obama the line-item veto, a power over the purse that has been sought by both Republica...

6 min ago via Informer submitted in World News and Politics

f 80 t 30 🔥 9 Comments



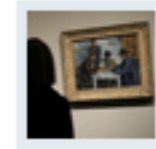
60

The 10 Most Expensive Artworks Ever Sold (Slideshow) ↗

theweek.com — Paul Cezanne's "Card Players" may be on top now, but other venerable works blazed this increasingly pricey path before it.

16 min ago via Good Guy Greg submitted in Lifestyle

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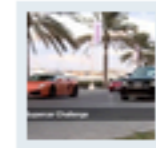


244

Nissan releases official footage of Juke-R supercar street race in Dubai

www.autoblog.com — The 480-horsepower, Godzilla-powered Juke-R.. AKA the supercar-beater. And to prove the point, Nissan took it to Dubai for a little street racing action.

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Rafael Morelos, Gay Washington Teen, Commits Suicide After Reportedly Enduring Anti-Gay Bullying,... ↗

huffingtonpost.com — Family members and friends are distraught over the death of a Washington teen who reportedly killed himself because he was bullied by his



Feedback



<http://www.flickr.com/photos/jcolman/560134326/sizes//in/photostream/>

But I have
my own server!

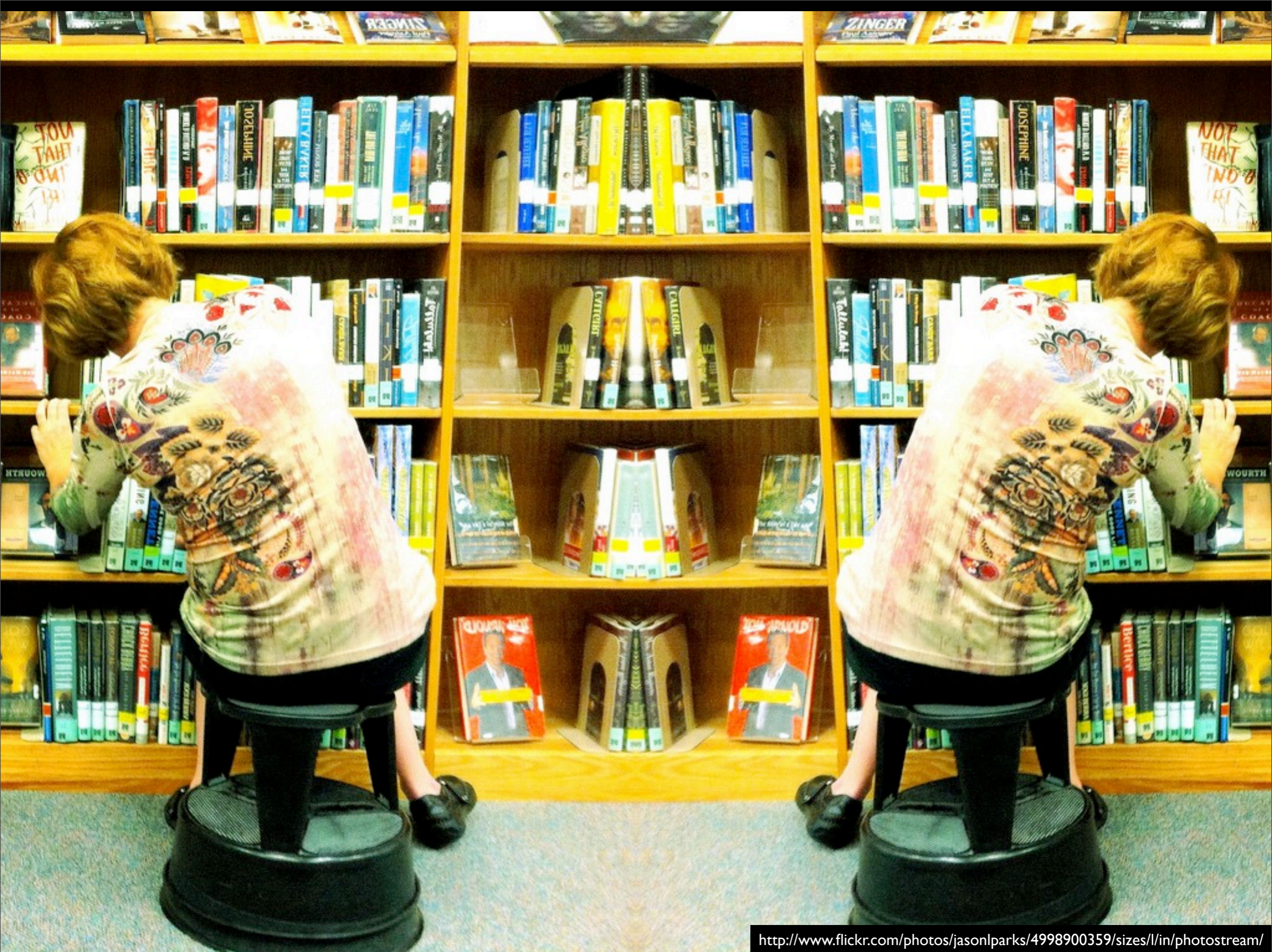




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Squeeeeeeze!

Under the Hood(ish)

- Browser sends request to web server
- Server sends request to PHP
- PHP loads up WordPress
- WordPress does computation
- WordPress loads data from a database
- WordPress assembles it all and spits it out
- Web server sends it back to the browser.

Why Should I Care?

- People like pages that load quickly
- **Search Engines** like pages that load quickly
- People can't read your blog if it's not available
- Infrastructure costs money

Spreading the Load

- Use a faster/lighter web server
- Load static assets from somewhere else
- Smaller payload (gzip/minify)
- Don't hit the database
- Don't make PHP do any work (load from files cached to disk)
- Don't even hit the disk (load from memory)
- Load everything from memory on many servers

WP Super Cache

- Three modes: PHP, mod_rewrite, legacy
- Preloading of content (pre-caching)
- 3mm downloads, 4-stars (1154 ratings)
- Active development/forums (Jan. 30 update)
- Some dynamic content still possible
- Donncha

W3 Total Cache

- More complete caching
- Works with CDNs and minifies files; can also minify/cache remote assets
- Cache to memory or disk
- 1mm downloads, 4.5 stars (2129 ratings)
- Last commit 5 months ago, but very active forums

Specs	Concurrency	Load	Test Time	Req./ Sec.
No caching	25	16.82	72	13.9
No caching	10	6.53	69	14.6
Super Cache / PHP	10	0.29	13	77.6
Super Cache / mod_rewrite	10	0.02	11	90.1
Super Cache / gzip	10	0.01	12	86.6
Super Cache / mod_rewrite	25	0.01	5	198.99
W3 Basic	10	0.08	12	83.61
W3 / minify	10	0.03	11	91.2
W3 / db cache	10	0.14	11	90.07
W3 object cache	10	?	11	91.5
W3 object cache	25	0.01	5	197.4

Tools for Users

- YSlow (browser extension) -- <http://yhoo.it/14XIp>
- Some Google Tools -- <http://bit.ly/4l1rrU>
- WPENGINE Speed test -- <http://speed.wpengine.com/>

Tools for Developers

- <http://danga.com/mogilefs/>
- <http://memcached.org/>
- <https://www.varnish-cache.org/>
- <http://codex.wordpress.org/HyperDB>
- S3 for CDN, naturally

Discussion