Speed is key

My personal quest for a faster website

https://geek.hellyer.kiwi
@ryanhellyer

WordPress

Land of the worlds crappiest internet!

Host
Gator

RYAN HELLYER

WordPress geekiness.
Plugins, code tips and more!

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Geolocating quiz answers

Published January 3rd, 2015 under General // Edit

Ever wondered how those link bait'ish things you see on Facebook can accurately guess which country you are from? I decided to do some testing.

Offline cache plugin for WordPress

Published December 26th, 2014 under Plugins // Edit

On Christmas day I built an offline caching plugin for WordPress. I needed it for a comic book app I'm making to help me learn the German language.

My face in 3D

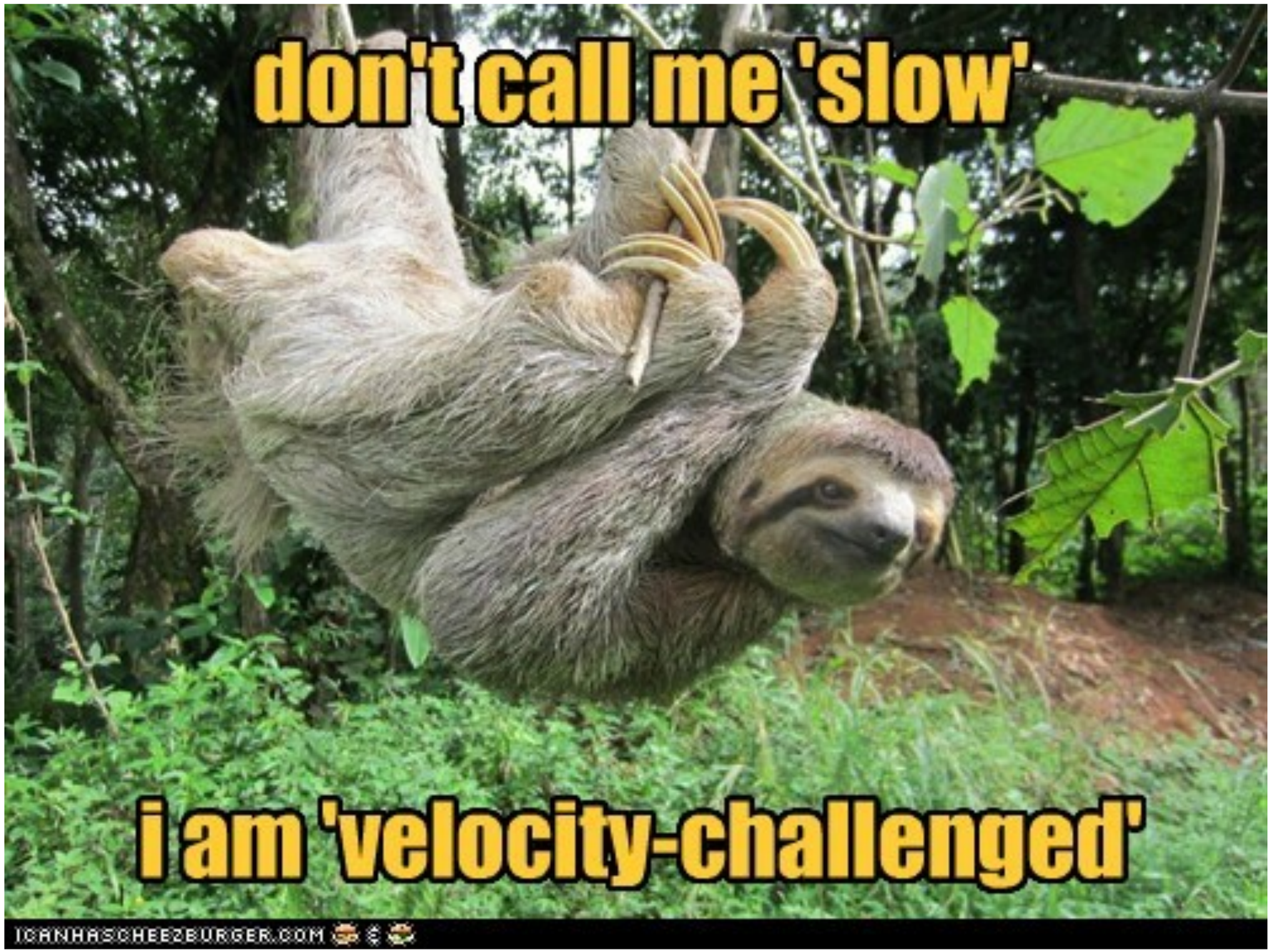
@ryanhellyer on Twitter

Wanna be tripping balls without magic pills? Strap Google Cardboard to your head and view the world through your phones camera. about 4 hours ago

RT @ForSite: Yes, you heard right: @karimmarucchi from @crowdfavorite did just confirm at #pressnomics that we are going to be working toge… about 20 hours ago

@NinjaLikesCheez That sucks. Any ideas on what might be wrong? 09:43:44 AM January 23, 2015 in reply to NinjaLikesCheez

WordPress obsessed Kiwi former scientist, who used to live in Canada, then Norway and


don't call me 'slow'
i am 'velocity-challenged'
ICANHASCHEEZBURGER.COM

ACCELERATE

TO ATTACK SPEED

Static caching

Use faster software

- Nginx?
- HHVM?

~40,000 registered users in one day

"There are only two hard things in computer science, cache invalidation and naming things."

- Phil Karlton

Persistent object caching

- Query count … ~20 -> ~4

* AKA fragment caching

Why is WordPress slow?

- Backs compatibility
- Not all hosts have good caching backends.

Userful caching backends

In memory cache

- Memcached
- APC
- Redis

Disk based

- More capacity

WILLANS

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Extra steps

- Use external services for dynamic stuff
  Disqus comments
- Spam protection
  https://geek.hellyer.kiwi/plugins/spam-destroyer/
- Fail2Ban
- SPDY protocol
- Block wp-login.php
- Offline caching
  https://geek.hellyer.kiwi/plugins/offline-cache-plugin/
- Weed out bad plugins
  https://github.com/Rarst/laps
  https://wpperformanceprofiler.interconnectit.com/

Measuring page speed

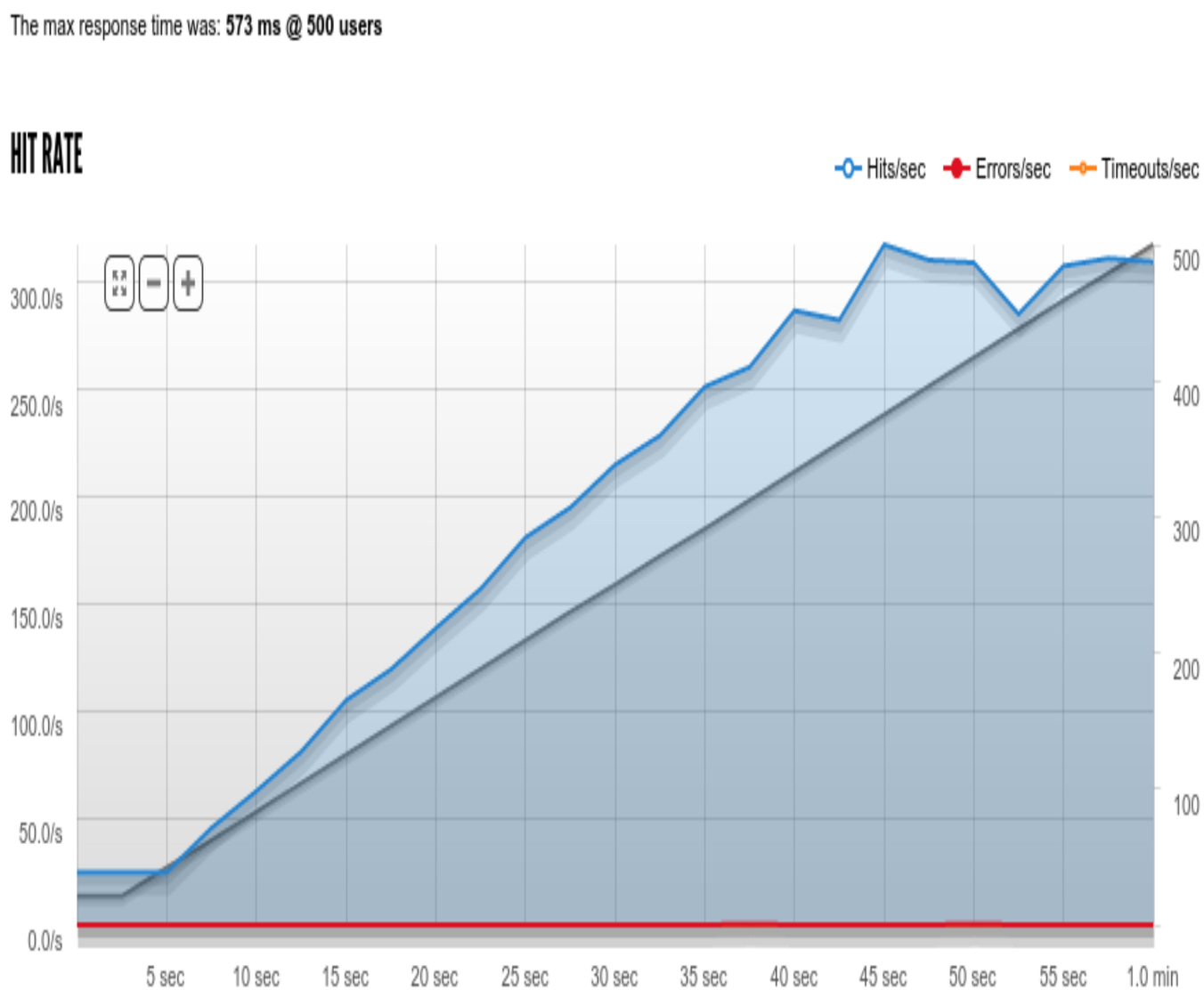
- Pingdom
- Google Page Speed
- Yahoo! YSlow
- GT Metrix

Caching has almost no effect on these.

Measure individual page speed instead of ability to handle traffic.

Measuring ability to handle load

- Apache Bench
- Siege
- Blitz.io



Performance monitoring over time

pingdom

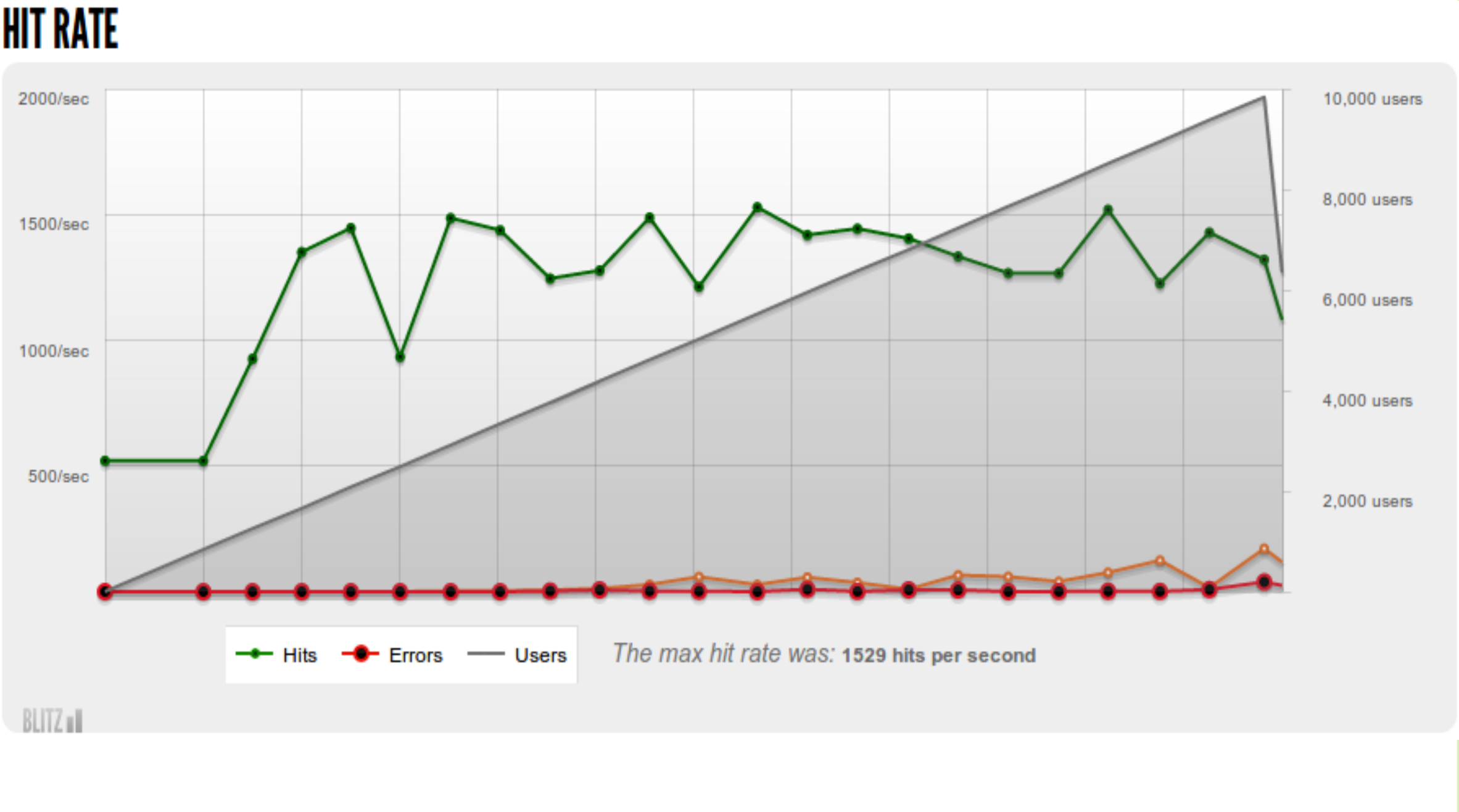
CLOUDFLARE®

reverse proxy

“Website Offline, No Cached Version Available”

CDN all the things!

1500 page views per second
Initial page loads within 6 ms!!!!



Take home message …

Caching is hard

https://geek.hellyer.kiwi/presentations/

@ryanhellyer

BitTorrent® Sync