# PSR-6 and PSR-16 in Netgen Stack

By BM and MB

# 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

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# PSR-6

# PSR-6

**Goal:**

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

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# PSR-6

**Interfaces:**

- **CacheItemInterface**

- **CacheItemPoolInterface**

- **CacheException**

- **InvalidArgumentException**

# PSR-16

# 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**

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# PSR-16 (simple cache)

**Non-Goals:**

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

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# 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**

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# 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.

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# 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.

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# Symfony Cache - PSR-6

**Adapter:**

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

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# 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**

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PSR-6 demo

PSR-16 demo

# Links

- [https://github.com/MarioBlazek/caching-psrs-in-netgen-stack](https://github.com/MarioBlazek/caching-psrs-in-netgen-stack)

- [https://www.php-fig.org/psr/psr-6/](https://www.php-fig.org/psr/psr-6/)

- [https://www.php-fig.org/psr/psr-16/](https://www.php-fig.org/psr/psr-16/)

- [https://symfony.com/doc/current/components/cache.html](https://symfony.com/doc/current/components/cache.html)

- [https://symfony.com/doc/current/components/cache/psr6_psr16_adapters.html](https://symfony.com/doc/current/components/cache/psr6_psr16_adapters.html)

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