

# Best practice with composer

**Georg Ringer**  
gr@studiomitte.com

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# Georg Ringer



# TYPO3 since “yes I am that old”

# TYPO3 Core Team, TYPO3  
Security Team

# working at

- Studio Mitte
- Freelancer

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# *Motivation*

# *Commands for daily usage*

# *Composer scripts*

# Composer scripts

- ❖ Entrypoint for all kind of commands
  - ❖ Used by
    - Developers
    - Pipelines
  - ❖ Keep script name but change code behind
-

# Composer scripts II

```
"scripts": {  
    "rector": [  
        "./bin/rector process --config ./Build/rector/rector.php --dry-run"  
    ],  
    "cs": [  
        "PHP_CS_FIXER_IGNORE_ENV=1 ./bin/php-cs-fixer fix -v..."  
    ],  
    "check": [  
        "@cs",  
        "@phpstan"  
    ]  
}
```

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# Composer scripts III

```
"scripts": {  
    "example1": [  
        "@composer install"  
    ],  
    "example2": [  
        "@php script.php"  
    ],  
    "example3": [  
        "command-with-args @additional_args && do-something-else --here"  
    ]  
},
```

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# Composer scripts IV - Events

```
"scripts": {  
    "pre-autoload-dump": [  
        "@php -r \"file_exists('.env') || copy('.env.local', '.env')\""   
    ]  
},
```

- pre/post-install-cmd
  - pre/post-update-cmd
  - pre/post-autoload-dump
  - ...
-

# Using it for

- Tools:
    - cs/csfix
    - phpstan
    - psalm/psalmfix
    - rector/rectorfix
  - bin/typo3
    - Extension:setup
  - Tests
    - Unit/Functional
  - Checks
-

# *Composer patches*

# Composer patches

- ❖ Patch for any composer package
    - TYPO3 Core
    - TYPO3 Extension
    - ...
  - ❖ to
    - add merged but not released changes (bugfixes, features)
    - add custom bugfixes, features
  - ❖ Alternative to XCLASS
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# cweagans/composer-patches

```
"extra": {  
    "patches": {  
        "typo3/cms-redirects": {  
            "allow redirects from other domains" : "./patches/file.patch"  
        },  
        "extcode/cart": {  
            "fix permissions" : "https://github.com/.../cart/commit/96ea.patch"  
        }  
    },  
    "enable-patching" : true,  
    "composer-exit-on-patch-failure" : true  
},
```

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## Good to know

- ❖ Creating patch
    - PhpStorm with Local history > Create patch (check Base path!)
    - GitHub PR: add “.patch” to URL
  - ❖ Content of linked patch files of Pull Requests can change!!
  - ❖ Setting “`composer-exit-on-patch-failure`”: `true`”
-

# ***Normalize composer.json***

# Normalize composer.json

```
composer req ergebnis/composer-normalize
```

- ❖ Keep the structure the same within the team over all projects
- ❖ Just as CS-Fixer for PHP

*=> composer normalize*

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# *License checks*

# Why?

- Raise awareness
  - Licenses are especially important in **Open-Source** world
  - Variant chaos
    - TYPO3 Core: GPL 2
    - Symfony: MIT
    - phpunit/php-code-coverage: BSD-3-clause
    - yoast-seo-for-typo3/yoast\_seo: GPL 3 or later
  - No license compatibility check
  - No replacement of checking e.g. by a lawyer
-

# Pimcore

## Why GPLv3 No Longer Fits

The **GPLv3** was designed to protect software freedom through strong copyleft obligations. However, these same protections often backfire in enterprise environments:

- They create legal uncertainty.
- They require extensive audits and approvals.
- They risk "license contamination" – where proprietary code may unintentionally become subject to open-source disclosure.

Legal and procurement teams frequently push back on GPLv3, which can slow or even block digital transformation efforts. As new regulations (like **NIS2** in Europe) require clearer software governance, these issues are only growing. For many organizations, the message from legal teams is simple: **"No GPL, no go."**

[pimcore.com/en/resources/blog/breaking-free-pimcore-says-goodbye-to-gpl-and-enters-a-new-era-with-pocl](https://pimcore.com/en/resources/blog/breaking-free-pimcore-says-goodbye-to-gpl-and-enters-a-new-era-with-pocl)

# composer license

Name: `studiomitte/project`

Version: `dev-main`

Licenses: `gpl-2.0`

Dependencies:

Name	Version	Licenses
<code>b13/container</code>	3.1.5	GPL-2.0-or-later
<code>b13/menus</code>	9999999-dev 1690788	GPL-2.0-or-later
<code>b13/menus</code>	dev-main 1690788	GPL-2.0-or-later
<code>bacon/bacon-gr-code</code>	v3.0.1	BSD-2-Clause
<code>bnf/phpstan-psr-container</code>	1.1.0	GPL-2.0-or-later
<code>christian-riesen/base32</code>	1.6.0	MIT
<code>clue/ndjson-react</code>	v1.3.0	MIT
<code>composer/class-map-generator</code>	1.6.0	MIT
<code>composer/pcr</code>	3.3.2	MIT
<code>composer/semver</code>	3.4.3	MIT
<code>composer/xdebug-handler</code>	3.0.5	MIT
<code>cweagans/composer-patches</code>	1.7.3	BSD-3-Clause
<code>dasprid/enum</code>	1.0.6	BSD-2-Clause
<code>doctrine/annotations</code>	2.0.2	MIT
<code>doctrine/dbal</code>	4.2.3	MIT
<code>doctrine/deprecations</code>	1.1.4	MIT

## Tool II

```
composer req \  
    metasyntactical/composer-plugin-license-check
```

### Features

- Allow-list
  - Deny-list
-

# composer check-licenses

Name	Version	License	Allowed to Use?
b13/container	3.1.8	GPL-2.0-or-later	no
b13/menus	dev-main 1690788	GPL-2.0-or-later	no
bacon/bacon-qr-code	v3.0.1	BSD-2-Clause	yes
bnf/phpstan-psr-container	1.1.0	GPL-2.0-or-later	no
christian-riesen/base32	1.6.0	MIT	yes
clue/ndjson-react	v1.3.0	MIT	yes
composer/class-map-generator	1.6.1	MIT	yes
composer/pcre	3.3.2	MIT	yes
composer/semver	3.4.3	MIT	yes
composer/xdebug-handler	3.0.5	MIT	yes
cweagans/composer-patches	1.7.3	BSD-3-Clause	yes
dasprid/enum	1.0.6	BSD-2-Clause	yes
doctrine/annotations	2.0.2	MIT	yes
doctrine/dbal	4.2.3	MIT	yes
doctrine/deprecations	1.1.5	MIT	yes
doctrine/event-manager	2.0.1	MIT	yes
doctrine/instantiator	2.0.0	MIT	yes
doctrine/lexer	3.0.1	MIT	yes
egulias/email-validator	4.0.4	MIT	yes
enshrined/svg-sanitize	0.20.0	GPL-2.0-or-later	no
ergebnis/composer-normalize	2.47.0	MIT	yes

# composer check-license

```
"scripts": {  
  "check": [  
    "@check-license",  
    "@cs",  
    "@phpstan"  
  ],  
  "check-license": [  
    "@composer check-licenses | grep ' no' | grep -v 'no (explicitly allowed)'\n    && { echo \"Error: Found invalid licenses! \"; exit 1; } || \n    echo \"Found only valid licenses! \"; exit 0"  
  ]  
},
```

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*Questions?*