Core

Caching Concepts

in WordPress

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Understand caching concepts

Introduce caching concepts

for WordPress



Making a Meal





Making a Meal



Does it Exist

Making a Meal







Making a Meal

Does it Exist





Items at Home

Making a Meal

Recipe



Meal



Items at Store



Meal

Items at Home



Recipe



Caching is a matter of life and death



Serving a Request

Page Cache



Serving a Request



Page Cache



App

Page Cache

Serving a Request

Request Page Object Cache

App

Serving a Request

Page Cache

> Request Page

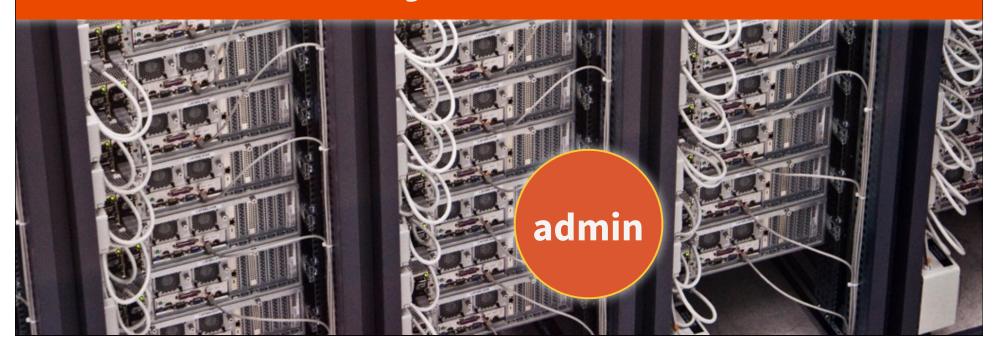


Object Cache





Object Cache





Object Cache: expiration





- Redis
- Couchbase
- Riak
- MongoDB

Memcached





- APC
- MySQL

Generate Items

Object Cache

Serving a Request

App

Page Cache Request Page Serve Page

Generate Items

Serving a Request

Request Page

Object Cache

Page Cache

App



Object Cache: transients



Object Cache: transients

```
$widget = get_transient( 'my-widget');
if ( false === $widget ) {
 $widget = generate_my_widget();
 set_transient( 'my-widget', $widget, 86400 );
echo $widget;
```

Object Cache: transients

- 1. Look for peppers
- 2. If they do not exist, go get them
- 3. Use peppers

codex.wordpress.org/Transients_API



Object Cache: object-cache.php WP_Object_Cache



Object Cache: WP_Object_Cache

```
$widget = wp_cache_get( 'my-widget');
if ( false === $widget ) {
 $widget = generate_my_widget();
 wp_cache_set( 'my-widget', $widget, '',
                86400);
echo $widget;
```

tollmanz.com/grokking-the-wp-object-cache/



Page Cache: advanced-cache.php



Page Cache: advanced-cache.php

```
$page_cache = wp_cache_get( md5( $request ) );
if ( false === $page_cache ) {
  ob_start();
  // generate the page
  $page_cache = ob_get_flush();
  wp_cache_set( md5( $request ), $page_cache,
     echo $page_cache;
```

wordpress.org/plugins/batcache

Page Cache: advanced-cache.php

- 1. Look in the fridge for meal
- 2. If not there, make meal
- 3. Store it in fridge for next time



Use the metaphor

Assume cache failure

Always set expiry values

Know the environment

tollmanz.com/core-caching-concepts-in-wordpress

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