

EXPAND YOUR CI BEYOND BASIC TESTS

WELCOME

WHOAMI

- Tobias van Beek
- Married and father of a daughter
- Senior Software developer NFO
- Living in Eindhoven
- Meetup co-organizer
- Open Source in spare time
- Lego
- Visit tjvb.nl for more or ask

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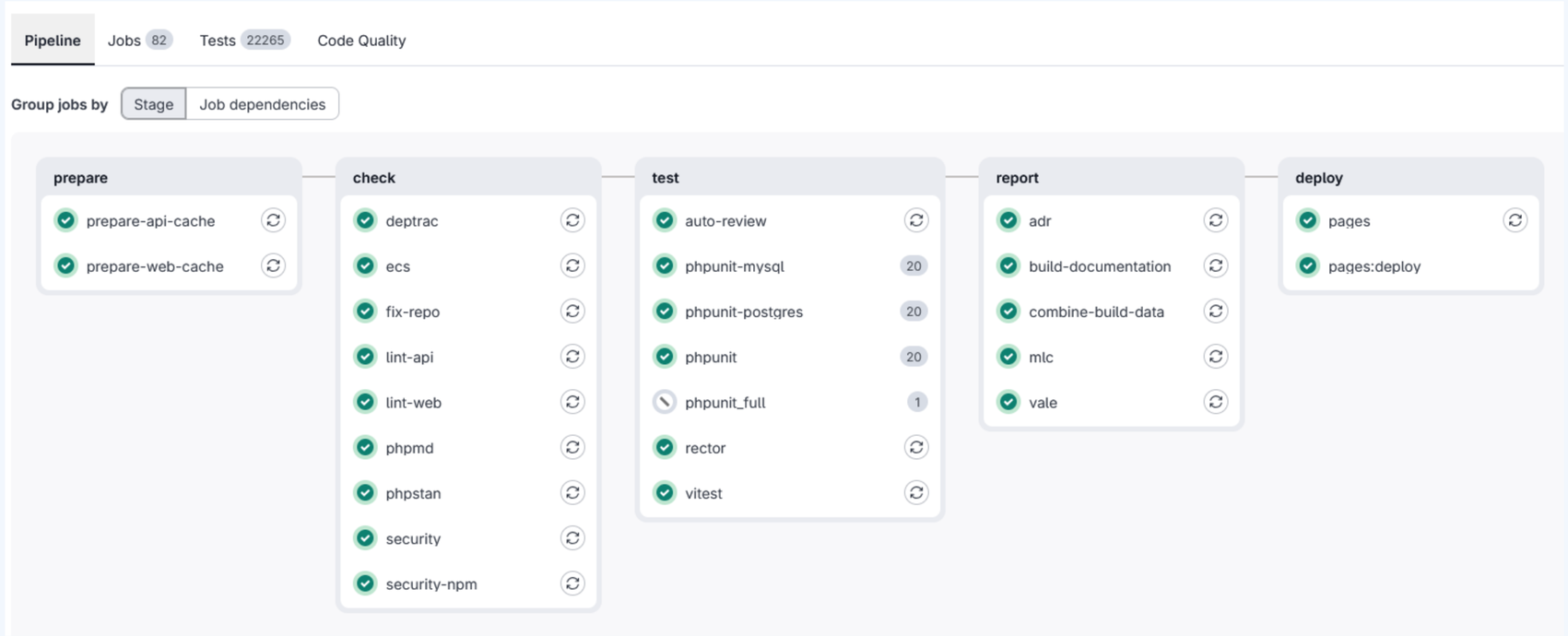
EXPAND YOUR CI BEYOND BASIC TESTS

Everything I tell are ideas, not a requirement. Take what fits your project

HOW MY CI USAGE EXPANDED



HOW MY CI USAGE EXPANDED


Pipeline
Jobs 82
Tests 22265
Code Quality
Group jobs by
Stage
Job dependencies
prepare
prepare-api-cache
prepare-web-cache
check
deptrac
ecs
fix-repo
lint-api
lint-web
phpmd
phpstan
security
security-npm
test
auto-review
phpunit-mysql 20
phpunit-postgres 20
phpunit 20
phpunit_full 1
rector
vitest
report
adr
build-documentation
combine-build-data
mlc
vale
deploy
pages
pages:deploy

YOU HAVE A CI

IF NOT START TODAY

(OKE, TOMORROW)

Some old pc's in a basement can work perfectly.
I have done it for years for a previous job.

MANUAL TESTING

Every software is manually tested.

Or it doesn't have users ...

IS YOUR PHP VALID?

```
find src/ -type f -name '*.php' -exec php -l {} \; | (! grep -v "No syntax errors detected" )
Parse error: syntax error, unexpected token ";" in test.php on line 3

Errors parsing test.php
```

AUTOMATIC TESTING

- PHPUnit
- Codeception
- Pest
- Behat
- Vitest

AUTOMATIC TESTING

```
vendor/bin/phpunit
PHPUnit 11.5.58 by Sebastian Bergmann and contributors.

Runtime:       PHP 8.3.36
Configuration: /home/tvbeek/projects/githash/phpunit.xml.dist

....................................                              38 / 38 (100%)

Time: 00:00.030, Memory: 16.00 MB

OK
Tests: 38, Assertions: 53, PHPUnit Warnings: 1, PHPUnit Deprecations: 35.
```

AUTOMATIC TESTING

```
vendor/bin/phpunit --testdox
PHPUnit 11.5.58 by Sebastian Bergmann and contributors.

Runtime:       PHP 8.3.36
Configuration: /home/tvbeek/projects/githash/phpunit.xml.dist

....................................                              38 / 38 (100%)

Time: 00:00.034, Memory: 16.00 MB

Git File System Hash Finder (TJVB\GitHash\Tests\HashFinders\GitFileSystemHashFinder)
 ✓ We see that the finder is available
 ✓ We can find a hash from the repository root
 ✓ We cant find a hash if the directory doesnt contain a git directory
 ✓ We cant find a hash if the directory is not part of a git repository
 ✓ We cant find a hash if the head file is missing
 ✓ We cant find a hash if the head file is not readable
 ✓ We cant find a hash if the head file is incorrect
 ✓ We cant find a hash if the branch ref does not exist
 ✓ We cant find a hash if the branch ref is not readable
```

AUTOMATIC TESTING

```
vendor/bin/phpunit --testdox-html=testdox.html
```

Git File System Hash Finder (TJVB\GitHash\Tests\HashFinders\GitFileSystemHashFinder)

- ✓ We see that the finder is available
- ✓ We can find a hash from the repository root
- ✓ We cant find a hash if the directory doesnt contain a git directory
- ✓ We cant find a hash if the directory is not part of a git repository
- ✓ We cant find a hash if the head file is missing
- ✓ We cant find a hash if the head file is not readable
- ✓ We cant find a hash if the head file is incorrect
- ✓ We cant find a hash if the branch ref does not exist
- ✓ We cant find a hash if the branch ref is not readable

TESTING YOUR TESTS



MUTATION TESTING



MUTATION TESTING

```
vendor/bin/infection

    ____      ____          __  _
   /  _/___  / __/__  _____/ /_(_)___  ____
   / // __ \/ /_/ _ \/ ___/ __/ / __ \/ __ \
 _/ // / / / __/  __/ /__/ /_/ / /_/ / / / /
/___/_/ /_/_/  \___/\___/\__/_/\____/_/ /_/
#StandWithUkraine
Infection - PHP Mutation Testing Framework version 0.29.11
[notice] You are running Infection with PCOV enabled.
Running initial test suite...
PHPUnit version: 11.5.49
.: killed, M: escaped, U: uncovered, E: fatal error, X: syntax error, T: timed out, S: skipped, I: ignored
Generate mutants...
Processing source code files...
.....MMM.....................................   (   50)
UUUUUUUUUUM..................UM...M....MMM....M..   (  100)
...UMU.......................
130 mutations were generated:
     106 mutants were killed
       0 mutants were configured to be ignored
      13 mutants were not covered by tests
      11 covered mutants were not detected
```

MUTATION TESTING

All files Infection

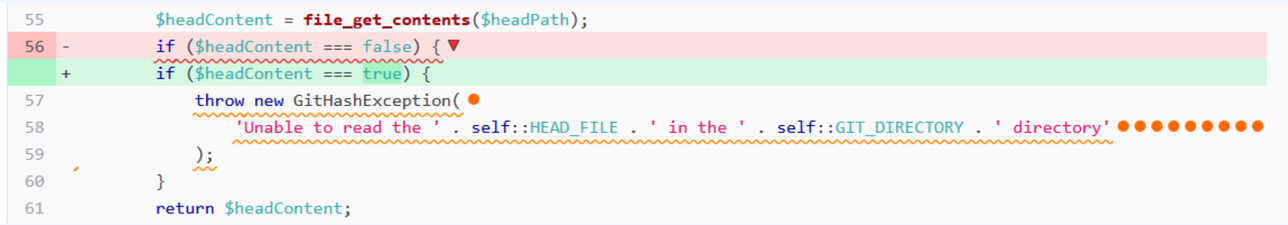
Mutants | Tests

All files

106 | 11 | 13

File / Directory	Mutation Score		Killed	Survived	Timeout	No coverage	Ignored	Runtime errors	Compile errors	Detected	Undetected	Total
	Of total	Of covered										
All files	81.54	90.60	106	11	0	13	0	0	0	106	24	130
Factories/GitHashFinderFactory.php	100.00	100.00	5	0	0	0	0	0	0	5	0	5
HashFinders	76.92	87.91	80	11	0	13	0	0	0	80	24	104
Retrievers/Retriever.php	100.00	100.00	13	0	0	0	0	0	0	13	0	13
Values/GitHash.php	100.00	100.00	8	0	0	0	0	0	0	8	0	8

MUTATION TESTING



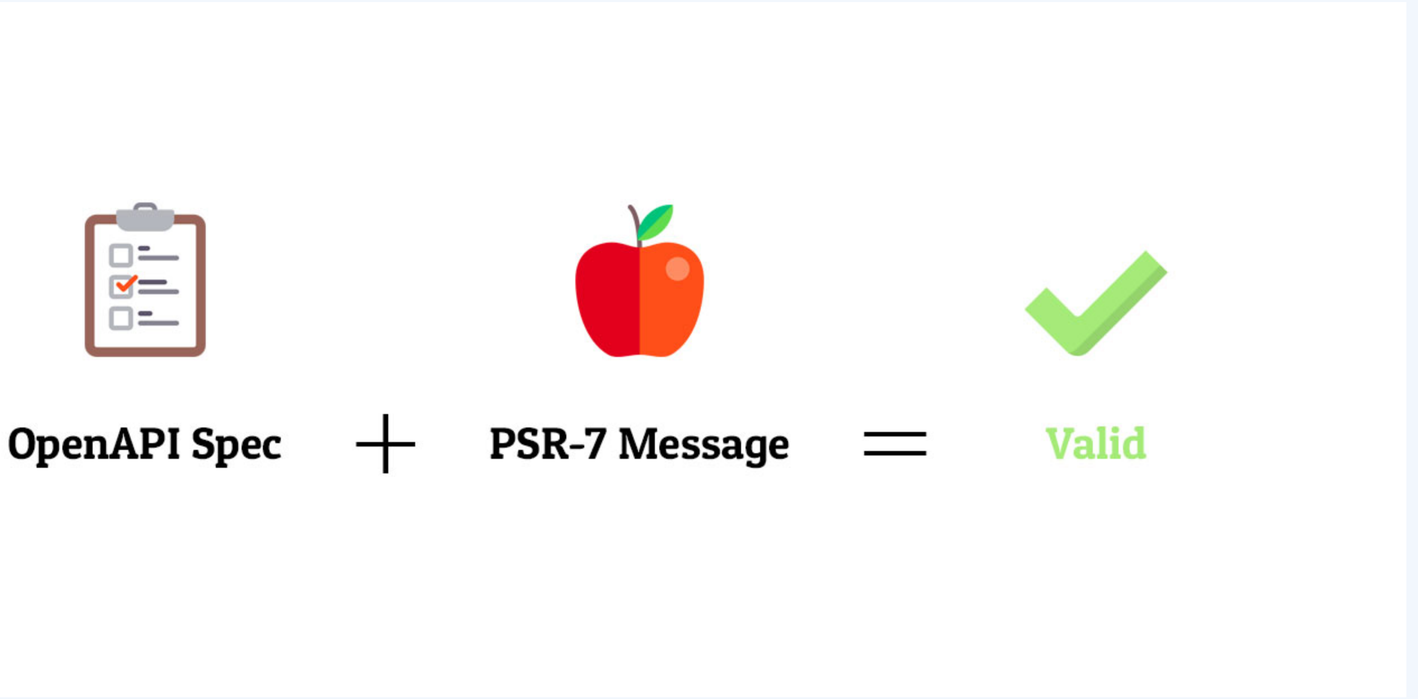
(MIS) USE YOUR TEST FOR NOT SO TRIVIAL TESTS

OPENAPI VALIDATION IN YOUR TESTS

Spectral for your OpenAPI files

SPECTRAL

```
spectral lint --fail-severity warn -v openapi/openapi.yaml
Found 57 rules (46 enabled)
Linting /var/www/openapi/openapi.yaml

/var/www/openapi/paths/featuretoggles.yaml
 22:5  error  parser  Duplicate key: 401: 401  get.responses[401]

✖ 1 problem (1 error, 0 warnings, 0 infos, 0 hints)
```


OpenAPI Spec
PSR-7 Message
Valid

league/openapi-psr7-validator

kirschbaum-development/laravel-openapi-validator for Laravel

OPENAPI VALIDATION IN YOUR TESTS

```
vendor/bin/phpunit
PHPUnit 9.5.2 by Sebastian Bergmann and contributors.

.E                                                                  2 / 2 (100%)

Time: 00:00.138, Memory: 22.00 MB

There was 1 error:

1) Tests\Feature\SimpleGetTest::testBasicTest
League\OpenAPIValidation\PSR7\Exception\NoResponseCode:
              OpenAPI spec contains no such operation [/test,get,418]
```

OPENAPI

```yaml
title: StoreRoleRequest
type: object
additionalProperties: false
properties:
  user_type_id:
    type: integer
  name:
    type: string
  description:
    type: string
    nullable: true
  relation_default:
    type: boolean
  permissions:
    type: array
    nullable: true
    items:
      type: integer
required:
  - user_type_id
  - name
  - relation_default
```

CAN YOUR MOST IMPORTANT COMMANDS RUN?

ROUTING

- Can you list your routes?
- Does all the public functions on your controller classes have a route?

ROUTING

```php
#[Test]
public function weCanListTheRoutes(): void
{
    // run
    $this->artisan('route:list')
        ->assertSuccessful();
}
```

DOES ALL THE PUBLIC FUNCTIONS ON YOUR CONTROLLER CLASSES HAVE A ROUTE?

```php
#[Test]
#[DataProvider('controllersWithFunctionDataProvider')]
public function weCheckIfTheRouteExists(string $controllerFqdn, string $methodName): void
{
    // setup / mock
    $routes = $this->getRoutes();

    if ($methodName === '__invoke') {
        // for an invokable controller is the action is the controller name
        $methodName = $controllerFqdn;
    }

    // verify/assert
    $this->assertContains(
        [
            'controller' => $controllerFqdn,
            'action' => $methodName,
        ],
        $routes,
        'We did not found a route for the function ' . $methodName . ' on ' . $controllerFqdn . ' ',
    );
}
```

```php
public static function controllersWithFunctionDataProvider(): Generator
{
    $finder = Finder::create();

    $controllerFiles = $finder->name('*Controller.php')
        ->files()
        ->in(self::DEFAULT_PATHS);

    foreach ($controllerFiles as $file) {
        $fqdn = self::getFqdnForFilePath($file->getRealPath());

        if (in_array($fqdn, self::$ignoreForRoutes, true)) {
            continue;
        }

        $class = new ReflectionClass($fqdn);

        if ($class->isInstantiable() === false) {
            // we need to have an instantiable class to work
            continue;
        }
```

```
        $skippingMethodNames = self::$skippingClassRouteMethods[$fqdn] ?? [];
        $skippingMethodNames = array_merge($skippingMethodNames, self::$skippingGlobalRouteMethods);
        $skippingMethodNames[] = '__construct'; // we do not test the constructor :)

        $publicMethods = $class->getMethods(ReflectionMethod::IS_PUBLIC);

        foreach ($publicMethods as $publicMethod) {
            $publicMethodName = $publicMethod->getName();

            if ($publicMethod->getDeclaringClass()->getName() !== $fqdn) {
                // this is not a direct function, we ignore it
                continue;
            }
            if (in_array($publicMethodName, $skippingMethodNames, true)) {
                continue;
            }

            yield $fqdn . ' - ' . $publicMethodName => [$fqdn, $publicMethodName];
        }
    }
}
```

```php
protected static function getFqdnForFilePath(string $filePath): string
{
  $realProjectDir = realpath(self::PROJECT_DIR) . '/';

  // Any off the App classes
  if (str_starts_with($filePath, $realProjectDir . 'app/')) {
    // remove the app dir and the .php extension
    $className = substr(
      $filePath,
      strlen($realProjectDir . 'app/'),
      -4
    );
    // Replace the / with a \
    $className = str_replace('/', '\\', $className);
    // Add the app namespace
    return 'App\\' . $className;
  }

  // Possible add other namespace parts

  // Unknown
  self::fail('Impossible to match "' . $filePath . '" to FQDN');
}
```

```php
private function getRoutes(): array
{
    if (!isset(self::$routes)) {
        /** @var Router $router */
        $router = $this->app->make(Router::class);

        self::$routes = (new Collection($router->getRoutes()))
            ->filter(static function (Route $route): bool {
                return $route->getControllerClass() !== null;
            })
            ->map(static function (Route $route): array {
                return [
                    // we remove the \ in front of the FQDN if that is set.
                    'controller' => ltrim((string) $route->getControllerClass(), '\\'),
                    'action' => $route->getActionMethod(),
                ];
            })
            ->toArray();
    }

    return self::$routes;
}
```

DO AL YOUR INTERFACES HAVE A BINDING?

```php
public static function contractsDataProvider(): Generator
{
  $finder = Finder::create();

  $contractFiles = $finder->name('*Contract.php')
    ->files()
    ->in(self::DEFAULT_PATHS);

  foreach ($contractFiles as $file) {
    $fqdn = self::getFqdnForFilePath($file->getRealPath());

    if (in_array($fqdn, self::$ignore, true)) {
      continue;
    }
    yield $file->getRealPath() => [$fqdn];
  }
}

final public const DEFAULT_PATHS = [
  __DIR__ . '/../../app', // add other paths
];

private static array $ignore = [
  // Add the interface that aren't bound by purpose
];
```

```php
#[Test]
#[DataProvider('contractsDataProvider')]
public function weCanGetTheImplementationFromTheContainer(string $contractName): void
{
  // run
  try {
    $class = $this->app->make($contractName);

    // verify/assert
    $this->assertInstanceOf($contractName, $class);
  } catch (Throwable $throwable) {
    $this->fail(
      'Failed to get an instance for "' . $contractName.
      '". The error is: ' . $throwable->getMessage()
    );
  }
}
```



BUT WE HAVE STYLE

- PHP_CodeSniffer
- PHP Cofing Standards Fixer
- Easy Coding Standard (ECS)

- yamllint
- markdown

BUT WE HAVE STYLE

- PHP_CodeSniffer
- PHP Cofing Standards Fixer
- Easy Coding Standard (ECS)
  - Easy way to combine both in one config file
  - Breacking changes in minor updates :(
- yamllint
- markdown

DO WE HAVE QUALITY?

- PHPMD
- PHPStan
- Deptrac
- Psalm
- PHPArkitect

PHPMD

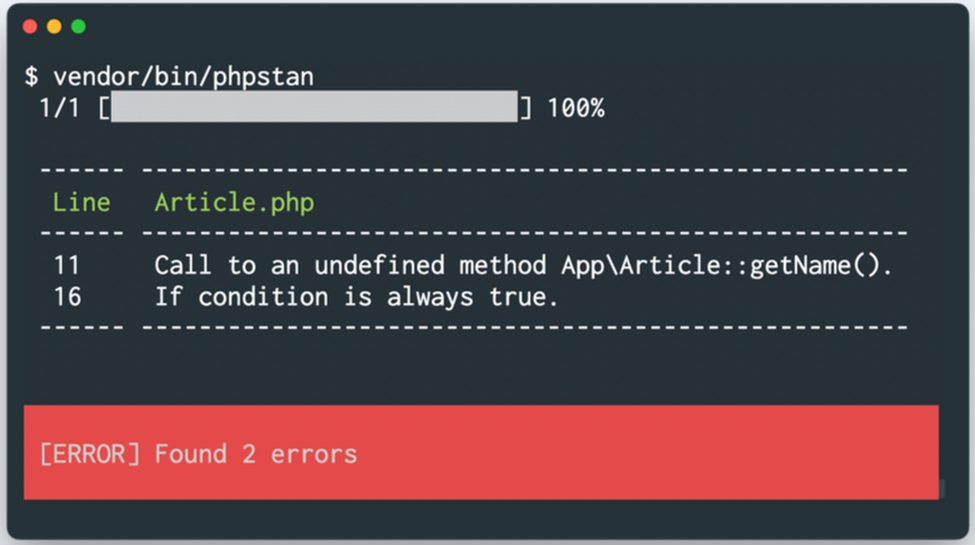
```php
public function short(int $size = 8, int $offset = 0): string
{
    return substr($this->hash, 0, $size);
}
```

```
composer phpmd
/.../GitHash.php:21  UnusedFormalParameter  Avoid unused parameters such as '$offset'.
Script vendor/bin/phpmd src/ text phpmd.xml.dist handling the phpmd event returned with error code 2
```

PHPMD

```
composer phpmd
/.../CreateRegistrationReport.php:31  CouplingBetweenObjects  The class CreateRegistrationReport has a coupling between objects value of 21. Consider to reduce the
/.../CreateRegistrationReport.php:33  ExcessiveParameterList  The method __construct has 13 parameters. Consider reducing the number of parameters to 10 or less.
Script vendor/bin/phpmd analyze --format text --exclude *Test.php src packages phpmd.xml.dist handling the phpmd event returned with error code 2
```

PHPSTAN

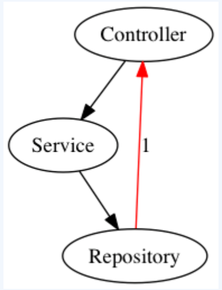

$ vendor/bin/phpstan
1/1 [] 100%
Line Article.php
11 Call to an undefined method App\Article::getName().
16 If condition is always true.
[ERROR] Found 2 errors

PHPSTAN

```
vendor/bin/phpstan
Note: Using configuration file /home/tvbeek/projects/githash/phpstan.neon.dist.
 19/19 [▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓] 100%

 ------ ------------------------------------------------------------------------
  Line   src/HashFinders/GitShellExecCommandHashFinder.php
 ------ ------------------------------------------------------------------------
  35     Parameter #2 $string of function explode expects string, string|false given.
 ------ ------------------------------------------------------------------------

 [ERROR] Found 1 errors
```

DEPTRAC

```
vendor/bin/deptrac --formatter=graphviz-image --output=deptrac-report.png
```



DEPTRAC

```
composer deptrac
 5326/5326 [▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓] 100%

 -------------------------- ------------------------------------------------------------------------------------------------------------------------
  Reason                     Application
 -------------------------- ------------------------------------------------------------------------------------------------------------------------
  DependsOnDisallowedLayer   Nfo\Support\Application\Logging\DTO\ResponseLogData must not depend on Illuminate\Http\Response
                             You are depending on token that is a part of a layer that you are not allowed to depend on. (Other)
                             /var/www/api/src/Support/Application/Logging/DTO/ResponseLogData.php:33
  DependsOnDisallowedLayer   Nfo\Support\Application\Logging\DTO\ResponseLogData must not depend on Symfony\Component\HttpFoundation\Response
                             You are depending on token that is a part of a layer that you are not allowed to depend on. (Other)
                             /var/www/api/src/Support/Application/Logging/DTO/ResponseLogData.php:23
 -------------------------- ------------------------------------------------------------------------------------------------------------------------


 ----------------------------
  Report
 -------------------- -------
  Violations           2
  Skipped violations   41
  Uncovered            0
  Allowed              36486
```

```
 Warnings             0
 Errors               0
-------------------- -------

Script vendor/bin/deptrac --report-uncovered --fail-on-uncovered handling the deptrac event returned with error code 1
```

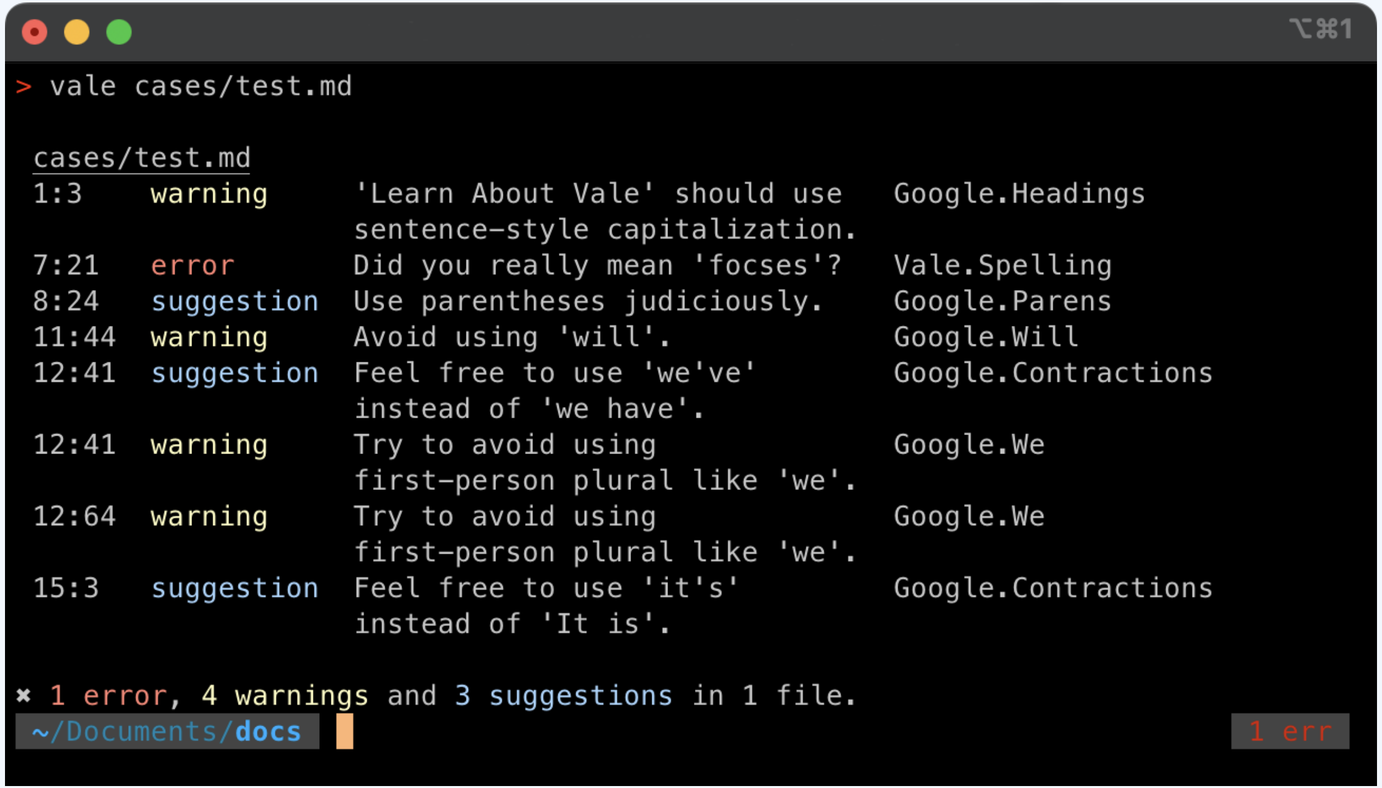
WAIT, WAT ABOUT SECURITY?

```
/var/www/api$ composer audit
No security vulnerability advisories found.
```



BUT THERE IS MORE THAN CODE

Vale for text style vale.sh


⌥⌘1
> vale cases/test.md
cases/test.md
1:3 warning 'Learn About Vale' should use sentence-style capitalization. Google.Headings
7:21 error Did you really mean 'focses'? Vale.Spelling
8:24 suggestion Use parentheses judiciously. Google.Parens
11:44 warning Avoid using 'will'. Google.Will
12:41 suggestion Feel free to use 'we've' instead of 'we have'. Google.Contractions
12:41 warning Try to avoid using first-person plural like 'we'. Google.We
12:64 warning Try to avoid using first-person plural like 'we'. Google.We
15:3 suggestion Feel free to use 'it's' instead of 'It is'. Google.Contractions
✖ 1 error, 4 warnings and 3 suggestions in 1 file.
~/Documents/docs
1 err

BUT THERE IS MORE THAN CODE

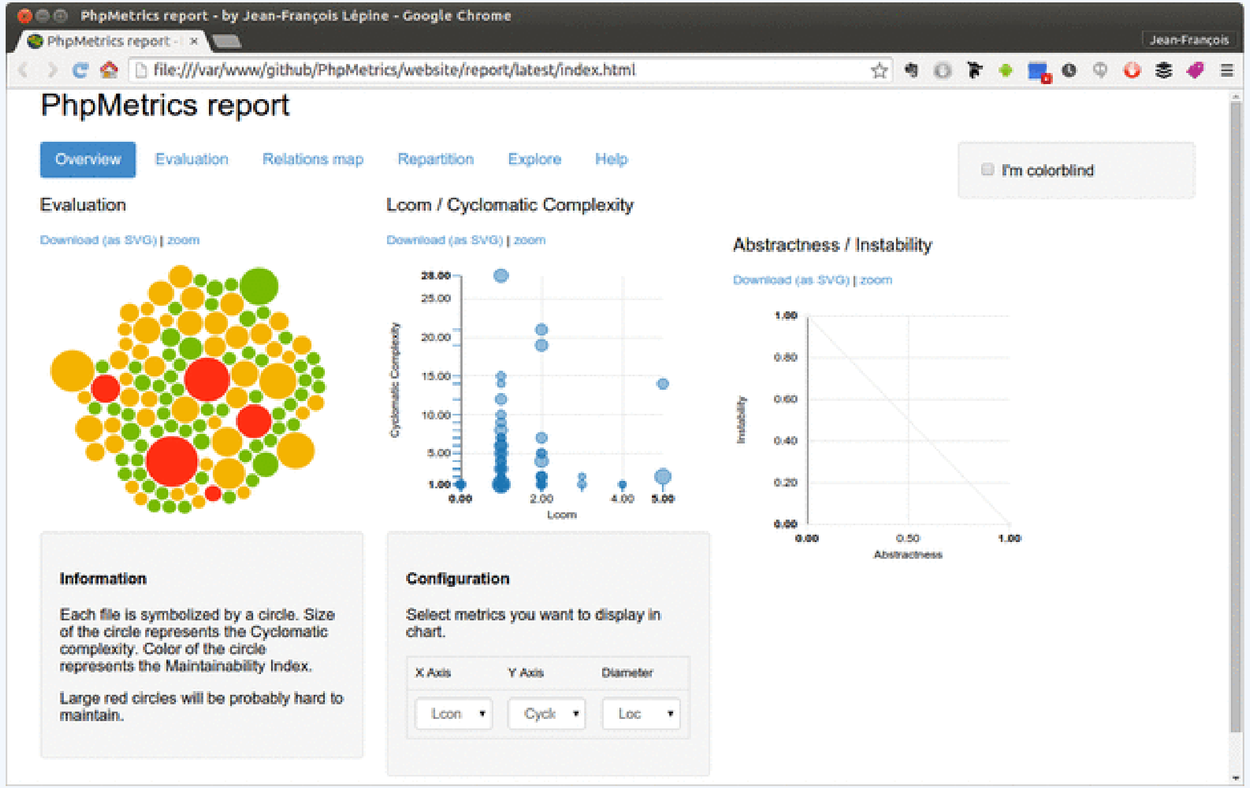
Markup Link Checker

github.com/becheran/mlc


mlc@mlc-pc:~$

NUMBERS, STATISTICS AND OTHER ~~LIES~~ INFORMATION

PHPMETRICS


PhpMetrics report - by Jean-François Lépine - Google Chrome
PhpMetrics report
Jean-François
file:///var/www/github/PhpMetrics/website/report/latest/index.html
PhpMetrics report
Overview
Evaluation
Relations map
Repartition
Explore
Help
I'm colorblind
Evaluation
Download (as SVG) | zoom
Lcom / Cyclomatic Complexity
Download (as SVG) | zoom
Cyclomatic Complexity
Lcom
Abstractness / Instability
Download (as SVG) | zoom
Instability
Abstractness
Information
Each file is symbolized by a circle. Size of the circle represents the Cyclomatic complexity. Color of the circle represents the Maintainability Index.
Large red circles will be probably hard to maintain.
Configuration
Select metrics you want to display in chart.
X Axis
Y Axis
Diameter
Lcon
Cycl
Loc

AST METRICS

AST Metrics

- Overview
- The code
- Architecture
- Health
- Team
- Help

Sponsor

411 FILES · ANALYZED ON 2026-10-08 15:34

Your code is in decent shape.

Some tests touch too much at once, a single person carries it, and maintainability is slipping.

Focused classes	1.5
Complexity per method	5.94
Method size	24
Ease of maintenance	74
Test isolation	71
People who carry the project	1

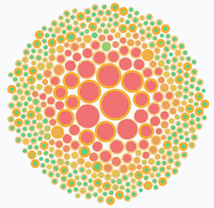
TEAM **Jean-François Lépine** signs **98.8%** of the commits. See the team

Code map

Browse classes

One bubble per class. Size = lines of code, color = complexity, ring = recent git activity.

Group by: All | By folder | By community



TOMASVOTRUBA/LINES

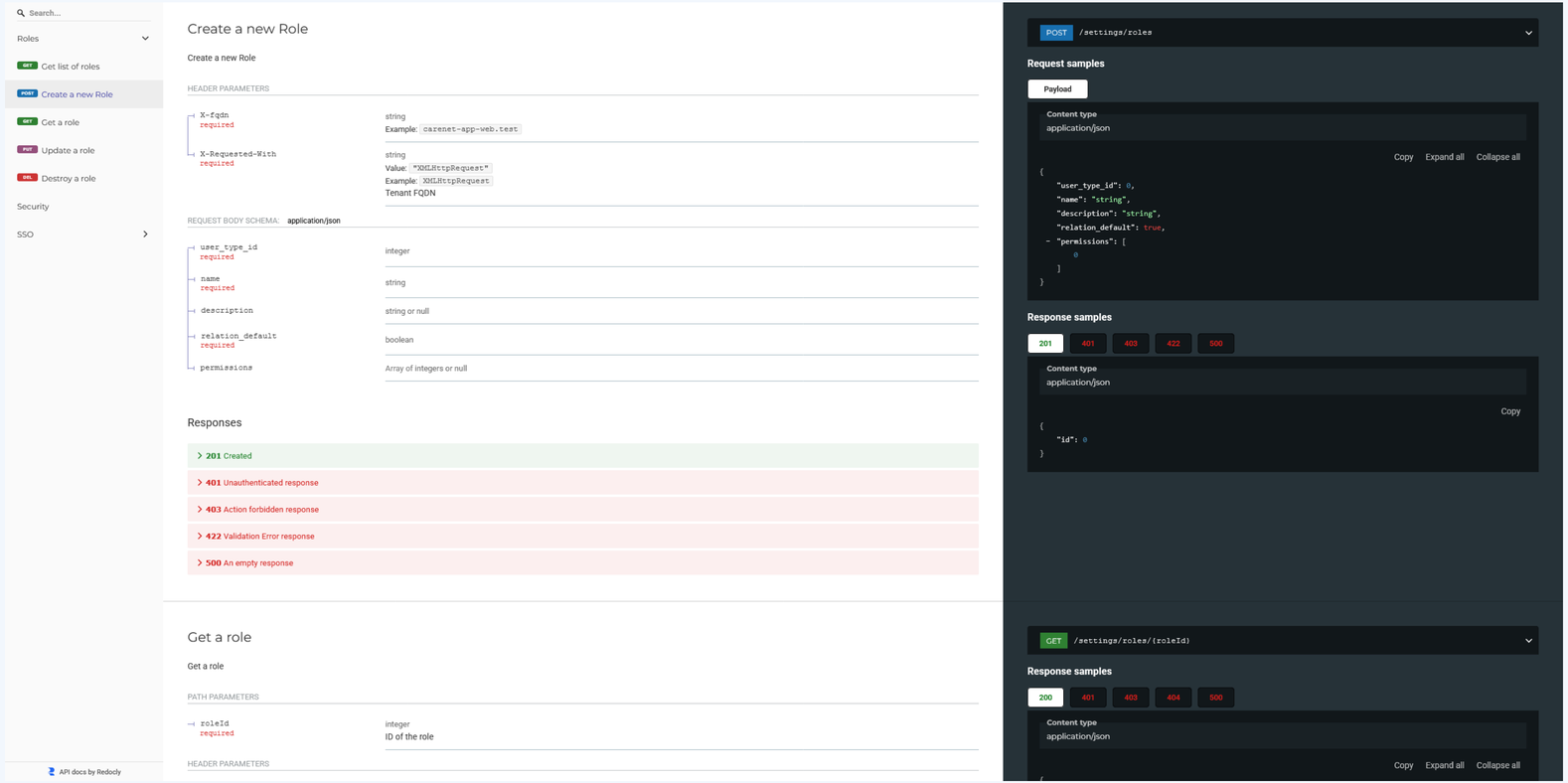
```
Filesystem                                      count
Directories ..................................... 2 812
Files ........................................... 9 181

Lines of code                       count / relative
Code ............................ 585 167 / 92.7 %
Comments ........................  45 762 /  7.3 %
Total ........................... 630 929 /  100 %

Structure                                       count
Namespaces ...................................... 2 740
Classes ......................................... 7 751
 * Constants ..................................... 420
 * Methods ..................................... 25 548
Interfaces ...................................... 1 085
Traits ............................................ 53
Enums ............................................. 95
Functions ......................................... 0
Closures ........................................ 4 520
Global constants .................................. 0

Method access                       count / relative
Non-static ...................... 23 719 / 92.8 %
Static ........................... 1 829 /  7.2 %

Method visibility                   count / relative
Public ........................... 21 316 / 83.4 %
Protected ........................   284 /  1.1 %
Private ........................... 3 948 / 15.5 %
```

COMBINE DOCUMENTATION

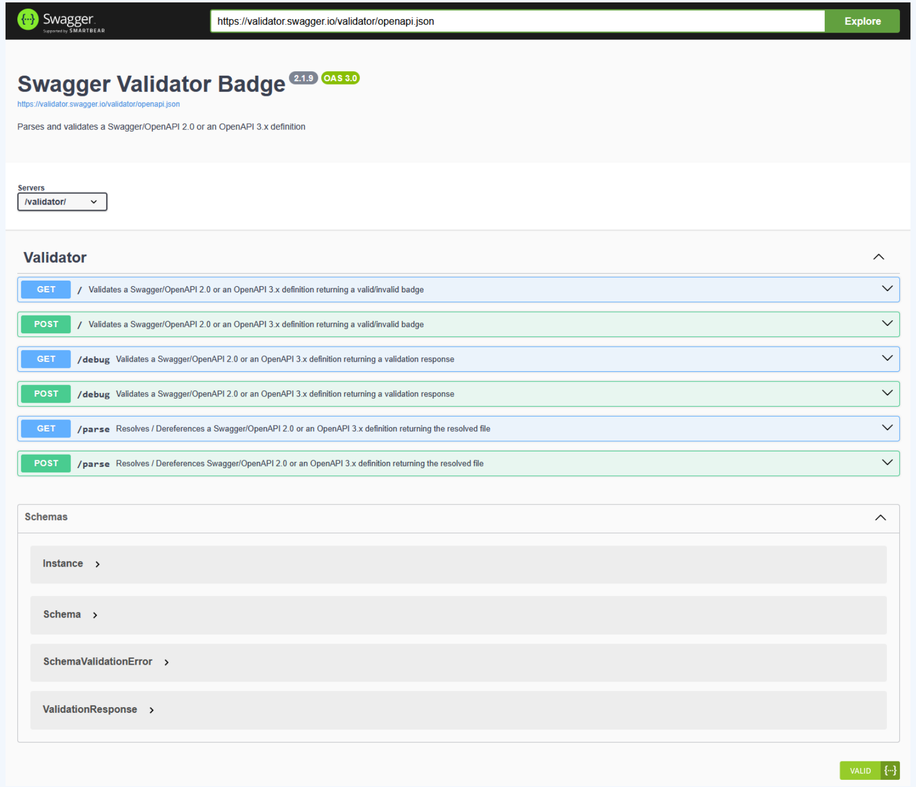
I hope you have docs

```
# README

TODO
```

REDOC-CLI FOR OPENAPI


Search...
Roles
GET Get list of roles
POST Create a new Role
GET Get a role
PUT Update a role
DEL Destroy a role
Security
SSO
API docs by Redocly
Create a new Role
Create a new Role
HEADER PARAMETERS
X-fqdn
required
string
Example: carenet-app-web.test
X-Requested-With
required
string
Value: "XMLHttpRequest"
Example: XMLHttpRequest
Tenant FQDN
REQUEST BODY SCHEMA: application/json
user_type_id
required
integer
name
required
string
description
string or null
relation_default
required
boolean
permissions
Array of integers or null
Responses
201 Created
401 Unauthenticated response
403 Action forbidden response
422 Validation Error response
500 An empty response
POST /settings/roles
Request samples
Payload
Content type
application/json
Copy Expand all Collapse all
{
"user_type_id": 0,
"name": "string",
"description": "string",
"relation_default": true,
"permissions": [
0
]
}
Response samples
201 401 403 422 500
Content type
application/json
Copy
{
"id": 0
}
Get a role
Get a role
PATH PARAMETERS
roleId
required
integer
ID of the role
HEADER PARAMETERS
GET /settings/roles/{roleId}
Response samples
200 401 403 404 500
Content type
application/json
Copy Expand all Collapse all

OR SWAGGER UI FOR OPENAPI


Swagger
https://validator.swagger.io/validator/openapi.json
Explore
Swagger Validator Badge
2.1.9
OAS 3.0
https://validator.swagger.io/validator/openapi.json
Parses and validates a Swagger/OpenAPI 2.0 or an OpenAPI 3.x definition
Servers
/validator/
Validator
GET / Validates a Swagger/OpenAPI 2.0 or an OpenAPI 3.x definition returning a valid/invalid badge
POST / Validates a Swagger/OpenAPI 2.0 or an OpenAPI 3.x definition returning a valid/invalid badge
GET /debug Validates a Swagger/OpenAPI 2.0 or an OpenAPI 3.x definition returning a validation response
POST /debug Validates a Swagger/OpenAPI 2.0 or an OpenAPI 3.x definition returning a validation response
GET /parse Resolves / Dereferences a Swagger/OpenAPI 2.0 or an OpenAPI 3.x definition returning the resolved file
POST /parse Resolves / Dereferences Swagger/OpenAPI 2.0 or an OpenAPI 3.x definition returning the resolved file
Schemas
Instance
Schema
SchemaValidationError
ValidationResponse
VALID

MARKDOWN TO HTML

And give it your own styling



MARKDOWN TO HTML

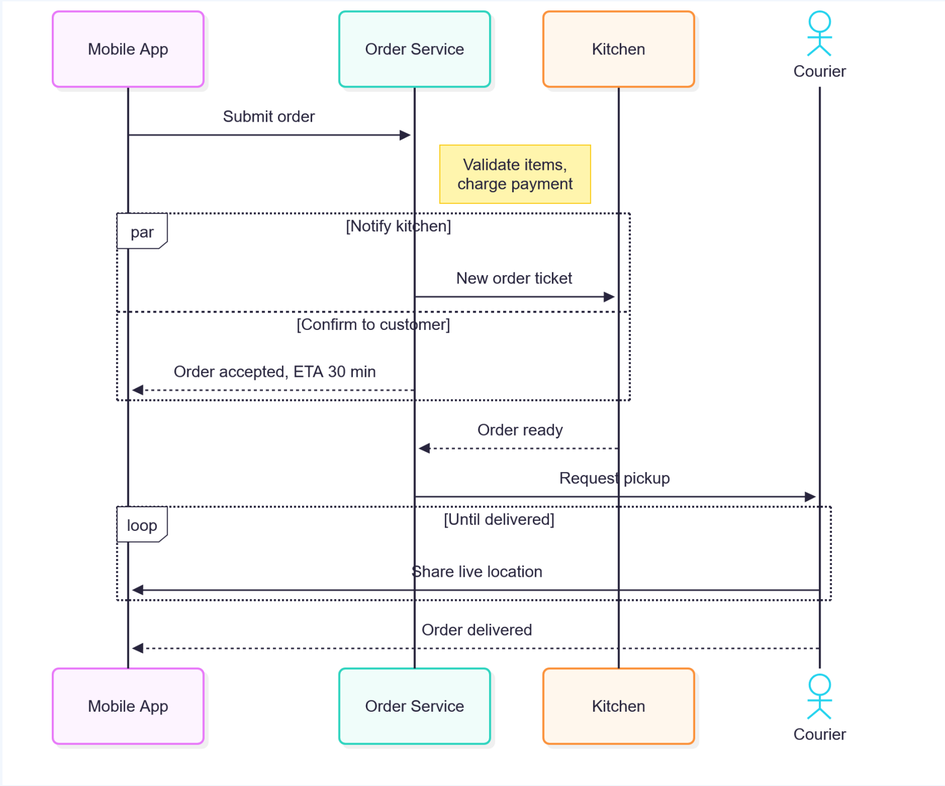
And give it your own styling

```
$markdownEnvironment = new Environment([
  'heading_permalink' => [
    'html_class' => 'permalink',
    'symbol' => '# ',
  ],
]);

$markdownEnvironment->addExtension(new CommonMarkCoreExtension());
$markdownEnvironment->addExtension(new HeadingPermalinkExtension());
$markdownEnvironment->addExtension(new StrikethroughExtension());
$markdownEnvironment->addExtension(new TableExtension());
$markdownEnvironment->addExtension(new TableOfContentsExtension());
$markdownEnvironment->addExtension(new TaskListExtension());

$markdownConverter new MarkdownConverter($markdownEnvironment);

$markdown = file_get_contents($file);
$html = $markdownConverter->convert($markdown);
file_put_contents($targetDirectory . $targetFilename, $html);
```

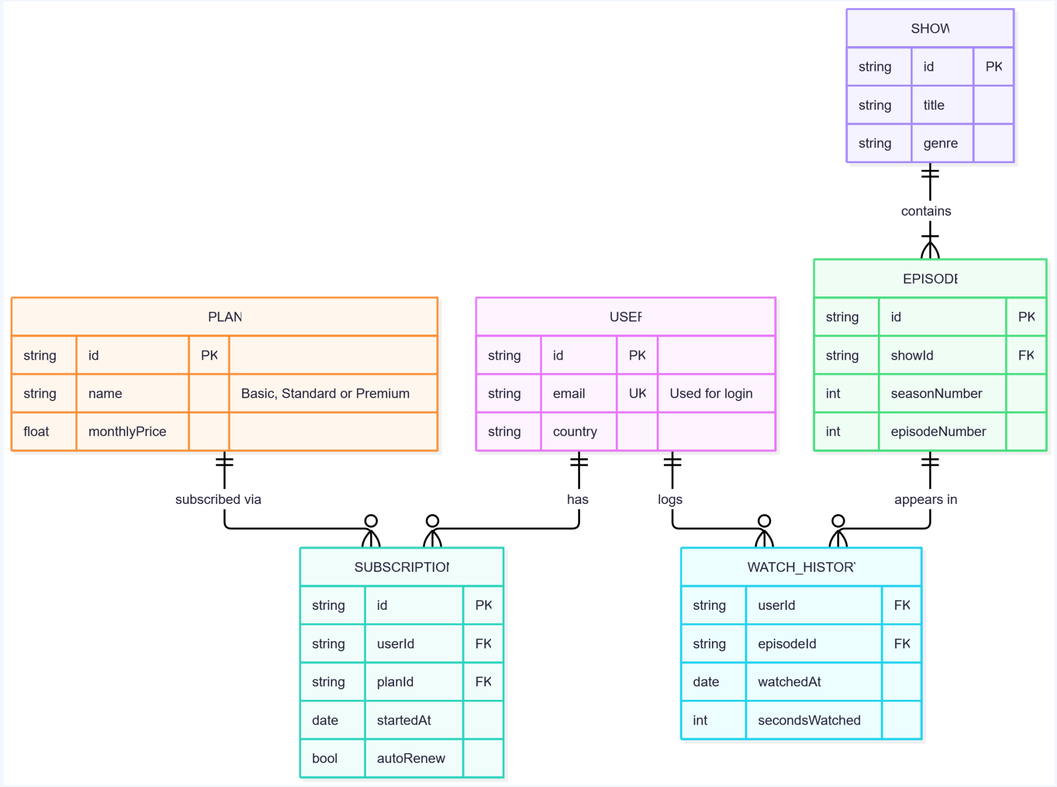
MERMAID FOR DIAGRAMS

```
sequenceDiagram
    participant App as Mobile App
    participant API as Order Service
    participant Kitchen
    actor Courier

    App->>API: Submit order
    Note right of API: Validate items,charge payment
    par Notify kitchen
        API->>Kitchen: New order ticket
    and Confirm to customer
        API-->>App: Order accepted, ETA 30 min
    end
    Kitchen-->>API: Order ready
    API->>Courier: Request pickup
    loop Until delivered
        Courier->>App: Share live location
    end
    Courier-->>App: Order delivered
```

MERMAID FOR DIAGRAMS


Mobile App
Order Service
Kitchen
Courier
Submit order
Validate items, charge payment
par
[Notify kitchen]
New order ticket
[Confirm to customer]
Order accepted, ETA 30 min
Order ready
Request pickup
loop
[Until delivered]
Share live location
Order delivered
Mobile App
Order Service
Kitchen
Courier

MERMAID FOR DIAGRAMS


SHOW
string id PK
string title
string genre
contains
EPISODE
string id PK
string showId FK
int seasonNumber
int episodeNumber
PLAN
string id PK
string name Basic, Standard or Premium
float monthlyPrice
USER
string id PK
string email UK Used for login
string country
subscribed via
has
logs
appears in
SUBSCRIPTION
string id PK
string userId FK
string planId FK
date startedAt
bool autoRenew
WATCH_HISTORY
string userId FK
string episodeId FK
date watchedAt
int secondsWatched

COMBINE ALL AND PUBLISH (INTERNAL)

- Testdox html for tools like PHPUnit
- HTML reports
- Images / Graphs



NEW RELEASE

Is there something that can help?

COMBINE CHANGELOGS FILES TO ONE CHANGELOG

(We have a create release job)

JBZOO/COMPOSER-DIFF

Example. Dummy data

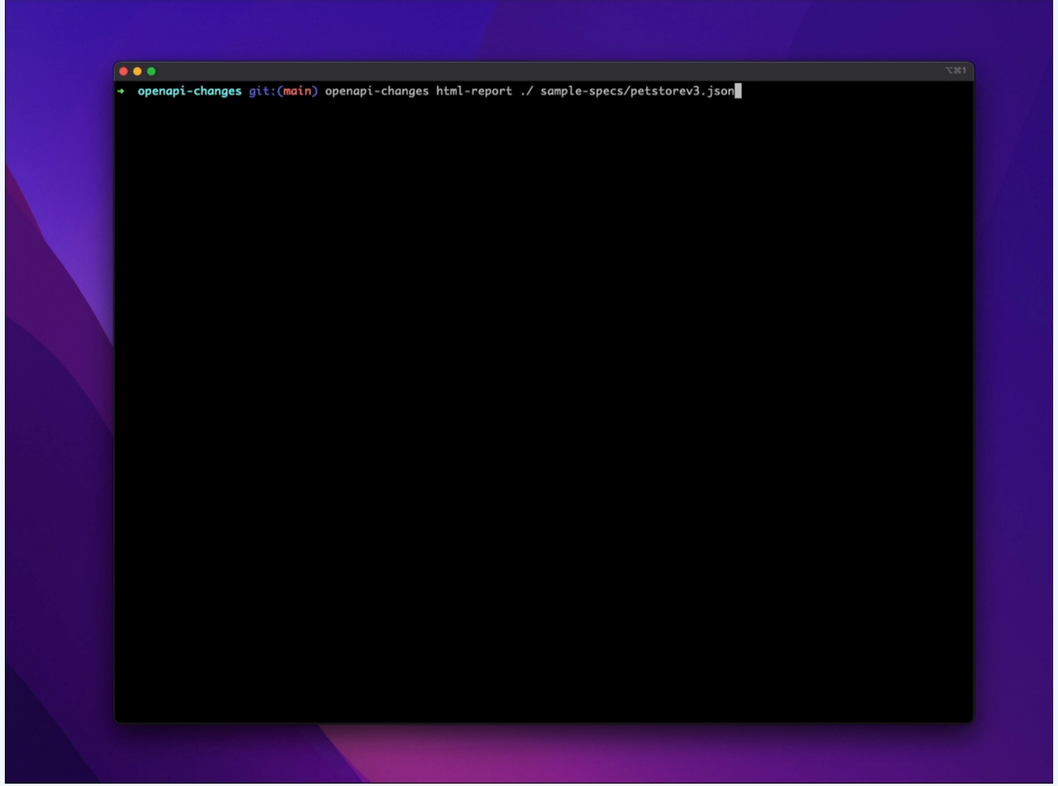
PHP Production Dependencies (require)

Package	Action	Old Version	New Version	Details
vendor/downgraded	Downgraded	2.0.0	1.0.0	https://gitlab.com/vendor/downgraded/compare/2.0.0...1.0.0
vendor/new	New	-	1.0.0	
vendor/no-tag	Changed	dev-master@bbc0fba	dev-master@f2f9280	https://gitlab.com/vendor/package-1/compare/bbc0fba...f2f9280
vendor/no-tag-new	New	-	dev-develop@a999014	
vendor/removed	Removed	1.0.0	-	
vendor/upgraded	Upgraded	1.0.0	2.0.0	https://gitlab.com/vendor/upgraded/compare/1.0.0...2.0.0

PHP Dev Dependencies (require-dev)

Package	Action	Old Version	New Version	Details
vendor/downgraded-dev	Downgraded	2.0.0	1.0.0	https://gitlab.com/vendor/downgraded-dev/compare/2.0.0...1.0.0
vendor/new-dev	New	-	1.0.0	
vendor/removed-dev	Removed	1.0.0	-	
vendor/upgraded-dev	Upgraded	1.0.0	2.0.0	https://gitlab.com/vendor/upgraded-dev/compare/1.0.0...2.0.0

OPENAPI-CHANGES

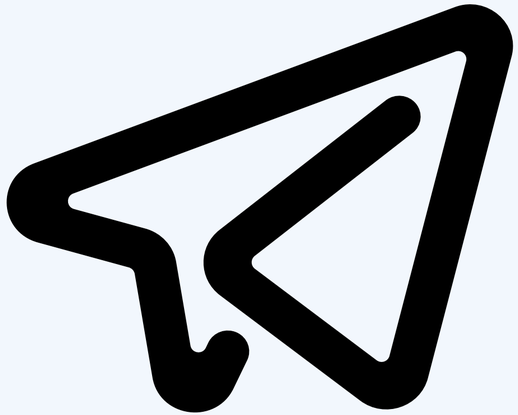

⌥⌘1
➜ openapi-changes git:(main) openapi-changes html-report ./ sample-specs/petstorev3.json

LET'S DEPLOY

BUILD A DOCKER IMAGE



DEPLOYER.ORG



TAR/ZIP AND SEND MAIL

QUESTION TO ASK YOURSELF

CAN YOUR CI PUSH?

- This can be a security issue!
- Rector / codestyle changes

WHO CAN ACCESS THE ENVIRONMENT VARIABLES?

Do you trust them?

WHAT CAN YOU AUTOMATE TO HAVE LESS REPEATING WORK?

Do some work to be lazy

WHAT CAN YOU AUTOMATE BECAUSE IT CAN BE USEFUL BUT NOT WHAT YOU WANT TO DO YOURSELF?

DO YOU WANT TO UPDATE YOUR DEPENDENCIES AUTOMATIC?

- Renovate
- Dependabot

GOOD INSIGHTS CAN HELP YOU FIX BAD PARTS

20 minutes to fix a bad part is useful if you do not need to have 15 minutes to find something.

ADVICE FROM OTHERS

ADVICE FROM OTHERS (LLM)



CodeRabbit

ADVICE FROM OTHERS (GITHUB)

- Actionlint
- Pinact
- zizmore

TAKE SMALL STEPS

Add what gives the most value and expand your CI.

And take your team with you, allow a job to fail can help for this.
And configure the tools how you want to have it with the use of a baseline.



THANKS!

IMAGE SOURCES

- fairy tales entanglement children By CDD20
- male 3d model isolated 3d model By Peggy_Marco
- bank to sit relax park bench By Peggy_Marco
- male 3d model isolated 3d model By Peggy_Marco