

# Speedup Your Site mit Caching

Ein Überblick über WordPress Caching-Plugins und die unterschiedlichen Arten des Cachings (Browser, Object, Datenbank, CDN)

# `<blink><font size=4>`Zur Person`</font></blink>`

Daniel Jagszent

- Einer der zwei Geschäftsführer der SaaS Web: Managed Application Hosting
- 20 Jahre Erfahrung in der Erstellung und dem Betrieb von Webanwendungen und Websites

# Agenda

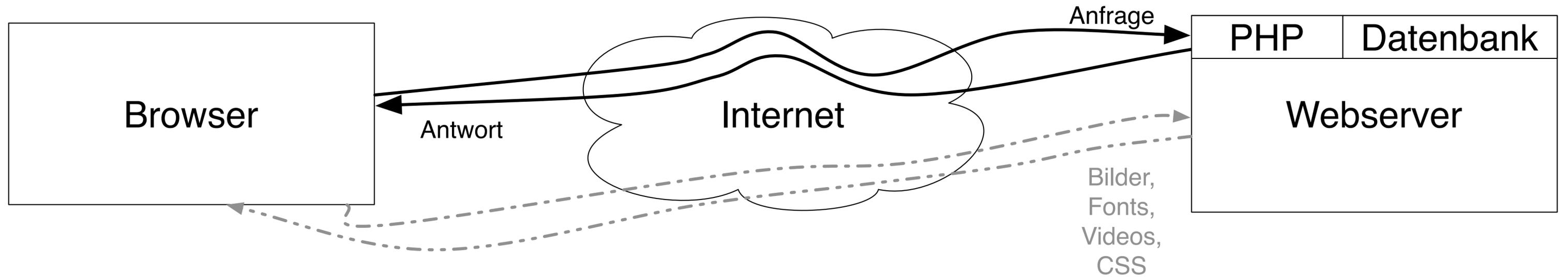
- Cache: Eine Einführung
- WordPress Cache Plugins
- Probleme
- Vertrauen ist gut...

# Cache: Eine Einführung



Cache ([kæʃ], [kaʃ]) bezeichnet in der EDV einen schnellen Puffer-Speicher, der (wiederholte) Zugriffe auf ein langsames Hintergrundmedium oder aufwendige Neuberechnungen zu vermeiden hilft. Daten, die bereits einmal geladen oder generiert wurden, verbleiben im Cache, so dass sie bei späterem Bedarf schneller wieder abgerufen werden können.

– <https://de.wikipedia.org/wiki/Cache>



# Cache im Kontext von WordPress

# WordPress Cache Plugins

# Zen Cache

- Browser und Page Cache
- PHP-basiert, läuft überall
- Leichte Konfiguration, viele Hilfestellungen
- Hat „Pro“-Version mit mehr Features



The screenshot shows the WordPress.org Plugin Directory page for ZenCache. At the top, there's the WordPress.org logo and a search bar. Below that, navigation links for Showcase, Themes, Plugins, Mobile, Support, Get Involved, About, Blog, and Hosting are visible. The main heading is "Plugin Directory" with login fields for Username and Password, and a "Log in" button with links for "(forgot?)" and "Register".

The main content area features a large banner for ZenCache with the text "zenCache" in a stylized font, followed by "An advanced caching plugin for WordPress" and "~ inspired by simplicity". A "Zen Cache" badge is also present. Below the banner, a description states: "ZenCache is an advanced WordPress caching plugin inspired by simplicity. Speed up your site (BIG time!) with a reliable and fast WordPress cache." A prominent orange button says "Download Version 151107".

Below the description, there are tabs for "Description", "Installation", "FAQ", "Screenshots", "Other Notes", "Changelog", "Stats", "Support", "Reviews", and "Developers". The "Description" tab is active.

The description text continues: "If you care about the speed of your site, ZenCache is one of those plugins that you absolutely MUST have installed :-). ZenCache takes a real-time snapshot (building a cache) of every Page, Post, Category, Link, etc. These snapshots are then stored (cached) intuitively, so they can be referenced later, in order to save all of that processing time that has been dragging your site down and costing you money."

The final paragraph reads: "The ZenCache plugin uses configuration options that you select from the options panel. See: [ZenCache -> Options](#) in your Dashboard. Once a file has been cached, ZenCache uses advanced techniques that allow it to recognize when it should and should not serve a cached version of the file. By default, ZenCache does not serve cached pages to users".

# WP Fastest Cache

- Nur Page Cache
- Cache-Hit ohne PHP, nur im Webserver
- Läuft nicht überall
- Minification
- Hat „Pro“-Version mit mehr Features



The screenshot shows the WordPress.org Plugin Directory page for WP Fastest Cache. The page features a dark header with the WordPress logo and navigation links. Below the header, there's a search bar and a login/register section. The main content area has a large image of two cheetahs on a rock, with the text "WP Fastest Cache" overlaid. Below the image, there's a description: "The simplest and fastest WP Cache system" and a prominent orange button labeled "Download Version 0.8.5.5". At the bottom, there are links for "Description", "Installation", "FAQ", "Screenshots", "Changelog", "Stats", "Support", "Reviews", and "Developers".

**Official Web Site**  
You can find more information on our web site ([wpfastestcache.com](http://wpfastestcache.com))

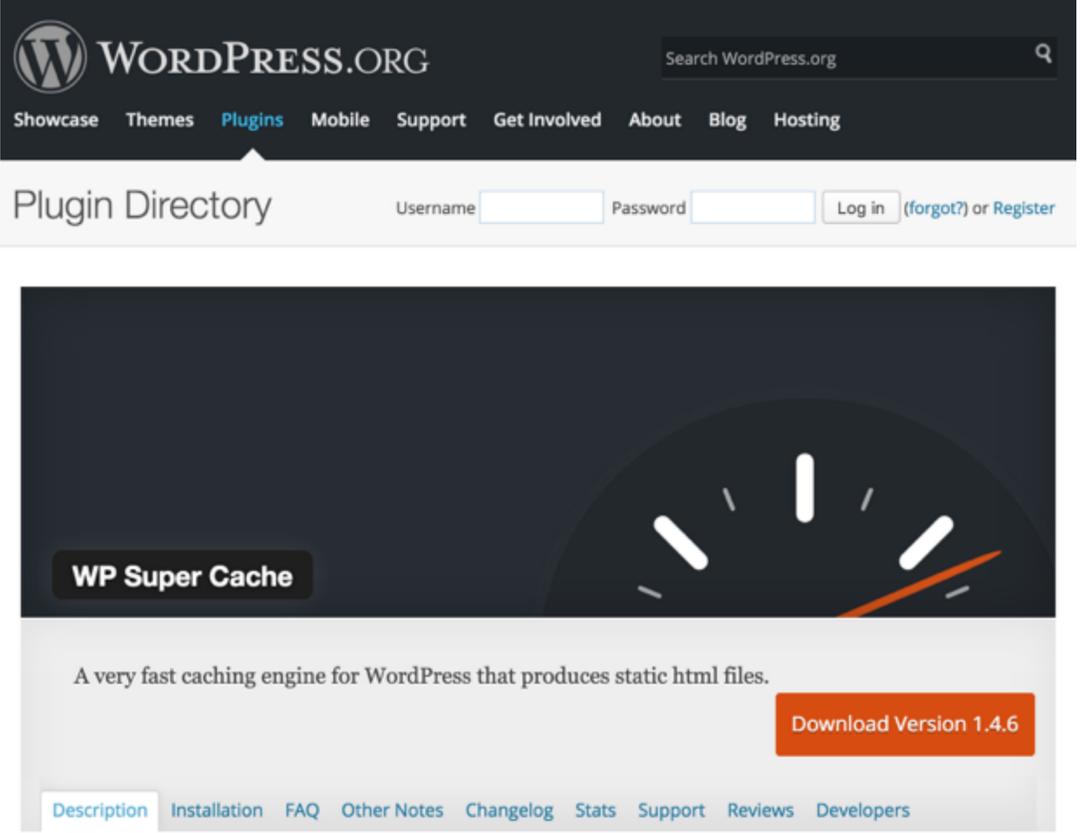
This plugin creates static html files from your dynamic WordPress blog. When a page is rendered, php and mysql are used. Therefore, system needs RAM and CPU. If many visitors come to a site, system uses lots of RAM and CPU so page is rendered so slowly. In this case, you need a cache system not to render page again and again. Cache system generates a static html file and saves. Other users reach to static html page.

Setup of this plugin is so easy. You don't need to modify the .htaccess file. It will be modified automatically.

**Features**

# WP Super Cache

- Nur Page Cache
- CDN
- Läuft überall, da drei verschiedene Arten (Webserver + 2x PHP)



The screenshot shows the WordPress.org Plugin Directory page for WP Super Cache. The page features a dark header with the WordPress logo and 'WORDPRESS.ORG' text, a search bar, and navigation links for Showcase, Themes, Plugins, Mobile, Support, Get Involved, About, Blog, and Hosting. Below the header is a 'Plugin Directory' section with login fields for Username and Password, and links for 'Log in (forgot?) or Register'. The main content area has a dark background with a speedometer graphic and the text 'WP Super Cache'. Below this is a description: 'A very fast caching engine for WordPress that produces static html files.' and a 'Download Version 1.4.6' button. A navigation menu includes links for Description, Installation, FAQ, Other Notes, Changelog, Stats, Support, Reviews, and Developers. The description text explains that the plugin generates static HTML files to reduce server load and lists three user categories that benefit from the cache.

WORDPRESS.ORG

Showcase Themes **Plugins** Mobile Support Get Involved About Blog Hosting

Plugin Directory Username  Password  Log in (forgot?) or Register

**WP Super Cache**

A very fast caching engine for WordPress that produces static html files.

[Download Version 1.4.6](#)

[Description](#) [Installation](#) [FAQ](#) [Other Notes](#) [Changelog](#) [Stats](#) [Support](#) [Reviews](#) [Developers](#)

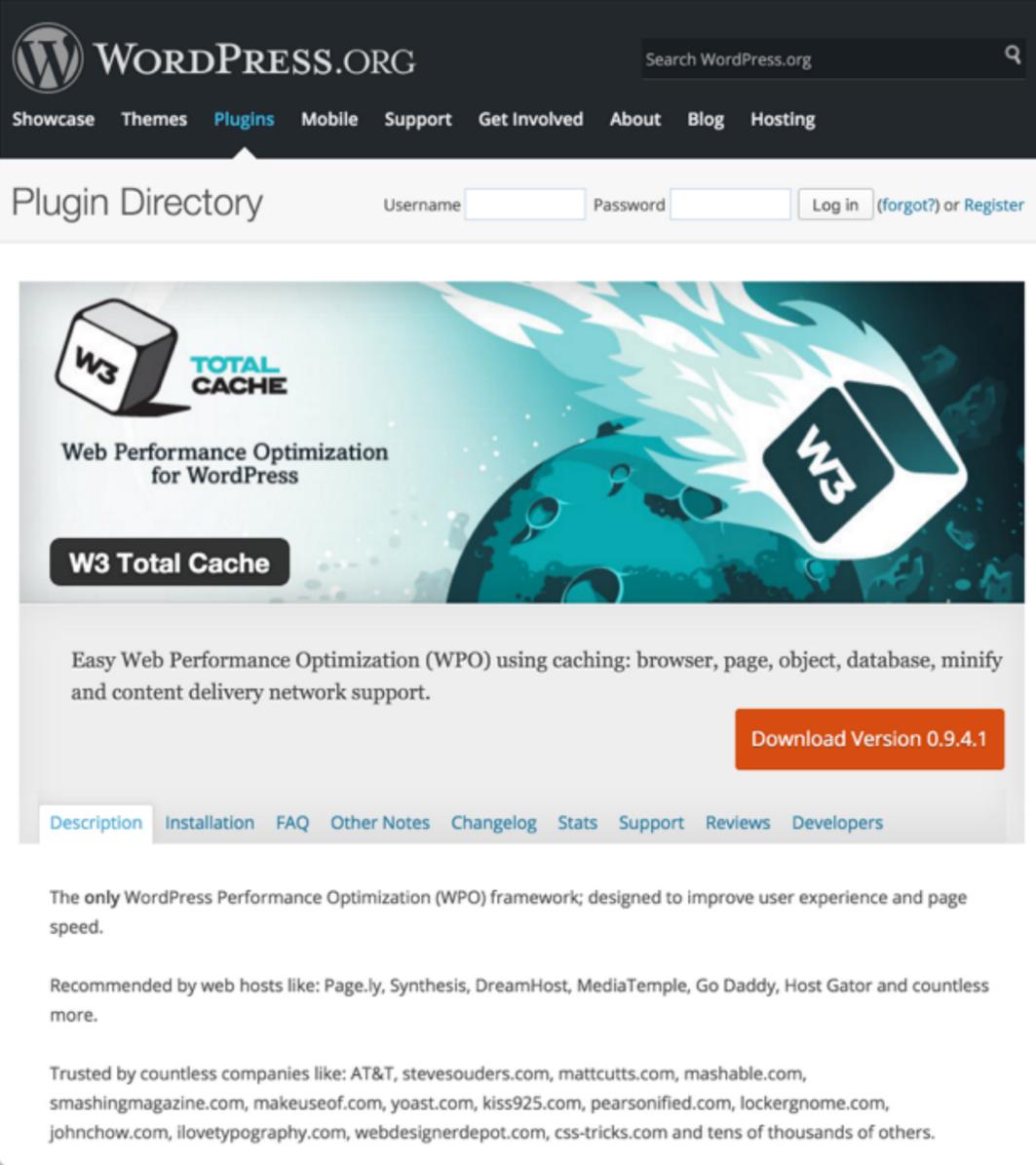
This plugin generates static html files from your dynamic WordPress blog. After a html file is generated your webserver will serve that file instead of processing the comparatively heavier and more expensive WordPress PHP scripts.

The static html files will be served to the vast majority of your users, but because a user's details are displayed in the comment form after they leave a comment those requests are handled by the legacy caching engine. Static files are served to:

1. Users who are not logged in.
2. Users who have not left a comment on your blog.
3. Or users who have not viewed a password protected post.

# W3 Total Cache

- Kann alle Arten von Caching + CDN
- Läuft auf Shared Hosting
- Unterstützt große Anzahl an Cache-Daemons/Arten (File, Memecached, APC, ...)
- Minification
- Komplizierte Konfiguration



The screenshot shows the WordPress.org Plugin Directory page for W3 Total Cache. At the top, there is a navigation bar with the WordPress logo and the text "WORDPRESS.ORG". Below this, there are links for "Showcase", "Themes", "Plugins", "Mobile", "Support", "Get Involved", "About", "Blog", and "Hosting". A search bar is located on the right side of the navigation bar. Below the navigation bar, there is a "Plugin Directory" section with a login form containing fields for "Username" and "Password", and a "Log in" button. Below the login form, there is a large banner for W3 Total Cache. The banner features the W3 Total Cache logo, which consists of a cube with "W3" on it and the text "TOTAL CACHE". Below the logo, the text reads "Web Performance Optimization for WordPress". A "W3 Total Cache" button is also present. Below the banner, there is a description of the plugin: "Easy Web Performance Optimization (WPO) using caching: browser, page, object, database, minify and content delivery network support." A "Download Version 0.9.4.1" button is located on the right side of the description. Below the description, there are links for "Description", "Installation", "FAQ", "Other Notes", "Changelog", "Stats", "Support", "Reviews", and "Developers". At the bottom of the page, there is a paragraph of text: "The only WordPress Performance Optimization (WPO) framework; designed to improve user experience and page speed." Below this, there is another paragraph: "Recommended by web hosts like: Page.ly, Synthesis, DreamHost, MediaTemple, Go Daddy, Host Gator and countless more." At the very bottom, there is a paragraph: "Trusted by countless companies like: AT&T, stevesouders.com, mattcutts.com, mashable.com, smashingmagazine.com, makeuseof.com, yoast.com, kiss925.com, pearsonified.com, lockergnome.com, johnchow.com, ilovetypography.com, webdesignerdepot.com, css-tricks.com and tens of thousands of others."

# WP Rocket

- Premium Plugin (\$39/Jahr für eine Site)
- Browser-Cache, Page-Cache (auch eingeloggte User), CDN
- Cache-Warming
- Bilder optimieren, Minification, Lazy Loading (Bilder, JS)
- Leichte Konfiguration



The screenshot shows the homepage of the WP Rocket website. At the top, there is a navigation bar with the WP Rocket logo and the tagline "your website at lightspeed". The navigation menu includes "Funktionen", "Preise", "Support", "Blog", "Nutzerkonto", and a "Jetzt kaufen" button. The main content area features a dark purple background with a rocket launching. The headline reads "Auf der Suche nach einer schnelleren Webseite?". Below this, it says "Dank unserem Plugin ist WordPress so schnell wie nie zuvor." There are two call-to-action buttons: "Preise ansehen und kaufen" and "Entdecke alle Funktionen.". A counter displays "Bereits 5 6 2 4 1 seiten im orbit". The bottom section is titled "Einfach & Schnell" and contains the text "Verschwende Deine Zeit nicht, sondern profitiere von unserer schnellen und einfachen Einrichtung. Verzweifle nicht und lass WP Rocket Deine Seite auf Überlichtgeschwindigkeit".

# WP Cache Plugins Übersicht

	Browser	Webserver	CDN	Installationen
<b>Zen Cache</b>	Ja	Page Cache	Nein	70.000+
<b>WP Fastest Cache</b>	Nein (aber Minification)	Page Cache (Webserver)	Ja	100.000+
<b>WP Super Cache</b>	Nein	Page Cache (+per User)	Ja	1 Million+
<b>W3 Total Cache</b>	Ja + Minification	Object Cache, DB Cache, Page Cache	Ja	1 Million+
<b>WP Rocket</b>	Ja + Minification, Lazy Loading und mehr	Page Cache (+per User)	Ja	50.000+



# Probleme

- Dynamische Seiten (Random Posts Widget, manche Twitter/Facebook Widgets, Warenkorb)
- Geplante Veröffentlichungen
- Minification/Lazy Loading:  
JavaScript von manchen Plugins/Themes kaputt

# Vertrauen ist gut...

... Kontrolle ist besser!

- Google PageSpeed Insights

<https://developers.google.com/speed/pagespeed/insights/>

Guter erster Anhaltspunkt.

Einfaches Rating-System (0-100 + Ampel)

- WebPagetest

<http://www.webpagetest.org/>

Für Profis und Neugierige.

Viele Metriken („Speed-Index“ die Wichtigste).

Videos, Vorher-Nachher-Vergleiche und *vieles* mehr.

The screenshot shows the Google PageSpeed Insights interface. At the top, it displays the Google Developers logo and the PageSpeed Insights title. The URL being tested is <https://www.saasweb.net/de>. Below the URL, there are tabs for 'Mobil' and 'Desktop', with 'Desktop' selected. The main content area shows a score of '92 / 100' and a summary of recommendations. A large green arrow points from the text 'Einfaches Rating-System (0-100 + Ampel)' to this section.

92 / 100 Übersicht über die Vorschläge

**1** Behebung empfohlen:

- JavaScript- und CSS-Ressourcen, die das Rendering blockieren, in Inhalten "above the fold" (ohne Scrollen sichtbar) beseitigen
- Fehlerbehebung anzeigen

Komprimierung aktivieren

- Fehlerbehebung anzeigen

JavaScript reduzieren

- Fehlerbehebung anzeigen

**7** bestandene Regeln

- Details anzeigen

Sie können optimierte Bild-, JavaScript- und CSS-Ressourcen für diese Seite herunterladen.

\* Die Ergebnisse werden 30 Sekunden lang im Cache gespeichert. Wenn Sie Änderungen an Ihrer Seite vornehmen, warten Sie 30 Sekunden, bevor Sie den Test erneut durchführen.

The screenshot shows the WebPagetest performance results for the same URL. It features a navigation bar with 'HOME', 'TEST RESULT', 'TEST HISTORY', 'FORUMS', 'DOCUMENTATION', and 'ABOUT'. The main heading is 'Web Page Performance Test for <https://www.saasweb.net/de>'. Below this, there is a performance grade 'B A A N/A B X' and a table of metrics. A large green arrow points from the text 'Viele Metriken („Speed-Index“ die Wichtigste)' to the 'Performance Results (Median Run)' table.

Web Page Performance Test for <https://www.saasweb.net/de>

From: Frankfurt, DE - Chrome - Cable  
11.12.2015, 16:54:06

Performance Results (Median Run)

	Load Time	First Byte	Start Render	Speed Index	DOM Elements	Document Complete	Fully Loaded
	Time	Time	Time	Score	Count	Time	Time
First View (Run 1)	2.272s	0.360s	1.393s	1568	250	2.272s	2.533s
Repeat View (Run 1)	1.703s	0.699s	0.999s	1300	200	1.703s	1.703s

Test Results

Run 1:

	Waterfall	Screen Shot	Video
First View (2.272s)			
Repeat View (1.703s)			

# Fragen?

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