

# Automating PHP Code Style with GitLab CI and ECS-Fixer

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# How did I get here?

Pablo

- I want these meetups to continue 🥰
- Chief-KISS-Officer at Webcraft
  - Also: CTO / Lead-Dev
- My Superpower: Doing talks completely unprepared
- Talk to me about: Rock Climbing, Cooking

# Webcraft and our Code

- Based in Uster
- 60 People
- 11 Devs
- 3 online shops
  - [supermagnete.ch](https://supermagnete.ch) (at/be/de/dk/es/fi/fr/gr/hu/it/nl/pt/ro)
  - [qbendo.ch](https://qbendo.ch) (at/be/de/dk/es/fi/fr/gr/it/nl/pl/pt/se)
  - [cubeless.ch](https://cubeless.ch)
- Started in 2003
- LAMP from the start
- Symfony since 2016

# The Problem

- Old codebase (21 years!) and many devs
- Coding-Standards & Guidelines exist but are not enforced

# The Result

- Weird formatting
- Discussions in MRs
- Commits to "improve formatting a bit"
  - Ugly git history & git blame
  - MRs hard to review
  - Busywork instead of solving problems

# The usual suspects don't work well in a Team

- PhpStorm Auto-Formatting
  - Hard to configure consistently & keep rules up to date for all devs
- Run PHP CS Fixer / ECS / whatever locally
  - Hard-ish to run in our setup (remote VMs)
  - Easy to update rules (config in the codebase)

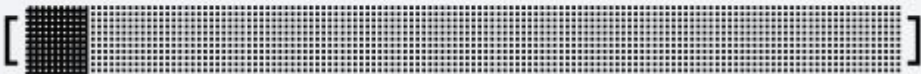
## Commit Checks



Reformat code

```
./vendor/bin/ecs check --fix
```

```
300/3485
```



```
8%
```



Local solutions need local setup



# Our GitLab CI Pipeline

## build

✓ composer



✓ dbcopy



✓ yarn



## test

✓ jest



✓ phpunit:acceptance



✓ phpunit:integration



✓ phpunit:rest



✓ phpunit:unit



## acceptance

✓ mandatory:multisite



✓ mandatory:primary



✓ mandatory:product\_filter



✓ mandatory:secondary



⚙️ nightly:autodispatch



⚙️ nightly:editcart



⚙️ nightly:rest



⚙️ nightly:vat



## static

✓ charset



✓ lint



✓ phpstan



**MAKE IT BIGGER**



# The Plan



- ECS
  - [Easy-Coding-Standard](#) package by Tomas Votruba (AKA the Rector Guy)
  - Wrapper around PHP\_CodeSniffer and PHP CS Fixer
  - + Simple PHP Config
  - + Prepared Sets
  - + Parallel Runs (PHP CS Fixer can do that now as well)
- Add it to our GitLab CI Pipeline
- Fix changes automatically and commit them to our Repository



## .gitlab-ci.yml

```
1  php_coding_standard:
2    image: php82-dev
3    stage: static
4    needs: [ composer ]
5    before_script:
6      - git remote rm gitlab_origin || true
7      - git remote add gitlab_origin
8        https://oauth2:$GIT_ACCESS_TOKEN@<git.company.com>/$CI_PROJECT_NAMESPACE/$CI_PROJECT_NAME.git
9      - git config user.email "ci@company.com"
10     - git config user.name "Friendly CI Pipeline"
11  script:
12    - vendor/bin/ecs --fix --no-progress-bar --no-error-table
13  after_script:
14    - git commit -a -m "fix php-coding-standard with ECS"
15    - git push gitlab_origin HEAD:$CI_COMMIT_REF_NAME
16  cache:
17    paths:
18      - .ecs_cache/
19    key: "$CI_JOB_NAME"
20    only: [ merge_requests ]
```

## ecs.php

```
1 <?php
2 declare(strict_types=1);
3
4 use PhpCsFixer\Fixer\ControlStructure\TrailingCommaInMultilineFixer;
5 use Symplify\EasyCodingStandard\Config\ECSCConfig;
6
7 return function (ECSCConfig $ecsConfig): void {
8     $ecsConfig->paths([__DIR__]);
9
10    $services = $ecsConfig->services();
11    $services->set(TrailingCommaInMultilineFixer::class);
12
13    $ecsConfig->skip([
14        __DIR__ . '/vendor',
15        __DIR__ . '/var',
16    ]);
17 };
```



# The BIGGER Pipeline

## build

✓ composer

✓ dbcopy

✓ yarn

## test

✓ jest

✓ phpunit:acceptance

✓ phpunit:integration

✓ phpunit:rest

✓ phpunit:unit

## acceptance

✓ mandatory:multisite

✓ mandatory:primary

✓ mandatory:product\_filter

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⚙️ nightly:autodispatch

⚙️ nightly:editcart

⚙️ nightly:rest

⚙️ nightly:vat

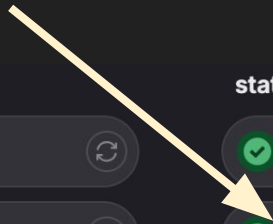
## static

✓ charset

✓ php\_coding\_standard

✓ lint

✓ phpstan























# The Result 🙌

## Draft: **SM-7738**: Add parcel count to parcel report

 Open Peter Pan requested to merge `SM-7738/packaging_report` into `master` 1 day ago

Overview 0 Commits 7 **Pipelines 6** Changes 6

Status	Pipeline	Created by	Stages
 Passed ⌚ 00:15:09 📅 1 day ago	<b>fix php-coding-standard with ECS</b> #46828  2091  dbcf3e94  <b>merge request</b>		    
 Passed ⌚ 00:14:42 📅 1 day ago	<b>SM-7829: Filter out follow ups &amp; ret...</b> #46827  2091  72b34550  <b>merge request</b>		    

## The Result 🧐

```
1 git show --shortstat b3662dc8c44417bcc65b7f34f7e69b09fa1c564e
2 commit b3662dc8c44417bcc65b7f34f7e69b09fa1c564e
3 Author: Friendly CI Pipeline <ci@company.com>
4 Date:    Wed Apr 19 12:01:38 2023 +0200
5
6     fix php-coding-standard with ECS
7
8  512 files changed, 1454 insertions(+), 1454 deletions(-)
```

1450 Changes in 500 Files. From one rule.

```
$services→set(TrailingCommaInMultilineFixer::class);
```

# What's next

Improvements already in place:

- Integration in MRs and Daily Schedule
- **75 Rules** in our ECS Config
- "Simplified" the **.gitlab-ci.yml**
- `eslint --fix`
- Twig-CS-Fixer

Future Work

- Rector?
- Finally changing our indentation 🙄

# Pros & Cons

- + Centralized config
- + Runs always
- + Works great as a team
- + Public feedback in MRs
- + No local setup required
- Committing from GitLab CI is weird
  - Lots of bash in `.gitlab-ci.yml`
  - Nothing like Github Actions 🙄
  - `$GIT_ACCESS_TOKEN` expires
- Duration
  - Our Pipeline takes 10-15 Mins

# Links

ECS Fixer: <https://github.com/easy-coding-standard/easy-coding-standard>

PHP CS Fixer Rules: <https://cs.symfony.com/doc/rules/index.html>

Twig CS Fixer: <https://github.com/VincentLanglet/Twig-CS-Fixer>

ESLint: <https://eslint.org/>



# The inspirational Slide

- Start doing this :-)
- It's pretty easy and super useful
- Keep coming to these meetups

# Bonus: Ignore Commits in `git blame`

Ignore large change sets with `--ignore-revs-file` / `blame.ignoreRevsFile`

```
1 cat .git-blame-ignore-revs
2 1a16ebc32598faada074e0af12a6a698d2964a5e # optional comment
3 09f9eb73b6b7f6d3dcb20ded30c118d2c8181fa2 # e.g. "run ECS rule CurlyBracesPositionFixer"
4 2da6a13a43b5d7b9c381eb24b3e1a393da898176 # or "convert indentation to tabs"
5
6 git config blame.ignoreRevsFile .git-blame-ignore-revs
```



CLI



PhpStorm



GitLab