

*Faites plus avec moins de code
grâce aux # [Attributs] PHP*



SymfonyLive
PARIS 2024

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@GromNaN



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```
pecl install mongodb
```

```
composer require mongodb/mongodb
```

```
composer require doctrine/mongodb-odm-bundle
```



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[Attribute]

depuis PHP 8.0 – 26 Novembre 2020



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Syntaxe

<<Attribute>>

@@Attribute

[Attribute]



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PHP 7.4

[todo] comment

PHP 8.0

[todo] comment



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Natifs

dans Symfony

| | | |
|---------|----------------------------|------------|
| PHP 8.0 | # [Attribute] | 161 |
| PHP 8.1 | # [ReturnTypeWillChange] | 154 en 5.4 |
| | # [SensitiveParameter] | 312 |
| PHP 8.2 | # [AllowDynamicProperties] | Zéro |
| PHP 8.3 | # [Override] | |
| RFC | # [NotSerializable] | |
| | # [Deprecated] | |



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```
composer require --dev jetbrains/phpstorm-attributes
```

```
# [Jetbrains\PhpStorm\Deprecated(message: ...)]  
# [Jetbrains\PhpStorm\ArrayShape([...])]  
# [Jetbrains\PhpStorm\ObjectShape([...])]  
# [Jetbrains\PhpStorm\Immutable]  
# [Jetbrains\PhpStorm\Pure]  
# [Jetbrains\PhpStorm\ExpectedValues]  
# [Jetbrains\PhpStorm\NoReturn] Supplanté par :never  
# [Jetbrains\PhpStorm\Language('regex')]
```



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```
#[ArrayShape([
    'id' => 'int',
    'name' => 'string',
    'foo' => App\PHP8\Foo::class,
])]  
function user(): array{...}
```

```
$u = user();  
$u;
```



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```
namespace Symfony\Component\Scheduler\Attribute;  
  
#[\Attribute] ← L'attribut qui définit  
une classe d'attribut  
class AsCronTask  
{  
    public function __construct(  
        public readonly string $expression,  
    ) {  
    }  
}
```



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```
use Symfony\Component\Scheduler\Attribute\AsCronTask;

#[AsCronTask('30 12 * * *')]
class SendDailyJokes
{
    public function __invoke()
    {
        // ...
    }
}
```



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```
$reflection = new \ReflectionClass(SendDailyJokes::class);  
  
foreach ($reflection->getAttributes() as $attribute) {  
    $attribute->getName(); // 'AsCronTask'  
    $attribute-> getArguments(); // ['30 12 * * *']  
    $attribute->newInstance(); // new AsCronTask('30 12 * * *')  
}
```



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```
# [AsCronTask(expression: '30 12 * * *') ]  
class SendDailyJokes  
{  
    // ...  
}
```

Symfony Backward Compatibility Promise

Parameter names are only covered by the compatibility promise for constructors of Attribute classes.

Using PHP named arguments for other classes might break your code when upgrading to newer Symfony versions.



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```
# [AsCronTask('30 12 * * *'), AllowDynamicProperties]

class SendDailyJokes
{
    public function __invoke()
    {
        // ...
    }
}
```



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```
# [
    AsCronTask('30 12 * * *'),
    AllowDynamicProperties
]
class SendDailyJokes
{
    public function __invoke()
    {
        // ...
    }
}
```



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```
# [AsCronTask('30 12 * * *')]  
# [AllowDynamicProperties]  
  
class SendDailyJokes  
{  
    public function __invoke()  
    {  
        // ...  
    }  
}
```



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PER Coding Style 2.0

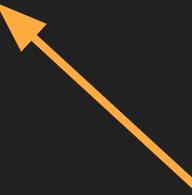
<https://www.php-fig.org/per/coding-style/>



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```
$reflection = new \ReflectionClass(SendDailyJokes::class);  
  
$reflection->getAttributes(AsCronTask::class);
```



*Filtre les attributs
avec ce nom de classe*



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```
namespace Symfony\Component\Scheduler\Attribute;
```

```
# [Attribute] ←  
class AsNoonTask extends AsCronTask  
{
```

Requis pour les classes enfant

```
public function __construct()  
{  
    parent::__construct('30 12 * * *');  
}  
}
```

Partage de configuration



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```
namespace Symfony\Component\Scheduler\Attribute;

#[Attribute(Attribute::TARGET_CLASS)]
class AsNoonTask extends AsCronTask
{
    public function __construct()
    {
        parent::__construct('30 12 * * *');
    }
}
```

*Attribut utilisable sur
les classes uniquement*



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```
use Symfony\Component\Scheduler\Attribute\AsCronTask;

#[AsNoonTask]
class SendDailyJokes
{
    public function __invoke()
    {
        // ...
    }
}
```



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```
$reflection = new \ReflectionClass(SendDailyDadJokes::class);
```

```
$reflection->getAttributes(AsCronTask::class,  
    \ReflectionAttribute::IS_INSTANCEOF);
```



*Filtre sur toutes les classes qui
dérivent de AsCronTask*



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[Entity]

[Document]



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```
use Doctrine\ORM\Mapping as ORM;  
  
#[ORM\Entity]  
#[ORM\Table(table: 'dad_joke')]  
class Joke  
{  
    public function __construct(  
        #[ORM\Id, ORM\GeneratedValue]  
        public ?int $id = null,  
  
        #[ORM\Column]  
        public string $joke = '',  
    ) {}  
}
```

Configuration des propriétés



Type SQL déduit du typage natif



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```
use Doctrine\ODM\MongoDB\Mapping\Annotations as ODM;  
use MongoDB\BSON\ObjectId;
```

```
# [ODM\Document(collection: 'dad_jokes')]
```

```
class Joke
```

```
{
```

```
    public function __construct(
```

```
        #[ODM\Id]
```

```
        public readonly string $id = new ObjectId(),
```

```
        #[ODM\Field]
```

```
        public string $joke = '',
```

```
    ) {}
```

```
}
```

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*Valeur par défaut avec new
(PHP 8.1)*

*Identifiant généré
côté client*



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```
use Doctrine\ODM\MongoDB\Types\Type;  
  
#[ODM\Field(type: Type::DATE_IMMUTABLE)]  
public \DateTimeImmutable $createdAt = new DatePoint(),  
  
#[ODM\Field(type: Type::BINDATA, name: 'body')]  
public string $joke = '',  
  
#[ODM\Field]  
public int $likes = 0,
```



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```
use Symfony\Component\Validator\Constraints as Assert;

#[Assert\DateTime]
public \DateTimeImmutable $createdAt = new DatePoint(),

#[Assert\NotBlank]
public string $joke = '',

#[Assert\PositiveOrZero]
public int $likes = 0,
```



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```
use Symfony\Component\Validator\Constraints as Assert;

#[Assert\DateTime]
#[ODM\Field(type: Type::DATE_IMMUTABLE)]
public \DateTimeImmutable $createdAt = new DatePoint(),

#[Assert\NotBlank]
#[ODM\Field(type: Type::BINDATA, name: 'body')]
public string $joke = '',

#[Assert\PositiveOrZero]
#[ODM\Field]
public int $likes = 0,
```



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```
# [ODM\Field(type: Type::COLLECTION)]
# [Assert\Collection(
    fields: [
        'url' => new Assert\Url(),
        'caption' => new Assert\NotBlank(),
    ]
)]
#[Assert\When(
    expression: 'this.public === true',
    constraints: [
        new Assert\Count(min: 1, max: 10),
    ],
)]
public array $photos = [],
```

Attributs imbriqués

*Condition utilisant
ExpressionLanguage*



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```
# [AsController]
```



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```
App\Controller\  
  resource: '../src/Controller/'  
  public: true  
  tags: [ 'controller.service_arguments' ]  
  calls:  
    - [ setContainer, [ '@abstract_controller.locator' ] ]  
  
abstract_controller.locator:  
  class: Symfony\Component\DependencyInjection\ServiceLocator  
  arguments:  
    - router: '@router'  
      request_stack: '@request_stack'  
    ...
```



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```
App\Controller\  
  resource: '../src/Controller/'  
  public: true  
  tags: [ 'controller.service_arguments' ]  
  autowire: true  
  autoconfigure: true
```



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Active l'autoconfiguration

```
# [AsController]    ↗
class HomeController
{
    # [Route('/', name: 'home')]
    # [Template('home/index.html.twig')]
    public function __invoke(): array
    {
        return [];
    }
}
```



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[Route]



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➤ bin/console debug:router

| Name | Method | Scheme | Host | Path |
|----------------------|------------|--------|------|---|
| _logout_main | ANY | ANY | ANY | /logout |
| ux_live_component | ANY | ANY | ANY | /{_locale}/_components/{_live_component}/{_live_action} |
| homepage | ANY | ANY | ANY | /{_locale} |
| admin_index | GET | ANY | ANY | /{_locale}/admin/post/ |
| admin_post_index | GET | ANY | ANY | /{_locale}/admin/post/ |
| admin_post_new | GET POST | ANY | ANY | /{_locale}/admin/post/new |
| admin_post_show | GET | ANY | ANY | /{_locale}/admin/post/{id} |
| admin_post_edit | GET POST | ANY | ANY | /{_locale}/admin/post/{id}/edit |
| admin_post_delete | POST | ANY | ANY | /{_locale}/admin/post/{id}/delete |
| blog_index | GET | ANY | ANY | /{_locale}/blog/ |
| blog_rss | GET | ANY | ANY | /{_locale}/blog/rss.xml |
| blog_index_paginated | GET | ANY | ANY | /{_locale}/blog/page/{page} |
| blog_post | GET | ANY | ANY | /{_locale}/blog/posts/{slug} |
| comment_new | POST | ANY | ANY | /{_locale}/blog/comment/{postSlug}/new |
| blog_search | GET | ANY | ANY | /{_locale}/blog/search |
| security_login | ANY | ANY | ANY | /{_locale}/login |
| user_edit | GET POST | ANY | ANY | /{_locale}/profile/edit |
| user_change_password | GET POST | ANY | ANY | /{_locale}/profile/change-password |



SensioFrameworkExtraBundle c'est fini !!!

| | |
|-----------------|--|
| @Route | Symfony\Component\Routing\Attribute\Route |
| @Template | Symfony\Bridge\Twig\Attribute\Template |
| @Cache | Symfony\Component\HttpKernel\Attribute\Cache |
| @IsGranted | Symfony\Component\Security\Http\Attribute\IsGranted |
| @ParamConverter | Symfony\Component\HttpKernel\Attribute\ValueResolver |



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```
# [ValueResolver]
```



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[AsDecorator]



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```
# [AsDecorator(decorates: 'router')]  
class DecoratedRouter implements RouterInterface  
{  
    public function __construct(  
        private RouterInterface $router,  
        private LoggerInterface $logger,  
    ) {}  
  
    public function generate(string $name, array $parameters)  
    {  
        $this->logger->info('Generate {name}', ['name' => $name]);  
  
        return $this->router->generate($name, $parameters);  
    }  
}
```

Service décoré



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```
# [AEventListener]
```



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```
class AppListener implements EventSubscriberInterface
{
    public static function getSubscribedEvents(): array
    {
        // ???
    }

    public function onRequest(RequestEvent $event): void
    {
        // ...
    }
}
```



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```
class AppListener implements EventSubscriberInterface
{
    public static function getSubscribedEvents(): array
    {
        return [
            KernelEvents::REQUEST => ['onRequest', 10],
        ];
    }

    public function onRequest(RequestEvent $event): void
    {
        // ...
    }
}
```



```
class AppListener
{
    #[AsEventListener(KernelEvents::REQUEST, 10)]
    public function onRequest(RequestEvent $event): void
    {
        // ...
    }
}
```



```
class AppListener
```

```
{
```

```
# [AsEventListener(priority: 10)]
```

*Named Argument
pour omettre \$event*

```
public function onRequest(RequestEvent $event): void
```

```
{
```

```
// ...
```

```
}
```

```
}
```

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*Permet de déduire le nom
de l'événement écouté*



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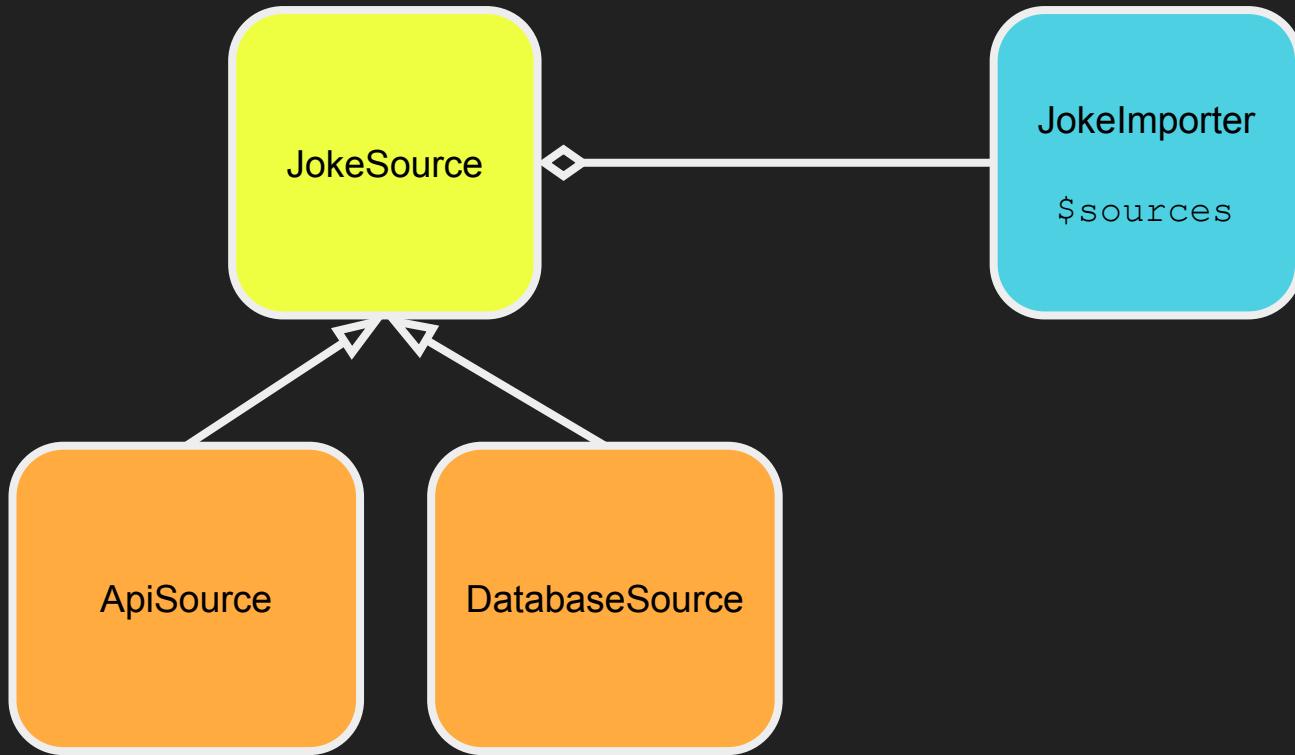
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[Autoconfigure]



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```
interface JokeSource
{
    public function getJokes(): array;
}
```



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```
class ApiJokeSource implements JokeSource
{
    public function getJokes(): array
    {
        return [ /* ... */ ];
    }
}
```



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```
class JokeImporter
{
    /** @param iterable<JokeSource> $sources */
    public function __construct(
        private iterable $sources
    ) { }

    public function import()
    {
        foreach ($this->sources as $source) {
            $jokes = $source->getJokes();
        }
    }
}
```

@GromNaN



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```
# [Autoconfigure(tags: [ ['app.joke_source' => [] ] ]) ]
interface JokeSource
{
    public function getJokes(): array;
}
```



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```
# [AutoconfigureTag('app.joke_source')]
```

```
interface JokeSource
```

```
{
```

```
    public function getJokes(): array;
```

```
}
```



Etend et spécialise
[Autoconfigure]



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```
# [AutoconfigureTag(self::TAG) ]  
interface JokeSource  
{  
    public const TAG = 'app.joke_source';  
  
    public function getJokes(): array;  
}
```



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```
# [AutoconfigureTag(static::TAG) ]  
interface JokeSource  
{  
    public const TAG = 'app.joke_source';  
  
    public function getJokes(): array;  
}
```

Compile Error: **static::class** cannot be used
for compile-time class name resolution



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```
# [AutoconfigureTag(self::class)]  
interface JokeSource  
{  
  
    public function getJokes(): array;  
}
```



*Le nom de l'interface
comme nom de tag*



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```
# [AutoconfigureTag]
interface JokeSource
{
    public function getJokes(): array;
}
```



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```
class JokeImporter
{
    /** @param iterable<JokeSource> $sources */
    public function __construct(
        #[AutowireIterator(JokeSource::class)]
        private iterable $jokeSources,
    ) { }

    // ...
}
```

Nom du tag



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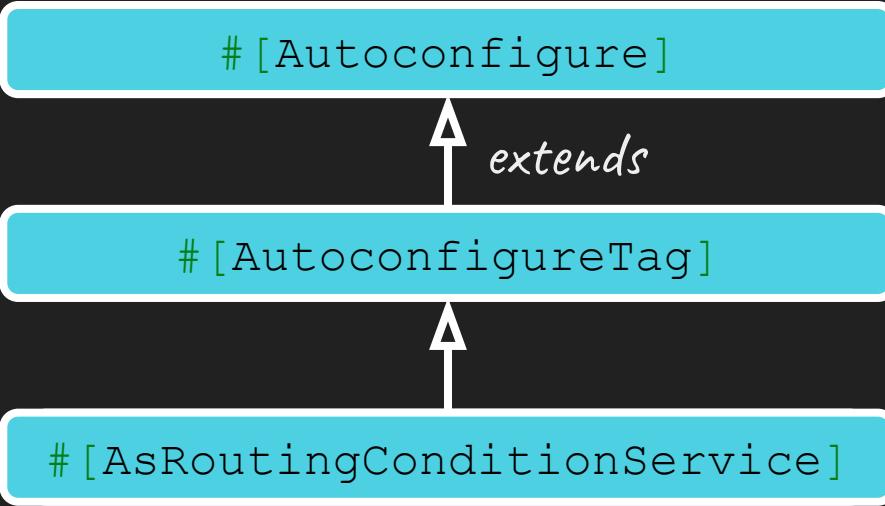
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*Pour maîtriser l'ordre
dans l'itérateur*

```
# [AsTaggedItem(priority: 10)] ←
class ApiJokeSource implements JokeSource
{
    public function getJokes(): array
    {
        return [ /* ... */ ];
    }
}
```



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```
# [Autoconfigure]
```



```
# [YourAutoconfigureAttribute]
```



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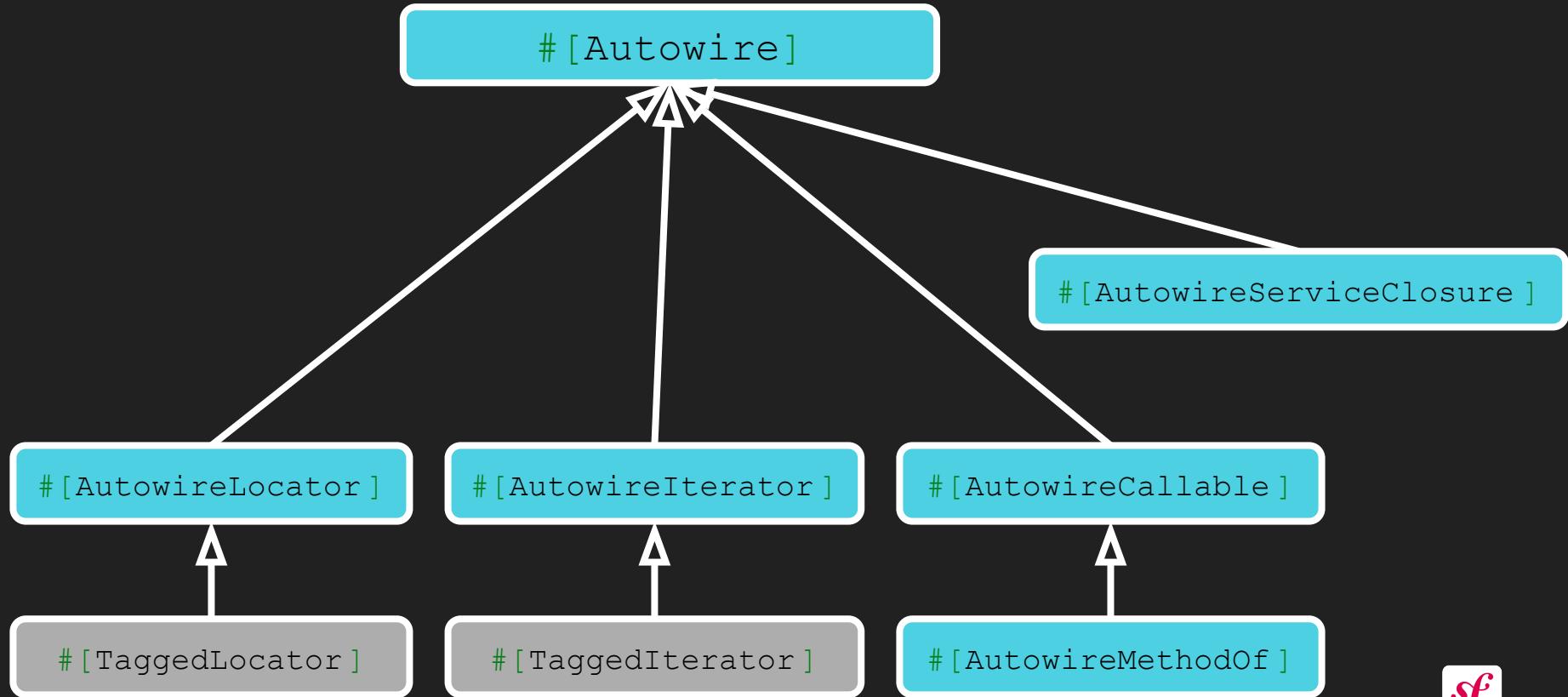
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[Autowire]



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```
# [AsController]
class IndexController
{
    public function __construct(
        private JokeRepository $jokeRepository
    ) { }

    #[Route('/jokes/', name: 'joke_index')]
    public function __invoke(): array
    {
        return [
            'jokes' => $this->repository->findAll(),
        ];
    }
}
```

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```
# [AsController]
class IndexController
{
    public function __construct(
        /** @see JokeRepository::findAll() */
        #[AutowireCallable(
            service: JokeRepository::class,
            method: 'findAll'
        )]
        private \Closure $findAllJokes,
    ) { }

    // ...
}
```



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```
# [AsController]
class IndexController
{
    // ...

#[Route('/jokes/', name: 'joke_index')]
public function __invoke(): array
{
    return [
        'jokes' => ($this->findAllJokes)(),
    ];
}
```



Appel de la Closure



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```
# [AsController]
class IndexController
{
    public function __construct(
        /** @see JokeRepository::findAll() */
        #[AutowireMethodOf(
            service: JokeRepository::class
        )]
        private \Closure $findAll,
    ) { }

    // ...
}
```



*Nom de la méthode
à injecter*



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```
# [AsController]
class IndexController
{
    # [Route('/jokes/')]
    # [Template(...)]
    public function __invoke(
        #[AutowireMethodOf(service: JokeRepository::class)]
        \Closure $findAll,
    ): array
    {
        return [
            'jokes' => ($findAll)(),
        ];
    }
}
```

*Autowire en paramètre
de contrôleur*



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```
class IndexControllerTest extends TestCase
{
    public function testInvoke()
    {
        $findAll = fn () => ['joke1', 'joke2'];

        $controller = new IndexController();

        $this->assertSame(
            ['jokes' => ['joke1', 'joke2']],
            $controller($findAll)
        );
    }
}
```

Simple Closure de test

*Invocation directe
du contrôleur*



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[Target]



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```
# config/packages/framework.yaml
framework:
    http_client:
        scoped_clients:
            githubApi: ← Nom de client
                scope: 'https://api.github.com'
                headers:
                    Accept: 'application/vnd.github.v3+json'
                    # ...
```



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```
use Symfony\Component\DependencyInjection\Attribute\Target;
use Symfony\Contracts\HttpClient\HttpClientInterface;

class GitHubDownloader
{
    public function __construct(
        #[Target('githubApi')] Nom de client
        private HttpClientInterface $httpClient
    ) { }

}
```



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[Test]

à partir de PHPUnit 10



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```
/**  
 * @test                                #[Test]  
 * @group slow                            #[Group('slow')]  
 * @dataProvider method                  #[DataProvider('method')]  
 * @testWith [0, 1]                        #[TestWith([0, 1])]  
 *          [2, 3]                        #[TestWith([2, 3])]  
 * @testdox                             #[Testdox]  
 */
```



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```
/**  
 * @testWith [0, 0, 0]  
 *           [0, 1, 1]  
 *           [-1, 0, 1]  
 * @testdox Subtracting $b from $a results is $expected  
 * @test  
 */  
public function subtract(int $expected, int $a, int $b)  
{  
    $this->assertSame($expected, $a - $b);  
}
```



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```
# [
    TestWith([0, 0, 0]),
    TestWith([0, 1, 1]),
    TestWith([-1, 0, 1]),
    TestDox('Substracting $b from $a results is $expected'),
    Test
]
public function subtract(int $expected, int $a, int $b)
{
    $this->assertSame($expected, $a - $b);
}
```



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```
# [TestWith([0, 0, 0])]  
# [TestWith([0, 1, 1])]  
# [TestWith([-1, 0, 1])]  
#[TestDox('Substracting $b from $a results is $expected')]  
#[Test]
```

```
public function subtract(int $expected, int $a, int $b)  
{  
    $this->assertSame($expected, $a - $b);  
}
```



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```
namespace PHPUnit\Framework\Attributes;

/**
 * @no-named-arguments Parameter names are not covered
 * by the backward compatibility promise for PHPUnit
 */
#[Attribute(Attribute::TARGET_CLASS|Attribute::TARGET_METHOD)]
final readonly class TestDox
{
    public function __construct(private string $text) { }
}
```



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```
/**  
 * @before                         # [Before]  
 * @after                          # [After]  
 * @beforeClass                     # [BeforeClass]  
 * @afterClass                      # [AfterClass]  
 */
```



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```
# [AstTwigFunction]
```



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```
class AppExtension extends \Twig\Extension\AbstractExtension
{
    public function reverse(string $value): string
    {
        return strrev($value);
    }

    public function getFunctions(): array
    {
        return [
            new TwigFunction('reverse', $this->reverse(...)),
        ];
    }
}
```



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```
class AppExtension
{
    #[AsTwigFunction('reverse')]
    public function reverse(string $value): string
    {
        return strrev($value);
    }
}
```



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composer require **zenstruck/twig-service-bundle**



Ce bundle vous est offert
par Kevin Bond (@kbond)



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Create attributes AsTwigFilter, AsTwigFunction and AsTwigTest to ease extension development #3916

Edit < Code

Open

GromNaN wants to merge 16 commits into [twigphp:3.x](#) from [GromNaN:attribute](#)

Conversation 40

Commits 16

Checks 66

Files changed 10

+769 -1



GromNaN commented on Nov 26, 2023 · edited

Contributor

One drawback to writing extensions at present is that the declaration of functions/filters/tests is not directly adjacent to the methods. It's worse for runtime extensions because they need to be in 2 different classes. See [SerializerExtension](#) and [SerializerRuntime](#) as an example.

By using attributes for filters, functions and tests definition, we can make writing extensions more expressive, and use reflection to detect particular options (`needs_environment`, `needs_context`, `is_variadic`).

Example if we implemented the `serialize` filter:

[Twig/extrai/intl-extra/IntlExtension.php](#)
Lines 392 to 395 in aeccc9a

```
392     public function formatDate(Environment $env, $date, ?string $dateFormat = 'medium', string
393         $pattern = '', $timezone = null, string $calendar = 'gregorian', string $locale = null): string
394     {
395         return $this->formatDateTime($env, $date, $dateFormat, 'none', $pattern, $timezone, $calendar,
396             $locale);
397     }
```

By using the `AsTwigFilter` attribute, it is not necessary to create the `getFilters()` method. The `needs_environment` option is detected from method signature. The name is still required as the method naming convention (camelCase) doesn't match with Twig naming convention (snake_case).

```
use Twig\Attribute\AsTwigFilter;
use Twig\Attribute\AsTwigExtension;

#[AsTwigExtension]
class IntlExtension
{
    #[AsTwigFilter(name: 'format_date')]
    public function formatDate(Environment $env, $date, ?string $dateFormat = 'medium', string $pattern = '',
        $timezone = null, string $calendar = 'gregorian', string $locale = null)
    {
        return $this->formatDateTime($env, $date, $dateFormat, 'none', $pattern, $timezone, $calendar, $locale);
    }
}
```

This approach does not totally replace the current definition of extensions, which is still necessary for advanced needs. It does, however, make for more pleasant reading and writing.

This makes writing lazy-loaded runtime extension the easiest way to create Twig extension in Symfony:
[symfony/symfony#52748](#)

Reviewers

nicolas-grekas



smmandre



stof



derrabus



Still in progress? Convert to draft

Assignees

No one assigned

Labels

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

Notifications

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6 participants



Allow edits and access to secrets by maintainers



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Rénover

les `/** @annotation */`
en `# [Attribute]`
avec **rector**



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Où trouver cette présentation



Jérôme Tamarelle

@GromNaN



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