# PSR-6 and PSR-16 in Netgen Stack

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# The need for caching PSR's





## Caching PSR's

- Caching is a common way to improve the performance of any project
- Many libraries roll their own caching libraries
- Developers have to learn multiple systems
- The problem of supporting multiple frameworks (TedivmStashBundle)



# The future looks cached and standardized

- A common interface for caching systems will solve our problems
- Developers can count on the systems working the way they're expecting
- No more a whole assortment of adapters







#### Goal:

 Allow developers to create cache-aware libraries that can be integrated into existing frameworks



#### Interfaces:

- CacheltemInterface
- CacheltemPoolInterface
- CacheException
- InvalidArgumentException







# PSR-16 (simple cache)

#### Goals:

- a simple interface for cache operations
- support for operations on multiple keys
- Providing an adapter that turns a PSR-6 into a PSR-Simple-Cache



# PSR-16 (simple cache)

#### Non-Goals:

 Solving all possible edge cases, PSR-6 does this well already.



# PSR-16 (simple cache)

#### Why bother?

- standardized layer of simplicity on top of PSR-6
- barebones by design
- to be used only by the most simple cases
- layer of convenience on top of PSR-6



# PSR-(6|16) in Symfony





# **Symfony Cache Component**

- PSR-6
- Cache Contracts



## **Symfony Cache - PSR-6**

#### Item:

A single unit of information stored as key/value pair, where the key is the unique identifier of the information and the value is its contents.



## **Symfony Cache - PSR-6**

#### Pool:

A logical repository of cache items. All cache operations are performed through the pool. Applications can define as many pools as needed.



## **Symfony Cache - PSR-6**

#### Adapter:

It implements the actual caching mechanism to store the information in the filesystem, in a database, etc.



# Symfony Cache - available adapters

The following cache adapters are available:

APCu, Array, Chain, Couchbase, Doctrine, Filesystem,

Memcached, PDO & Doctrine DBAL, PHP Array, PHP

Files, Proxy, Redis



# PSR-(6|16) in Netgen Stack





# **PSR-6** demo





# PSR-16 demo





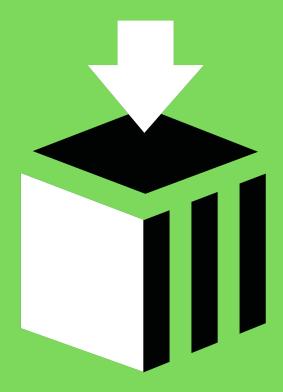
#### Links

- https://github.com/MarioBlazek/caching-psrs-in-netgen-stack
- https://www.php-fig.org/psr/psr-6/
- https://www.php-fig.org/psr/psr-16/
- https://symfony.com/doc/current/components/cache.html
- https://symfony.com/doc/current/components/cache/psr6\_psr16\_adapters.html





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