

Empowering developers to easily upgrade projects with Ibexa Rector

ANDREW LONGOSZ





About me



Andrew Longosz

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- From Katowice, Poland
- Senior Software Engineer at Ibexa's core development PHP Team
- ► With the Company since 2016
- Areas of interest: databases, public APIs, product maintenance & releases
- After work: addicted to teamwork cooperation video games





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

```
1 <?php declare(strict_types=1);</pre>
 3 final class Foo
       /** @var int */
       private $bar;
       public function __construct()
10
           $this->bar = 1000;
11
12 }
```

```
1 <?php declare(strict_types=1);</pre>
 3 final class Foo
 4 {
       private int $bar;
       public function __construct()
           $this->bar = 1000;
10
11 }
```



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

```
1 <?php declare(strict_types=1);</pre>
 3 use Ibexa\Contracts\Rector\Sets\IbexaSetList;
 4 use Rector\Config\RectorConfig;
 5
 6 return RectorConfig::configure()
       ->withPaths(
 8
               __DIR__ . '/src'
10
11
       ->withSets(
12
13
               IbexaSetList::IBEXA_46->value,
14
15
16);
```

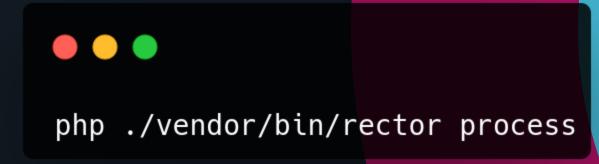
Adding Symfony set lists

rector/rector-symfony package

```
1 <?php declare(strict_types=1);</pre>
  3 use Ibexa\Contracts\Rector\Sets\IbexaSetList;
 4 use Rector\Config\RectorConfig;
  5 use Rector\Symfony\Set\SymfonySetList;
  7 return RectorConfig::configure()
        ->withPaths(
 10
                __DIR__ . '/src'
11
12
 13
        ->withSets(
 14
15
                IbexaSetList::IBEXA_46->value,
                SymfonySetList::SYMFONY_54,
16
17
18);
```

Running Rector

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



Using Rector Live demo time

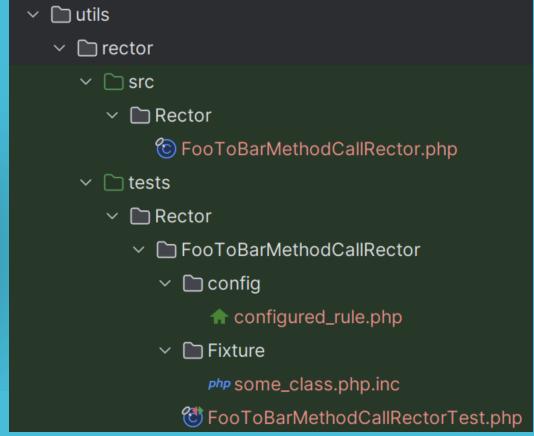
Creating custom rules

Project-specific rules

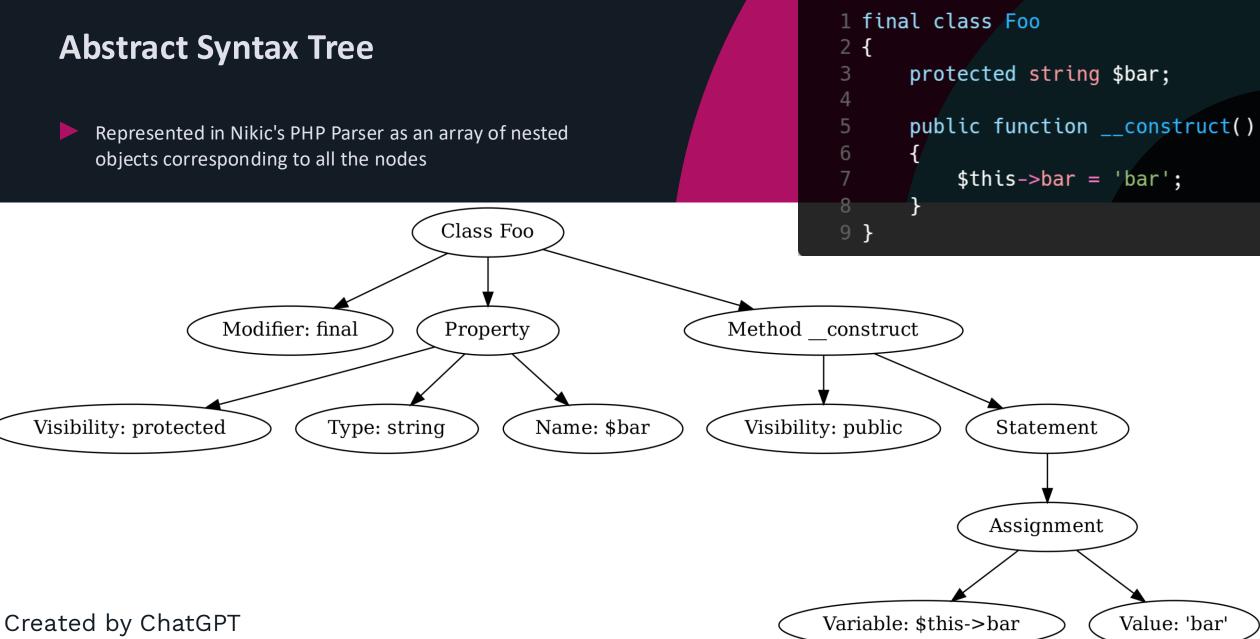
- Use Rector's built-in, interactive, command for any project-specific use case
- Generate directory structure:



- Implement rule's Rector inside generated class
- Add test coverage using generated structure & test class







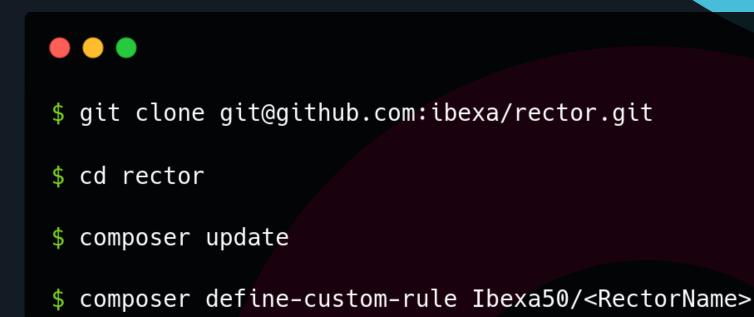
Created by ChatGPT

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



→ □ 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 LTS, and beyond
- It speeds up project refactoring by automating it
- It requires PHP 8.3
- Its capabilities will grow given real use cases discovered

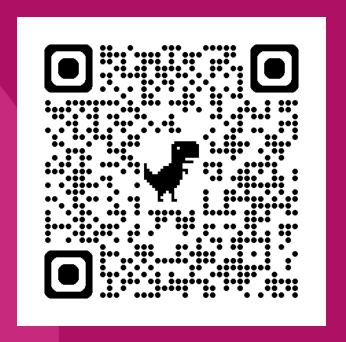


Get Ibexa Rector:



Thank you!

Slide deck & examples:



https://github.com/ibexa/rector

https://github.com/ibexa/summit-2025-rector