Speed is key

How and why to use caching on your website

Land of the worlds crappiest internet!

Host
Gator

RYAN HELLYER

WordPress geekiness.
Plugins, code tips and more!

Blog | Plugins | Tools | About

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

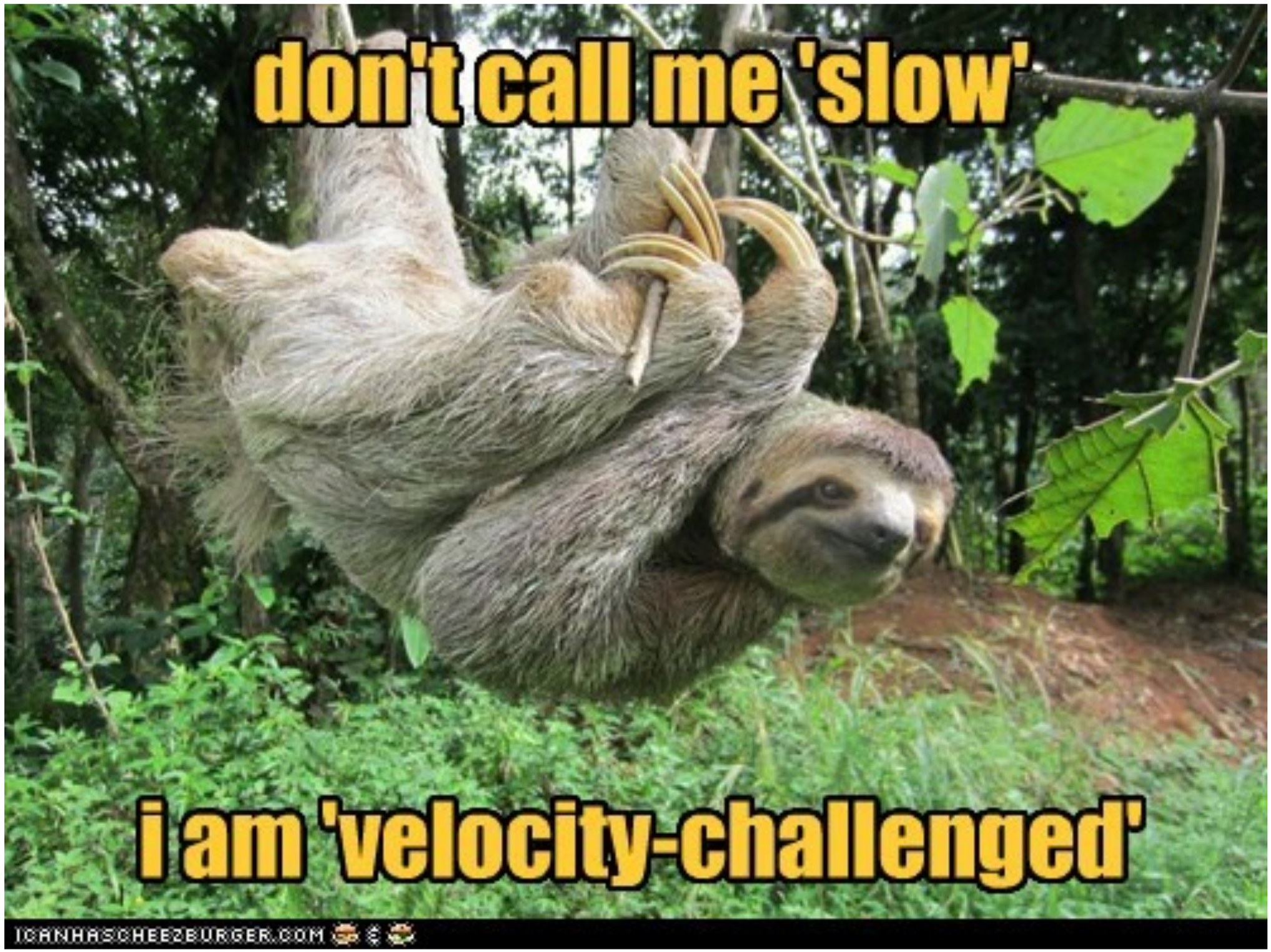
@ryanhellyer on Twitter

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?

WP Engine

Pressable

PAGELY®

SiteGround

Test blog (View site »)

Dashboard Write **Manage** Links Presentation Plugins Users Options Logout (Administrator)

Posts Pages Categories Comments Awaiting Moderation (0) Files

Last 15 Posts

Search Posts... Search

Browse Month... May 2013 Show Month

ID	When	Title	Categories	Comments	Author			
1	2013-05-23 10:51:47 am	Hello world!	Uncategorized	1	Administrator	View	Edit	Delete

Comments

1. 2013-5-23 @ 10:05:47 am [Edit - Delete - Unapprove]
   Mr WordPress (/ http://wordpress.org) (IP: 127.0.0.1)

   Hi, this is a comment.
   To delete a comment, just log in, and view the posts' comments, there you will have the option to edit or delete them.

WordPress
1.5 — Support Forums

https://geek.hellyer.kiwi/tools/historic-wordpress/

~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

- wp-content/object-cache.php
- Query count … ~20 -> ~4

Object caching backends

In memory cache

- Memcached
- APC
- Redis

WILLANS

RYAN HELLYER

WordPress geekiness.
Plugins, code tips and more!

Blog | Plugins | Tools | About

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

Caching your bits

Widgets

https://github.com/kasparsd/widget-output-cache

Fragment caching plugin

https://github.com/Rarst/fragment-cache

Menus

https://geek.hellyer.kiwi/plugins/menu-cache/

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

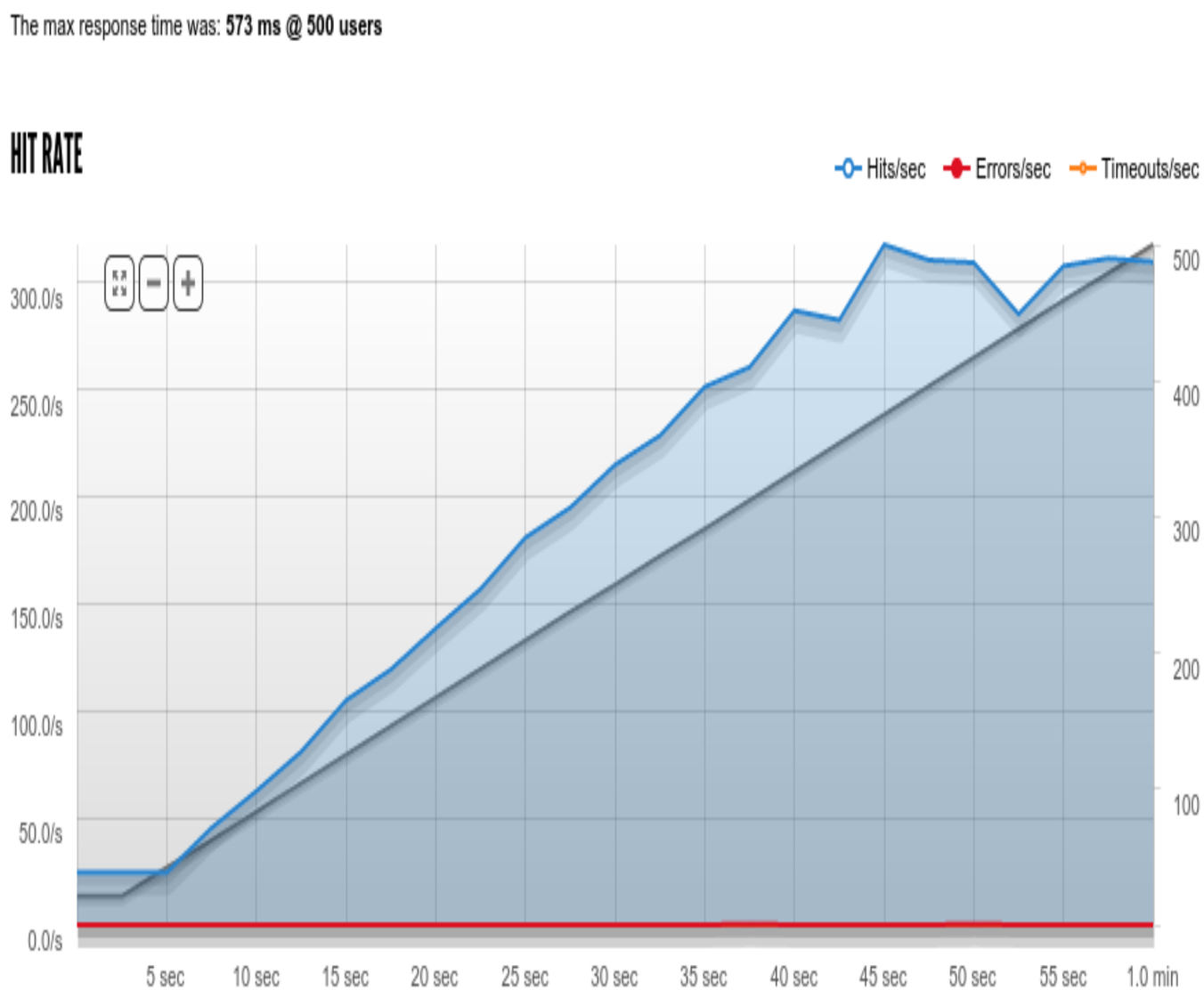
- Pingdom
- Google Page Speed
- Yahoo! YSlow
- GT Metrix

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

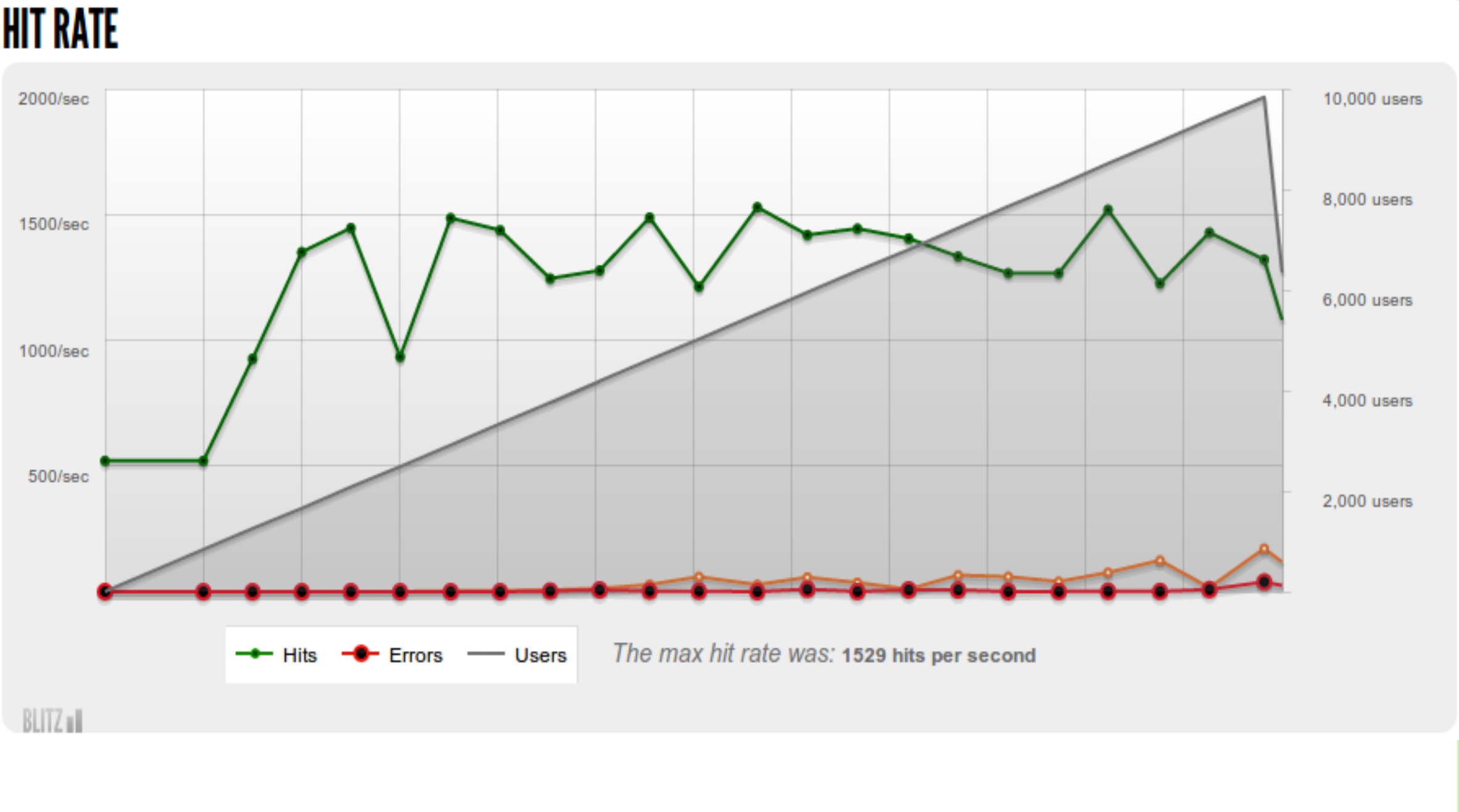
CLOUDFLARE®

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