

Improving MediaWiki

What to do when you're new?

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What & why?



What?

- **find...**
 - ...simple & small **things to do** in MW code
- **using...**
 - ...code style checks
 - ...static code analysis
 - ...Phabricator tasks

Why?

- get...
 - ...insights in the MW core code
 - ...get used to processes
 - ...get things done
 - ...get motivated
 - ...get satisfied

Why?

- without...
 - ...being an uber hacker
 - ...having all the knowledge
 - ...having all the time

Why?

- because...
 - ...always something to do
 - ...start with little things
 - ...you can always help
 - ...your help is appreciated

What not?



What not?

- Git / [Git Review](#) / [Gerrit](#)
- [Composer](#) / [Node.js](#) / [NPM](#)
- [Phabricator account](#)
- [Gerrit account](#)
- [Local MediaWiki installation](#)*

*see *Install Party for newcomers* - 4pm Ballroom West (Lvl 4)

Tiny things: Code Style



CodeStyle

- [MW coding conventions](#)
- linters to autocheck code style
 - CSS [stylelint](#) (npm & [grunt](#))
 - JS [eslint](#) (npm & grunt)
 - PHP [phpcs](#) (composer)

CodeStyle - find issues

- checks pass - no issues
- however...
 - look for disabled checks
 - re-enable these checks
 - re-run tests

Stylelint

\$ npm update

\$ grunt stylelint

- (disabled) rules: .stylelintrc
- extends: [stylelint-config-wikimedia](#)

-> find disabled rules in project: Ctrl-F 'stylelint-disable'

Eslint

\$ npm update

\$ grunt eslint

- (disabled) rules: .eslintrc.json
- extends [eslint-config-wikimedia](#)

-> find disabled rules in project: Ctrl-F 'eslint-disable'

PHPCS

\$ composer update

\$ composer phpcs

\$ composer phpcs {path}

- (disabled) sniffs: phpcs.xml
- extends: [mediawiki-codesniffer](#)

PHPCS

- disabled sniffs in phpcs.xml config
 - `<exclude name=" ...`
 - `MediaWiki.Commenting.FunctionComment.MissingParamName`
 - `MediaWiki.Commenting.IllegalSingleLineComment`
- disabled sniffs in code
 - `@codingStandardsIgnore`



**Next Level:
Have Some Phan!**

Phan

- [Phan](#)
 - static code analysis
 - look for common issues
 - PHP \geq 7.0
- [Phan and MW](#)
- fixing Phan issues [T153252](#)

Phan - rules & issues

- rules: tests/phan/config.php
 - disabled rules: 'suppress_issue_types'
- workflow
 - uncomment disabled rule
 - run phan
 - look at tests/phan/issues/latest

Phan - easy issues

- PHPDoc issues:
 - PhanParamSignatureMismatch
 - PhanTypeMismatchDeclaredParamNullable
 - PhanTypeMismatchReturn
 - ...

Phan - maybe easy

- deprecated methods:
 - PhanDeprecatedFunction
 - see deprecated func. code
 - see deprecated func. doc



**More confident?
Get Phab Task!**

Phabricator - find tasks

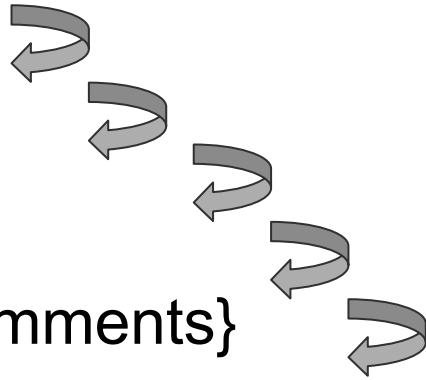
- find tags & projects
 - [Easy](#)
 - Open Tasks
 - [Need-volunteer](#)
 - Open Tasks
- unassigned!

Found something!
And now?



Workflow

- claim task
- fix issue
- commit & push
- get reviews
- {address review comments}
- get a +2



Fixing issue & commit

- check code style

\$ composer test {path}

- [commit and push with gerrit](#)
- add task # (Phabricator only)
 - e.g.: Bug: T172102

Get reviews & help

- add / ping people
- see project members on Phabricator
- tutorial [Getting reviews](#)
- ask on [IRC](#)

- address comments & update your patches

Well done! +2



Questions?



Follow up

- CFisch_WMDE @ IRC
- find extensions
 - <https://www.mediawiki.org/wiki/Special:Version>
- [How to become a MediaWiki hacker](#)