

Empowering developers to easily upgrade projects with Ibexa Rector

ANDREW LONGOSZ





About me



Andrew Longosz

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- Senior Software Engineer at Ibexa's core development PHP Team
- ► With the Company since 2016
- Areas of interest: databases, public APIs, product maintenance & releases





Agenda

What is Ibexa Rector?

Installing the package

Configuring

Running Rectors

Writing custom rules

Contributing to ibexa/rector



What is Ibexa Rector?

- Automated refactoring tool
- Built on top of RectorPHP: https://github.com/rectorphp/rector
- Uses Nikita Popov's PHP Parser: https://github.com/nikic/PHP-Parser
- ► Aimed for easier upgrade of projects' codebase at scale

```
<?php declare(strict_types=1);</pre>
  final class Foo
       private int $bar;
       public function __construct()
           $this->bar = 1000;
10
11 }
```

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 3 final class Foo
       private $bar;
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           $this->bar = 1000;
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```



Installing Ibexa Rector



composer require --dev ibexa/rector:4.6.x-dev



composer require --dev ibexa/rector:5.0.x-dev

Configuring

- Configuration available as a flex recipe
- rector.php file in a project directory
- Requires PHP 8.3

```
rector.php
<?php declare(strict_types=1);</pre>
use Ibexa\Contracts\Rector\Sets\IbexaSetList;
use Rector\Config\RectorConfig;
return RectorConfig::configure()
   ->withPaths(
           __DIR__ . '/src',
           __DIR__ . '/tests',
   ->withSets(
           IbexaSetList::IBEXA_50->value,
```

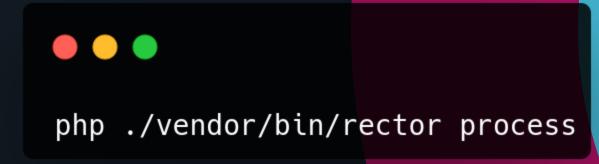
Adding Symfony set lists

rector/rector-symfony package

```
rector.php
<?php declare(strict_types=1);</pre>
use Ibexa\Contracts\Rector\Sets\IbexaSetList;
use Rector\Config\RectorConfig;
use Rector\Symfony\Set\SymfonySetList;
return RectorConfig::configure()
   ->withSets(
           IbexaSetList::IBEXA_50->value,
           SymfonySetList::SYMFONY_54,
```

Running Rector

Assuming you have rector.php file in your project directory, run there:

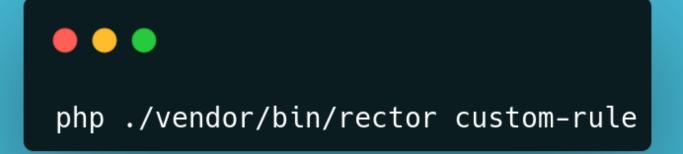


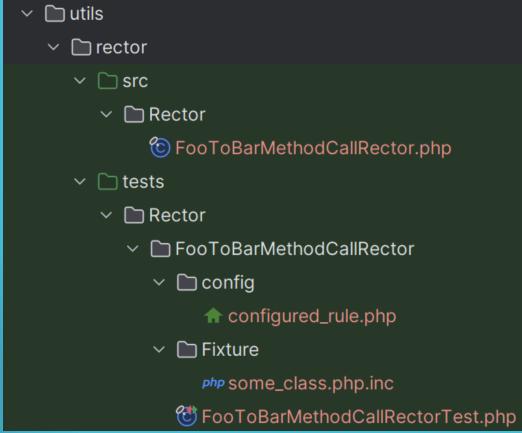
Using Rector Live demo time

Creating custom rules

Project-specific rules

- Use Rector's built-in, interactive, command for any project-specific use case
- Generate directory structure:
- Implement rule's Rector inside generated class
- Add test coverage using generated structure & test class





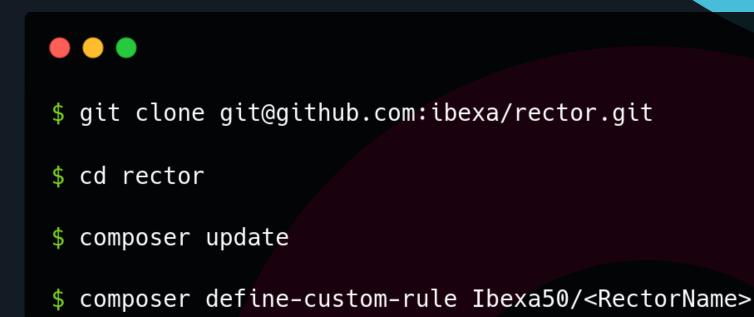


Creating custom Rector rules Live demo time

Contributing to Ibexa Rector

Ibexa-specific rules

- Clone ibexa/rector package
- Generate file & directory structure



Contributing to Ibexa Rector

Directory structure

- ► Write rule, write tests
- Create a Pull Request to ibexa/rector



✓ ☐ tests → □ lib Composer Composer → □ Rule ∨ □ Ibexa50 ∨ ☐ MagicPropertyToStrictGetterRector → □ config n configured_rule.php → Fixture php some_class.php.inc MagicPropertyToStrictGetterRectorTest.php

Contributing to Ibexa Rector Live demo time

Closing words

- ► Ibexa Rector is an Open Source package, supported for versions 4.6 LTS, 5.0, and beyond
- It speeds up project refactoring by automating it
- It requires PHP 8.3
- Its capabilities will grow given real use cases discovered



Get Ibexa Rector:



Thank you!

Slide deck & examples:

