



# Speed is key

How and why to use caching

*Wie und warum caching verwenden*



Land of the worlds crappiest internet!  
Das Land mit der schlechtesten Internetverbindung





# RYAN HELLYER

WordPress geekiness.  
Plugins, code tips and more!



Blog ●

Plugins ○

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## Geolocating quiz answers

Published January 3rd, 2015 under [General](#) // [Edit](#)

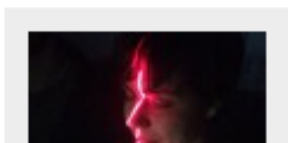
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Published December 26th, 2014 under [Plugins](#) // [Edit](#)

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## My face in 3D

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





# Norway

## *Norwegen*





**don't call me 'slow'**

**i am 'velocity-challenged'**





**ACCELERATE**



**TO ATTACK SPEED**



Static page caching

*Statisches cachieren von Internetseiten*



# Use faster software

## *Verwenden Sie schnellere 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<br>10:51:47 am | Hello world! | <a href="#">Uncategorized</a> | <a href="#">1</a> | Administrator | <a href="#">View</a> | <a href="#">Edit</a> | <a href="#">Delete</a> |

## 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 users in one day  
*40,000 benutzer im eins tag*



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

- Phil Karlton

Es gibt nur zwei schwierige Dinge in der Informatik,  
Namensgebung und zu entscheiden wann das Ablaufdatum  
einer Zwischenspeicherung erreicht ist.

- *Phil Karlton*





# Persistent object caching

## *Persistent-Objekt-Cachen*

- wp-content/object-cache.php
- Database queries ... ~20 -> ~4  
*Datenbankabfragen ... ~20 -> ~4*
- May need theme customisation  
*Könnte Theme-Anpassungen benötigen*



# Object caching

## *Objekt-Cachen*

In memory cache

*In Memory-Cache*

- Memcached
- APC
- Redis









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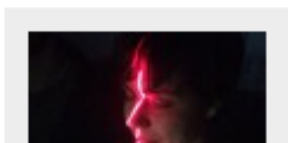
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# Caching your bits

## *Cache dein Bits*



### **Widgets**

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



### **Fragment caching plugin**

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



### **Menus**

#### *Menüs*

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



# Profiling Plugins

Find bad Plugins

*Schlechte Plugins finden*

- <https://github.com/Rarst/laps>
- <https://wppperformanceprofiler.interconnectit.com/>

Anti-spam

- <https://geek.hellyer.kiwi/plugins/spam-destroyer/>



# Page optimisation

## *Seitenoptimierung*

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

These do not measure caching.

*Diese müssen nicht Caching messen.*

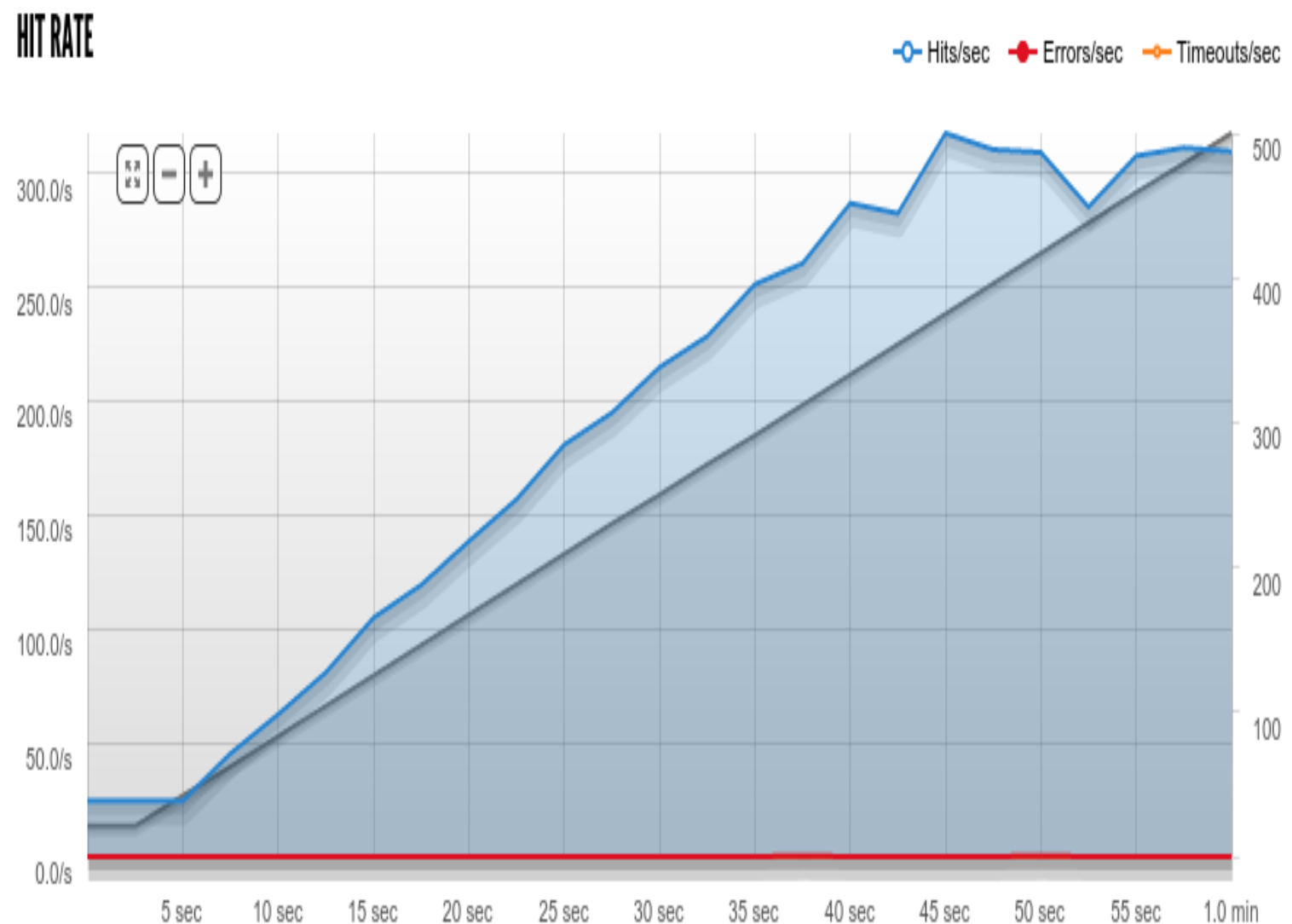


# Measure Caching

## *Caching metten*

- Apache Bench
- Siege
- Blitz.io

The max response time was: 573 ms @ 500 users





# pingdom

ryan.hellyer.kiwi

type: HTTP, host: ryan.hellyer.kiwi



DOWNTIME

1h

(17 outages)

UPTIME

99.98%

Take home message ...

Caching is hard

*Cachen ist schwierig*



**QUESTIONS?**



**FRAGEN?**

imgflip.com/ite.com

[https://geek.hellyer.kiwi/presentations/  
@ryanhellyer](https://geek.hellyer.kiwi/presentations/@ryanhellyer)

