



LONGHORN PHP CONFERENCE

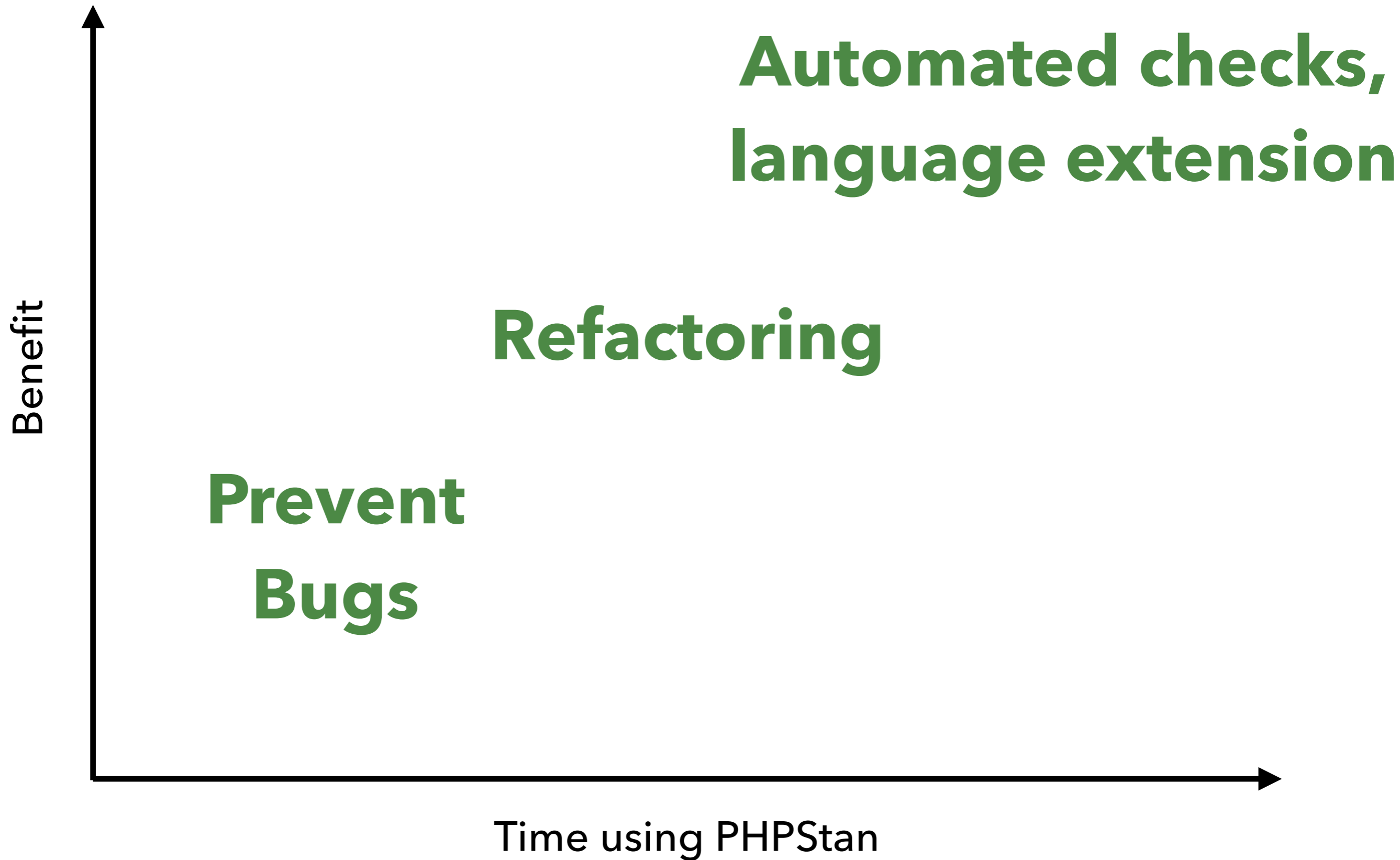
Austin, TX

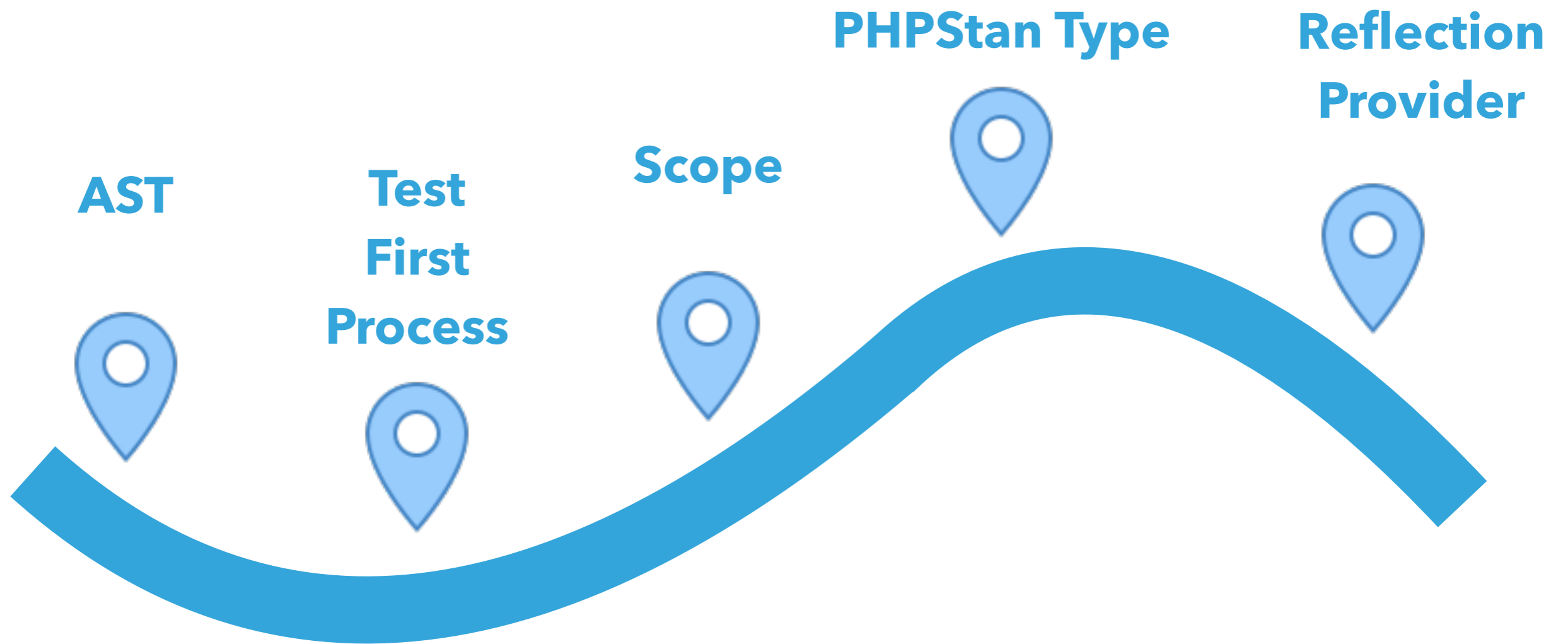
Nov 3rd - 5th, 2022

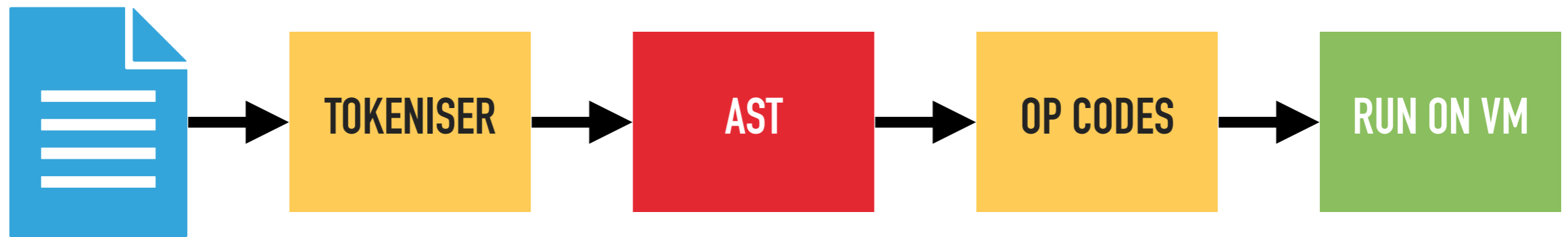


Dave Liddament

github.com/DaveLiddament/phpstan-rules-tutorial

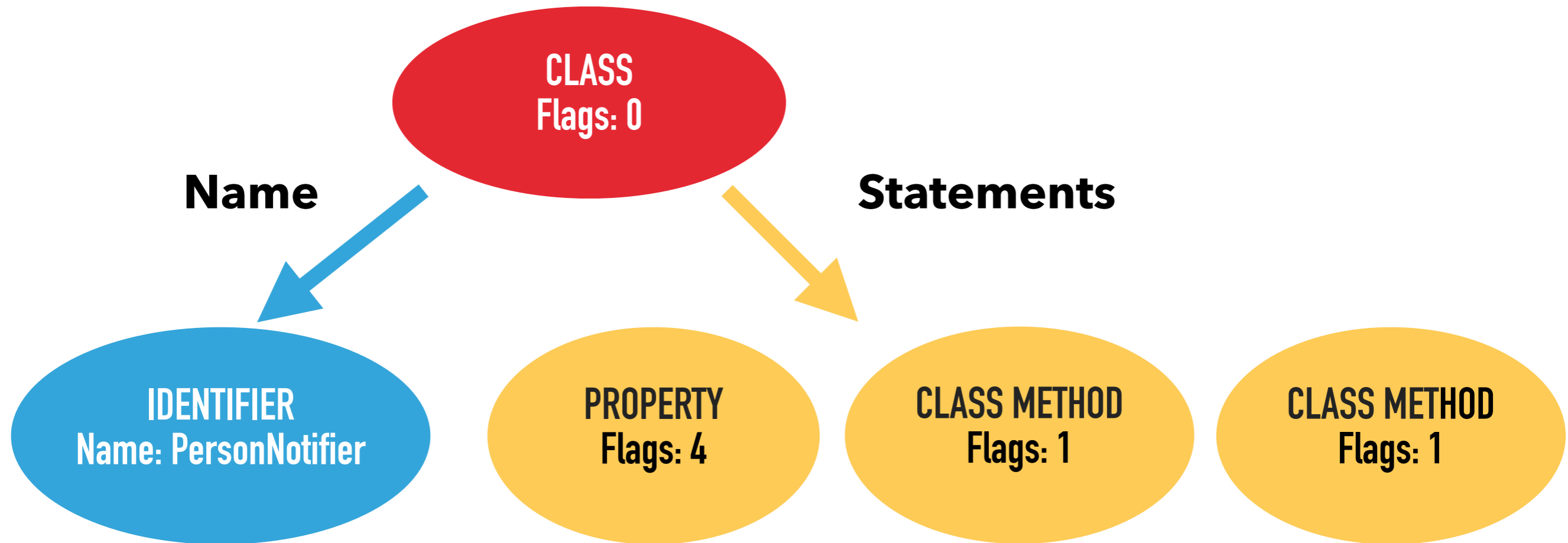




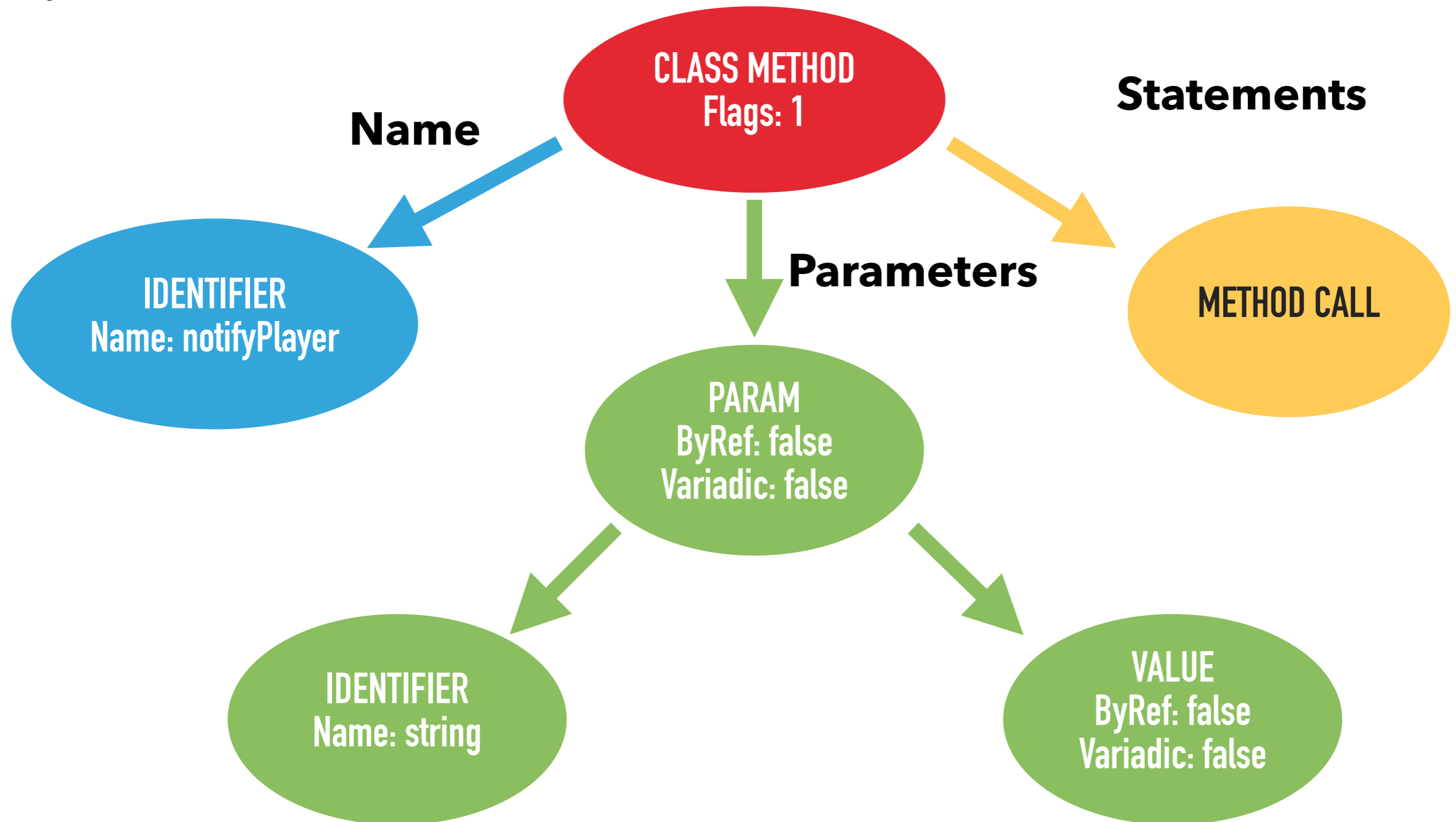


```
class PersonNotifier
```

```
{  
  private TextMessageSender $sender;  
  public function __construct() {...}  
  public function notifyPlayer() {...}  
}
```



```
public function notifyPlayer (string $msg)
{
    $this->sender->sendMessage ($msg) ;
}
```



https://github.com/nikic/PHP-Parser

nikic / PHP-Parser Public

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Code Issues 44 Pull requests 9 Actions Wiki Security Insights

master 9 branches 80 tags

Go to file Add file Code

nikic Bail out on PHP tags in removed code ... b0edd4c 2 hours ago 1,526 commits

.github/workflows	Test PHP 8.2 in CI	3 days ago
bin	Add --version flag to php-parse	17 days ago
doc	Fix pretty printing example	17 days ago
grammar	Support readonly before DNF type	3 days ago
lib/PhpParser	Bail out on PHP tags in removed code	2 hours ago
test	Bail out on PHP tags in removed code	2 hours ago
test_old	Avoid repeatedly downloading archive in run-php-src.sh	2 months ago
tools	Add tools/ directory	10 days ago
.editorconfig	[PHP 8.1] Add support for enums (#758)	17 months ago
.gitattributes	Add CONTRIBUTING.md	23 days ago
.gitignore	gitignore: add phpunit test cache	3 years ago
.php-cs-fixer.dist.php	Also format the grammar directory	23 days ago
CHANGELOG.md	Release PHP-Parser 5.0.0-alpha1	17 days ago
CONTRIBUTING.md	Add CONTRIBUTING.md	23 days ago
LICENSE	Corrected license text	2 years ago
README.md	Partial documentation update	17 days ago
UPGRADE-1.0.md	Fix typos	8 years ago

About

A PHP parser written in PHP

php parser static-analysis ast

Readme

BSD-3-Clause license

15.7k stars

232 watching

891 forks

Releases 76

PHP-Parser 4.15.1 Latest 18 days ago

+ 75 releases

Packages

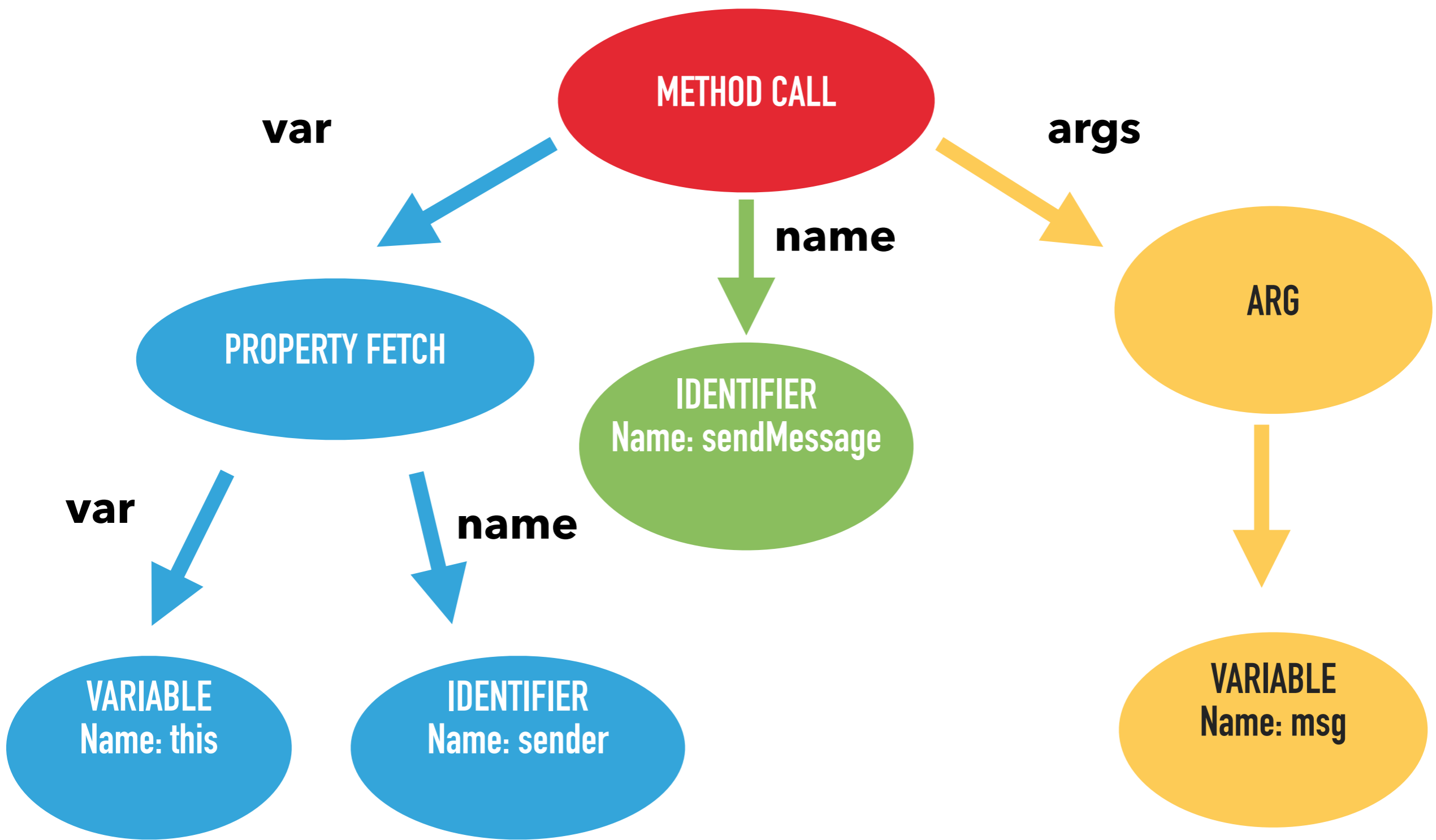
No packages published

Used by 1.5m

+ 1,486,143

Contributors 123

```
$this->sender -> sendMessage ($msg) ;
```




```
class MethodCall extends \PhpParser\Node\Expr\CallLike
{
```

```
/** @var Expr Variable holding object */
public $var;
```

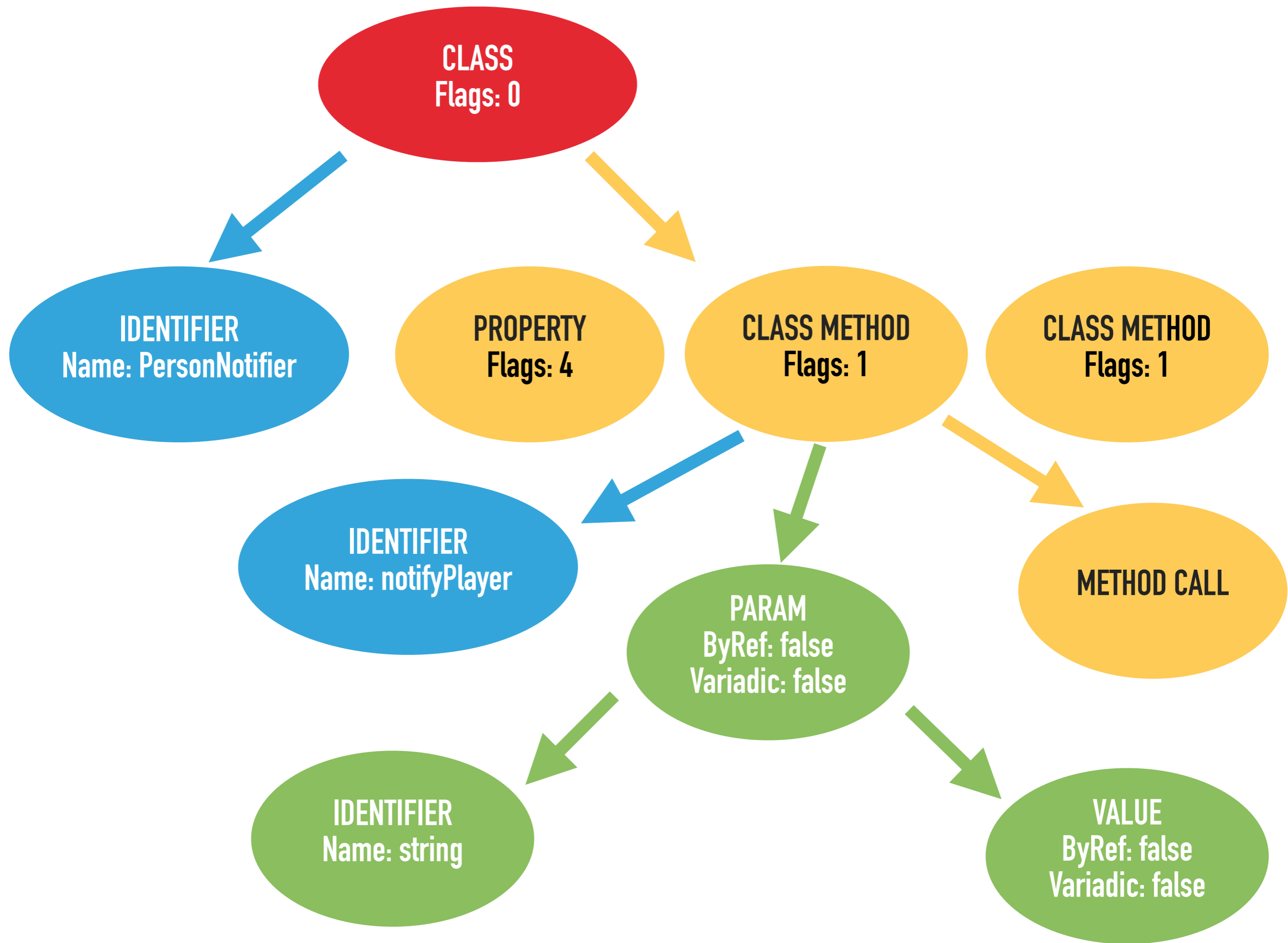
```
/** @var Identifier|Expr Method name */
public $name;
```

```
/** @var array<Arg|VariadicPlaceholder> Arguments */
public $args;
```

```
// Rest of class ...
```

```
$this->sender -> sendMessage ($msg);
```

- ▶ PHP code can be represented by an AST
- ▶ Different types of Node
- ▶ Nodes contain information
- ▶ Each type of node has different information



```
interface Rule
{

    public function getNodeTypes() : string;

    /**
     * @return (string|RuleError)[] errors
     */
    public function processNode(
        \PhpParser\Node $node,
        \PHPStan\Analyser\Scope $scope
) : array;

}
```

```
$scope->getType(  
    Expr $expression,  
) : PHPStan\Type\Type
```

```
function takesValue(mixed $value): void
{
    process($value);    PHPStan\Type\MixedType

    if (!is_bool($value)) return;

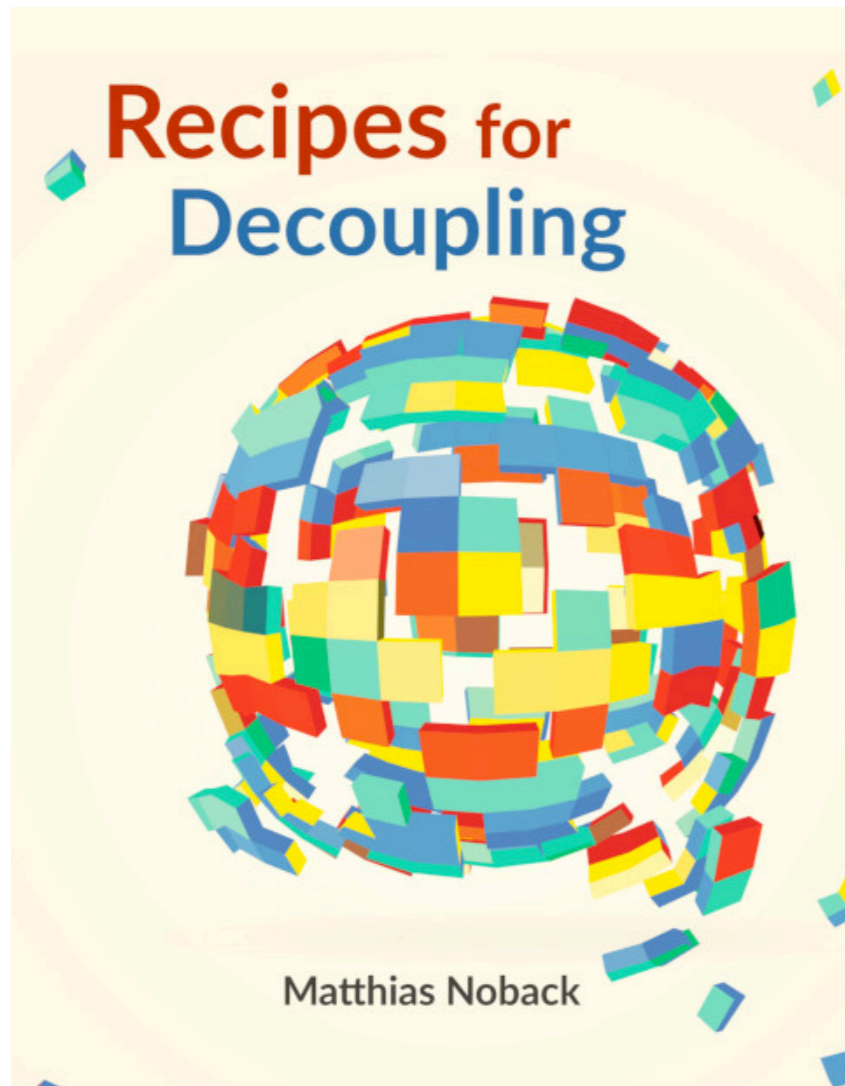
    process($value);    PHPStan\Type\BooleanType

    if ($value === false) return;

    process($value);    PHPStan\Type\ConstantBooleanType
}
```

Further information

<https://phpstan.org/developing-extensions/rules>

This is a screenshot of a YouTube video player. The video title is 'PHP UK Conference 2018 - James Titcumb - Climbing the Abstract Syntax Tree'. The video content shows a presentation slide titled 'The PHP Parser' with the code `zend_language_parser.y` highlighted. The slide also features a red play button icon. In the bottom right corner of the video frame, the name 'James Titcumb' and the title 'Climbing the Abstract Syntax Tree' are displayed. The video player interface includes a 'Watch later' button and a 'Share' button in the top right corner, and a 'Watch on YouTube' button in the bottom left corner.