NEOS Please wait while we install a system update

Updating Neos – Why, When and How

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Karsten Dambekalns

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Working on & with Neos since 2005... for 17 years...

More than a third of my life! 🍪



Why, When and How

Why?

Because you get new features and bug fixes.

When?

Whenever a new version is released.

How?

Read & follow instructions, test & deploy.





Thanks for listening

Any questions?

Just kidding...



Why should you update?

You benefit from fewer bugs, new features and better performance most of the time

Outdated versions will no longer receive support

Security fixes will no longer be done on old releases



Features to gain...

Greatly speed up node move actions

Due to an issue in how Doctrine 2. entities to commit) it recomputed n^2 change computations.

Node Presets

Atomic Fusion added to the core

Two years ago, Wilhelm and Martin introduced their JSX inspired packages around "Atomic

Fusion" in a blog nost

m

Fusion ma

This change ac used just to re

Many developers are familiar with the Sitegeist. Silhouettes package that allows integrators to specify presets that can be used across multiple node type definitions.

This feature is now part of the core functionality, and it can be used to centralize recurring configuration:

neantime and the Neos.Demo possibilities of AFX. packend, version 7 marks an

be flushed at or duplicate nd we added a izations for the ster publishing Trushing which resulted in 3 times

Lazy loading images

rowClass = Neos.Fusion:Match { @subject = \${q(node).property('co

The idea is based on the new match m

PSR 18 Http\Client

PSR 18 specifies a http clie

Image tags rendered with the Neos.Neos:ImageTag fusion prototype (or the ImageViewHelper from the Neos.Media package) will now be rendered with the loading attribute set to "lazy" by default leveraging modern browsers' power to defer loading of images until they are visible.

Read more about the loading attribute on MDN.

needs. With Flow 8 we support PSR 18 in the Neos\Flow\Http\Browser class and ensured that it can be injected as dependency. You can also inject the Psr\Http\ClientInterfaces directly into your code.

low 8 ts more

is to

also



Bugs to get rid of...

5.3 and up

• BUGFIX: Render labels of authentication providers 1

5.3 and up

- BUGFIX: Exclude "/sites"-node from dimension-migration 3
- BUGFIX: prevent failure for disabled superTypes 5 a special thanks to Dominik Jansen for your first contribution thank you so much!
- BUGFIX: Prevent disconnected N

 dime

 F 2 and up cont

5.3 and up contain

- BUGFIX: Only emit thumbnailCreated when successful 3
- BUGFIX: Persist Thumbnail using DBAL to avoid unique constraint errors 7
- BUGFIX: Check for the native PHP extension instead of the ImagineService, since ImageService is not used further in this generator. 2
- BUGFIX: backend message partials not found 1

7.0

7.0 and up also contain

- TASK: Address PHP 8 deprecation warnings 1
- BUGFIX: Remove unused formatting options 1

7.2

7.1 and up also contain

• TASK: Allow Neos.Fusion:Match to return a default value with a type other than string ③

7.3 also contains

• BUGFIX: Allow adding first asset collection again 5

-n-drop upload of assets in media browser 1 copying nodes from another dimension, you are only allowed to re-use the limension

v variable to search for identifier patterns by development-collection/pull/3429 4 anually by @jonnitto in https://github.com

BUGFIX: Don't skip childnodes when discarding nodes 1
BUGFIX: Prevent repeated queries for non existing nodes

new shortcut nodes to "parent" by

ent node in breadcrumb by @jonnitto in #3450

on-migration by @Nikdro in #3110

variable to search for identifier patterns by

nually by @jonnitto in #3526

third parameter in sort operation by @jonnitto in

reValidation from ContentRepository context" by

on tag by whaase-lablan in #3541



ned properties



SECURITY

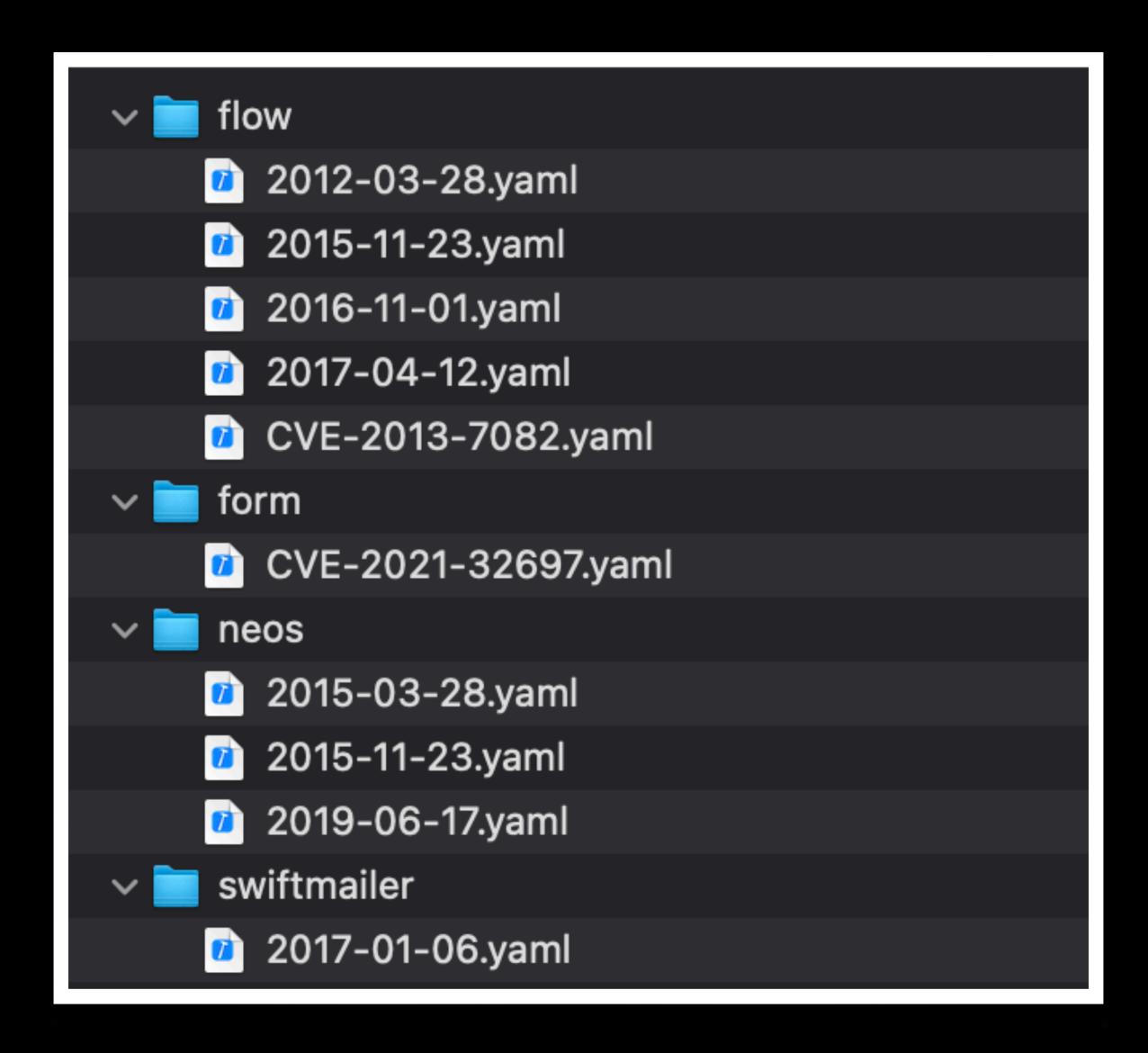






```
the Selection Find Years Goto Tools Project Preferences Help
                                                                                    height: 100%;
14 .block {
15 width: 100%;
16 height: 500px;
                                                                                                         's Sprachen / Bearbeiten
 17 margin: 0 auto !important;
 18 padding: 0 auto;
 Line-height: 0;
          font-family: 'Montserrat', sans-serif;
                                                                                   wenn der Nutzer einen Link auswählt, auch
          font-weight: 900;
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          text-align: left;
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           font-size: 3000%;
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           transform: scale(-1, 1);}
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                                                                                    eiger) über ein Element fährt
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            font-stze: 488
   "description" content "Tech-Texts by MB, the real
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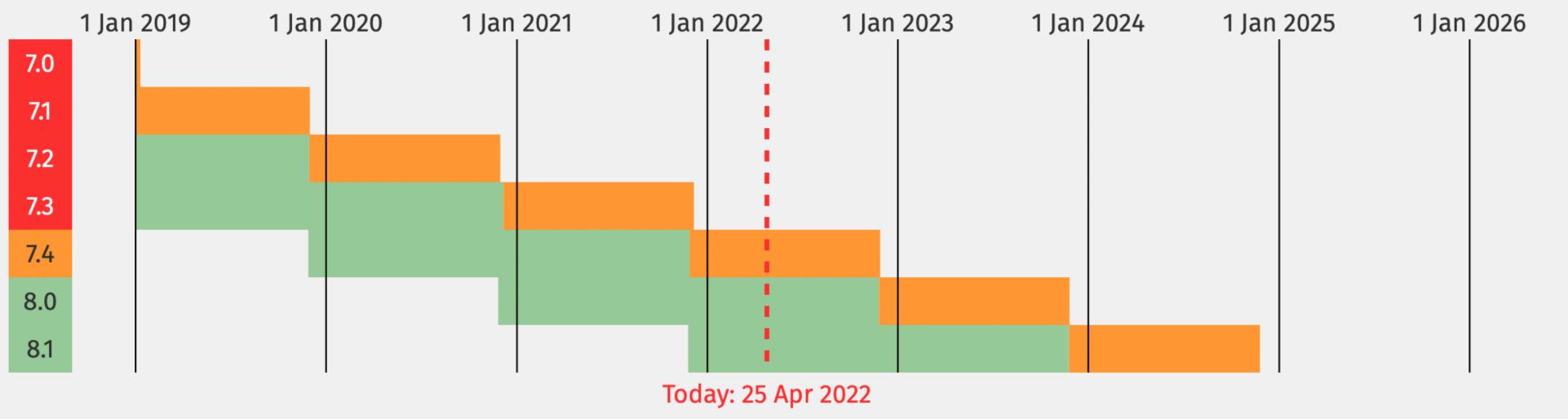
Other tools in your stack



Currently Supported Versions

| Branch | Initial Release | | Active Support Until | | Security Support Until | |
|------------|-----------------|-----------------------|----------------------|---------------------|------------------------|----------------------|
| <u>7.4</u> | 28 Nov 2019 | 2 years, 4 months ago | 28 Nov 2021 | 4 months ago | 28 Nov 2022 | in 7 months |
| 8.0 | 26 Nov 2020 | 1 year, 4 months ago | 26 Nov 2022 | in 7 months | 26 Nov 2023 | in 1 year, 7 months |
| <u>8.1</u> | 25 Nov 2021 | 5 months ago | 25 Nov 2023 | in 1 year, 6 months | 25 Nov 2024 | in 2 years, 6 months |

Or, visualised as a calendar:



Key

End of life

Active support A release that is being actively supported. Reported bugs and security issues are fixed and regular point releases are made.

Security fixes only A release that is supported for critical security issues only. Releases are only made on an as-needed basis.

A release that is no longer supported. Users of this release should upgrade as soon as possible, as they may be exposed to unpatched security vulnerabilities.

| Elasticsearch | EOL date | Maintained until |
|---------------|------------|------------------|
| 5.6.x | 2019-03-11 | 7.0.0 |
| 6.0.x | 2019-05-14 | 6.1.0 |
| 6.1.x | 2019-06-12 | 6.2.0 |
| 6.7.x | 2020-09-26 | 6.8.0 |
| 6.8.x | 2022-02-10 | 8.0.0 |
| 7.0.x | 2020-10-10 | 7.1.0 |
| 7.1.x | 2020-11-20 | 7.2.0 |
| 7.16.x | 2023-06-07 | 7.17.0 |
| 7.17.x | 2023-08-01 | 9.0.0 |
| 8.0.x | 2023-08-10 | 8.1.0 |
| 8.1.x | 2023-09-08 | 8.2.0 |



When should you update?

As often and as fast as possible!

Updating often keeps the routine drilled...

Staying up to date keeps the steps to take smaller!

Smaller steps mean lower risk

An update a day, keeps the downtime away



But... we updated once, and it broke our site!

As mentioned, in case something goes wrong:

- do test your updates on a staging instance
- have a current backup
- have a rollback-strategy

If things still break on production deployment, the cause is almost never the new version...



But... we don't need new stuff and things work fine

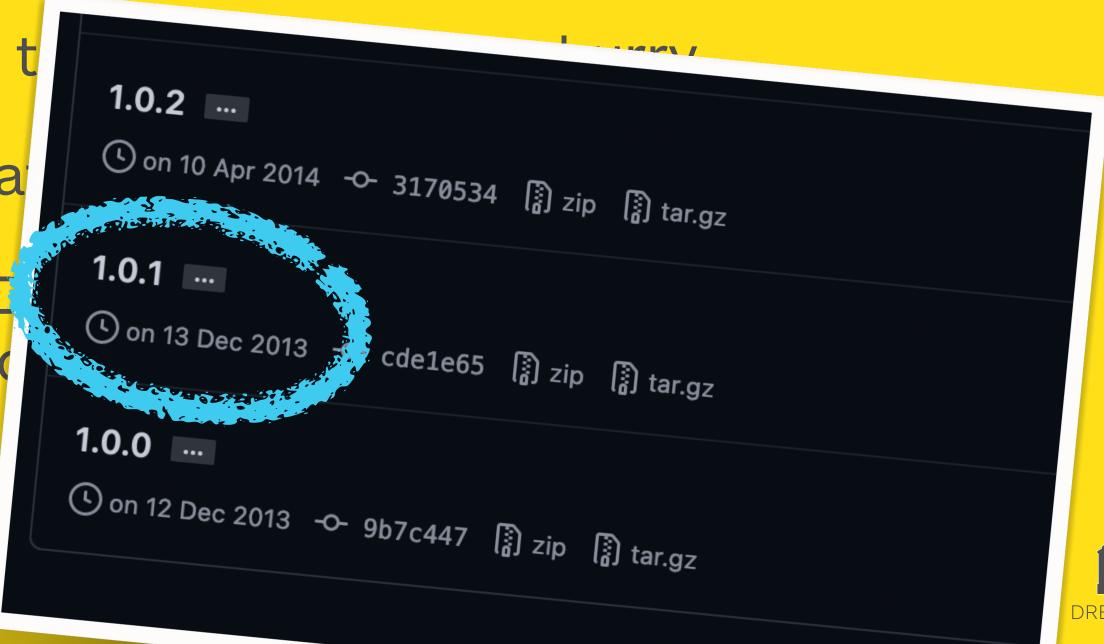
That is the "our small site works well" reasoning, which is fine until:

Your hosting provider emails you to inform you about the EOL of PHP 5.6, so your Neos 1.0 site will stop working

Some security issue requires you t

Related technology must be updated

 New features must be added (GI one wants to work with such old of



But... we run a missioncritical site!

Some sites cannot afford a downtime caused by a bug introduced by an update

But of course you don't deploy the update to your mission-critical site untested, do you?

And you do have a backup and a rollback strategy in place, don't you?

If you can't have a staging instance for testing, your mission can't be that critical...



But... we only use LTS versions!

Sometimes people claim they must only use LTS versions, because they are more reliable or receive better support

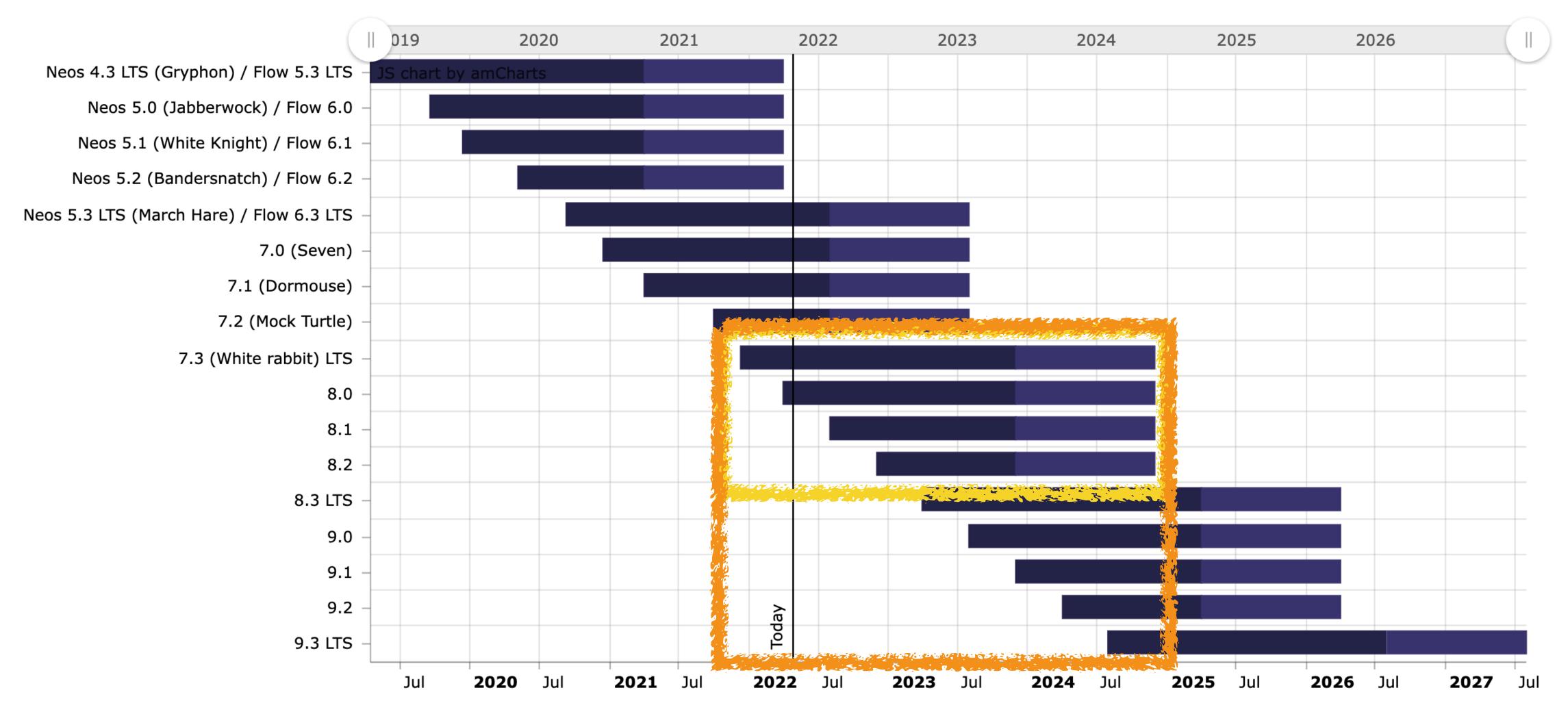
Reliability

Granted, new features may introduce bugs. But all supported branches receive all fixes – due to how we manage the source code

Support lifetime

Any versions "after" an LTS receive support for as long as the LTS version – due to how we manage the source code







How should you update?

The generic recipe is:

- read release notes
- adjust composer.json, if needed
- do a dry-run of composer update, check results
- do composer update, commit result
- run core migrations, check result, adjust as needed
- run database migrations
- test, test again, commit, deploy to staging, test, deploy to production



Types of releases



Patch-level releases

Must never be breaking, only contain bugfixes

Might add new issues due to a buggy bugfix, happens rarely, though

Usually about an hour of work





Minor releases

Add features and contain all the features and fixes of the previous minor release(s)

Must never be breaking, but new features may still have bugs (more probably in a x.y.0 release)

Could take longer. If new features need to be enabled or configured, even a few hours, depending on the complexity of your site

Might need a database migration and/or new configuration

A bit more testing than for a patch-level release is advisable



Major releases

Add features, contain features and fixes of the previous minor release(s) and may have breaking changes

Probably need adjustments to your site's code and new (major) versions of used extensions

Probably need a database migration and configuration changes

Could require updated infrastructure (PHP or Elasticsearch version, ...)

Needs the most testing of all types of releases





Approaching an update

Updating to a new version can always be done "in one go", you do not need to upgrade to each version in between

But you always need to read the release notes of the full range of versions you cover in your update

Check your dependencies, if needed adjust to allow newer packages

Collect a list of (breaking) changes that need attention



Packages needing a dependency adjustment

Sometimes you must raise the allowed version of dependencies, e.g.

- flownative/google-cloudstorage 5.2 vs 5.3
- psmb/splitadd 0.3 vs 0.4

Usually not a problem, if you use constraints like ^5.2 - then 5.3 is allowed, too. And patch-level releases should aways be allowed...

It's different for major versions (no surprise) and for 0.x versions!

Hint: use https://semver.madewithlove.com/ to check constraints!



```
$ composer update
Loading composer repositories with package information
Updating dependencies
Your requirements could not be resolved to an installable set of packages.

Problem 1
- neos/flow[4.3.0, ..., 4.3.x-dev] require php ~7.0 -> your php versio
- neos/flow[5.0.0, ..., 5.2.x-dev] require php ~7.1 -> your php versio
```

```
- neos/flow[4.3.0, ..., 4.3.x-dev] require php \sqrt{7.0} -> your php version (8.0.17) does not satisfy that requirement.
    - neos/flow[5.0.0, ..., 5.2.x-dev] require php ~7.1 -> your php version (8.0.17) does not satisfy that requirement.
    - neos/flow[5.3.0, ..., 5.3.x-dev] require php ^7.1 -> your php version (8.0.17) does not satisfy that requirement.
    - neos/flow[6.0.0, ..., 6.3.x-dev] require php ^7.2 -> your php version (8.0.17) does not satisfy that requirement.
    - neos/neos[7.0.0, ..., 7.1.0] require php ^7.3 -> your php version (8.0.17) does not satisfy that requirement.
    - Root composer.json requires acmecom/site * -> satisfiable by acmecom/site[dev-main].
    - Conclusion: don't install neos/neos 8.0.1 (conflict analysis result)
    - acmecom/site dev-main requires psmb/splitadd ^0.3 -> satisfiable by psmb/splitadd[0.3].
    - neos/neos[3.3.0, ..., 3.3.x-dev] require neos/flow ~4.3.0 -> satisfiable by neos/flow[4.3.0, ..., 4.3.x-dev].
    - neos/neos[4.0.0, ..., 4.0.x-dev] require neos/flow ~5.0.0 -> satisfiable by neos/flow[5.0.0, ..., 5.0.x-dev].
    - neos/neos[4.1.0, ..., 4.1.x-dev] require neos/flow \sim5.1.0 -> satisfiable by neos/flow[5.1.0, ..., 5.1.x-dev].
    - neos/neos[4.2.0, ..., 4.2.x-dev] require neos/flow \sim5.2.0 -> satisfiable by neos/flow[5.2.0, ..., 5.2.x-dev].
    - neos/neos[4.3.0, ..., 4.3.x-dev] require neos/flow ~5.3.0 -> satisfiable by neos/flow[5.3.0, ..., 5.3.x-dev].
    - neos/neos[5.0.0, ..., 5.0.x-dev] require neos/flow \sim6.0.0 -> satisfiable by neos/flow[6.0.0, ..., 6.0.x-dev].
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    - neos/neos[5.2.0, ..., 5.2.x-dev] require neos/flow \sim6.2.0 -> satisfiable by neos/flow[6.2.0, ..., 6.2.x-dev].
    - neos/neos[5.3.0, ..., 5.3.x-dev] require neos/flow \sim6.3.0 -> satisfiable by neos/flow[6.3.0, ..., 6.3.x-dev].
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5.0.0, ..., 5.3.x-dev, 7.0.0, ..., 7.3.x-dev].
    - Only one of these can be installed: typo3/neos[dev-master, 1.0.0-beta1, ..., 1.2.x-dev, 2.0.0-beta1, ..., 2.3.x-dev, 3.0.0, ..., 3.3.x-dev,
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    - Conclusion: don't install neos/neos 8.0.0 (conflict analysis result)
```

Use the option --with-all-dependencies (-W) to allow upgrades, downgrades and removals for packages currently locked to specific versions.



```
$ composer update
Loading composer repositories with package information
Undating dependencies

Your requirements could not be resolved to an installable set of packages.

Problem 1
```

neos/flow[4.3.0, ..., 4.3.x-dev] require php ~7.0 → your php version (8.0.17) does not satisfy that requirement.
 neos/flow[5.0.0, ..., 5.2.x-dev] require php ~7.1 → your php version (8.0.17) does not satisfy that requirement.

Your requirements could not be resolved to an installable set of packages.

Problem 1

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- neos/neos[5.2.0, ..., 5.2.x-dev] require neos/flow ~6.2.0 -> satisfiable by neos/flow[6.2.0, ..., 6.2.x-dev].
- neos/neos[5.3.0, ..., 5.3.x-dev] require neos/flow ~6.3.0 -> satisfiable by neos/flow[6.3.0, ..., 6.3.x-dev].
- psmb/splitadd 0.3 requires neos/neos ^7.0 || ^5.0 || ^4.0 || ^3.3 -> satisfiable by neos/neos[3.3.0, ..., 3.3.x-dev, 4.0.0, ..., 4.3.x-dev,
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4.0.0, ..., 4.3.x-dev, 5.0.0, ..., 5.3.x-dev, 7.0.0, ..., 7.3.x-dev, 8.0.0, 8.0.1, 8.0.x-dev], neos/neos[dev-master, 3.0.0, ..., 3.3.x-dev,
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DRESDEN 2022

```
$ composer update
Loading composer repositories with package information
Updating dependencies
```

Your requirements could not be resolved to an installable set of packages.

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Problem 1
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- neos/flow[4.3.0, ..., 4.3.x-dev] require php ~7.0 -> your php version (8.0.17) does not satisfy that requirement.
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- neos/neos[7.0.0, ..., 7.1.0] require php ^7.3 -> your php version (8.0.17) does not satisfy that requirement.
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Conclusions doubt install page/page 9 8 1 (conflict applysis pagult)

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```
neos/neos[5.1.0, ..., 5.1.x-dev] require neos/flow ~6.1.0 → satisfiable by neos/flow[6.1.0, ..., 6.1.x-dev].
neos/neos[5.2.0, ..., 5.2.x-dev] require neos/flow ~6.2.0 → satisfiable by neos/flow[6.2.0, ..., 6.2.x-dev].
neos/neos[5.3.0, ..., 5.3.x-dev] require neos/flow ~6.3.0 → satisfiable by neos/flow[6.3.0, ..., 6.3.x-dev].
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\$ composer update Loading composer repositories with package information Updating dependencies

Problem 1

with it.

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```

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3.3.x-dev, 4.0.0, ..., 4.3.x-dev, 5.0.0, ..., 5.3.x-dev, 7.0.0, ..., 7.3.x-dev].

```
- neos/neos[5.3.0, ..., 5.3.x-dev] require neos/flow ~6.3.0 -> satisfiable by neos/flow[6.3.0, ..., 6.3.x-dev].

- psmb/splitadd 0.3 requires neos/neos ^7.0 || ^5.0 || ^4.0 || ^3.3 -> satisfiable by neos/neos[3.3.0, ..., 3.3.x-dev, 4.0.0, ..., 4.3.x-dev, 5.0.0, ..., 5.3.x-dev, 7.0.0, ..., 7.3.x-dev].

- Unly one of these can be installed: typo3/neos[dev-master, 1.0.0-betal, ..., 1.2.x-dev, 2.0.0-betal, ..., 2.3.x-dev, 3.0.0, ..., 3.3.x-dev, 4.0.0, ..., 4.3.x-dev, 5.0.0, ..., 5.3.x-dev, 7.0.0, ..., 7.3.x-dev, 8.0.0, 8.0.1, 8.0.x-dev], neos/neos[dev-master, 3.0.0, ..., 3.3.x-dev, 4.0.0, ..., 4.3.x-dev, 5.0.0, ..., 5.3.x-dev, 7.0.0, ..., 7.3.x-dev, 8.0.0, 8.0.1, 8.0.x-dev]. neos/neos replaces typo3/neos and thus cannot coexist
```

- acmecom/site dev-main requires neos/neos ^8.0 -> satisfiable by neos/neos[8.0.0, 8.0.1, 8.0.x-dev].
- Conclusion: don't install neos/neos 8.0.0 (conflict analysis result)

Use the option --with-all-dependencies (-W) to allow upgrades, downgrades and removals for packages currently locked to specific versions.



```
$ composer update
Loading composer repositories with package information
Updating dependencies
Your requirements could not be resolved to an installable set of packages.
Problem 1
```

```
Problem 1

- neos/flow[4.3.0, ..., 4.3.x-dev] require php ~7.0 -> your php version (8.0.17) does not satisfy that requirement.

- neos/flow[5.0.0, ..., 5.2.x-dev] require php ~7.1 -> your php version (8.0.17) does not satisfy that requirement.

- neos/flow[5.3.0, ..., 5.3.x-dev] require php ^7.1 -> your php version (8.0.17) does not satisfy that requirement.

- neos/flow[6.0.0, ..., 6.3.x-dev] require php ^7.2 -> your php version (8.0.17) does not satisfy that requirement.

- neos/neos[7.0.0, ..., 7.1.0] require php ^7.3 -> your php version (8.0.17) does not satisfy that requirement.

- Root composer.json requires acmecom/site * -> satisfiable by acmecom/site[dev-main].

- Conclusion: dop't install neos/neos 8.0.1 (conflict analysis result).

- acmecom/site dev-main requires psmb/splitadd ^0.3 -> satisfiable by psmb/splitadd[0.3].

- neos/neos[3.3.0, ..., 3.3.x-dev] require neos/flow ^4.3.0 -> satisfiable by neos/flow[4.3.0, ..., 4.3.x-dev].
```

- acmecom/site dev-main requires psmb/splitadd ^0.3 -> satisfiable by psmb/splitadd[0.3].

```
- neos/neos[5.3.0, ..., 5.3.x-dev] require neos/flow ~6.3.0 -> satisfiable by neos/flow[6.3.0, ..., 6.3.x-dev].
- psmb/splitadd 0.3 requires neos/neos ^7.0 || ^5.0 || ^4.0 || ^3.3 -> satisfiable by neos/neos[3.3.0, ..., 3.3.x-dev, 4.0.0, ..., 4.3.x-dev,
5.0.0, ..., 5.3.x-dev, 7.0.0, ..., 7.3.x-dev].
- Only one of these can be installed: typo3/neos[dev-master, 1.0.0-beta1, ..., 1.2.x-dev, 2.0.0-beta1, ..., 2.3.x-dev, 3.0.0, ..., 3.3.x-dev,
4.0.0, ..., 4.3.x-dev, 5.0.0, ..., 5.3.x-dev, 7.0.0, ..., 7.3.x-dev, 8.0.0, 8.0.1, 8.0.x-dev], neos/neos[dev-master, 3.0.0, ..., 3.3.x-dev,
4.0.0, ..., 4.3.x-dev, 5.0.0, ..., 5.3.x-dev, 7.0.0, ..., 7.3.x-dev, 8.0.0, 8.0.1, 8.0.x-dev]. neos/neos replaces typo3/neos and thus cannot coexist with it.
```

- acmecom/site dev-main requires neos/neos ^8.0 -> satisfiable by neos/neos[8.0.0, 8.0.1, 8.0.x-dev].
- Conclusion: don't install neos/neos 8.0.0 (conflict analysis result)

Use the option ——with—all—dependencies (—W) to allow upgrades, downgrades and removals for packages currently locked to specific versions.





madewithlove Packagist Semver Checker

Learn more about version constraints

psmb/splitadd

^0.3

stable

Results for psmb/splitadd:^0.3

0.3

0.2

0.1.1

0.1

dev-master

Satisfied?

composer require psmb/splitadd:"^0.3"



\$ composer outdated

neos/buildessentials

Info from https://repo.packagist.org: #StandWithUkraine

Color legend:

| | pa | ıtch | or | minor | release | available | 9 – | update | recommended | d |
|--|----------------------|------|----|-------|---------|-----------|------------|--------|-------------|---|
|--|----------------------|------|----|-------|---------|-----------|------------|--------|-------------|---|

7.3.0

| · | | | |
|---|-----------------|-------------------|--|
| – <mark>major</mark> release available – update p | oossible | | |
| carbon/condition | 1.1.5 | 2.0.0 | This package provides some fusion helper for mak |
| carbon/includeassets | 5.4.0 | 5.5.0 | Include your assets (css, js) in an easy way int |
| carbon/notification | 2.3.0 | 2.3.1 | This package provides a tiny fusion helper for n |
| composer/composer | 2.3.0 | 2.3.5 | Composer helps you declare, manage and install d |
| composer/semver | 3.3.1 | 3.3.2 | Semver library that offers utilities, version co |
| doctrine/common | 3.2.2 | 3.3.0 | PHP Doctrine Common project is a library that pr |
| doctrine/dbal | 2.13.8 | 3.3.5 | Powerful PHP database abstraction layer (DBAL) w |
| doctrine/migrations | 3.4.1 | 3.5.0 | PHP Doctrine Migrations project offer additional |
| doctrine/orm | 2.11.2 | 2.12.1 | Object-Relational-Mapper for PHP |
| doctrine/persistence | 2.4.1 | 3.0.0 | The Doctrine Persistence project is a set of sha |
| firebase/php-jwt | v5.5.1 | v6.1.2 | A simple library to encode and decode JSON Web T |
| flownative/google-cloudstorage | 5.2.3 | 5.3.0 | This Flow package allows you to store assets (re |
| flowpack/cachebuster | 1.1.0 | 1.2.0 | Cache buster for static resources in Neos |
| flowpack/googleapiclient | 1.2.0 | 1.3.0 | Google Api Client provider for Neos Flow |
| flowpack/listable | 3.5.0 | 3.5.1 | Tiny extension for listing things |
| flowpack/neos-dimensionresolver | 2.0 | 2.1 | A support package for Neos CMS that allows for a |
| google/apiclient | v2.12.1 | v2.12.4 | Client library for Google APIs |
| google/apiclient-services | v0.241.0 | v0.246.0 | Client library for Google APIs |
| google/auth | v1.19.0 | v1.21.0 | Google Auth Library for PHP |
| google/cloud-core | v1.44.1 | v1.44.2 | Google Cloud PHP shared dependency, providing fu |
| google/cloud-storage | v1.1.5 | v1.26.2 | Cloud Storage Client for PHP |
| guzzlehttp/psr7 | 1.8.5 | 2.2.1 | PSR-7 message implementation that also provides |
| imagine/imagine | 1.3.1 | 1.3.2 | Image processing for PHP 5.3 |
| jcupitt/vips | v1.0.9 | v2.0.2 | A high-level interface to the libvips image proc |
| jonnitto/plyr | 2.7.0 | 3.0.0 | Plyr.io for Neos.io |
| justinrainbow/json-schema | 5.2.11 | 5.2.12 | A library to validate a json schema. |
| acmecom/site | dev-development | Neos site package | for the Acmecom Site |
| monolog/monolog | 2.4.0 | 2.5.0 | Sends your logs to files, sockets, inboxes, data |
| neos/behat | 7.3.0 | 8.0.0 | Behat support package for Neos Flow |
| | | | |

8.0.0

Neos Flow Build Toolchain Essentials

DRESDEN 2022

```
$ composer why psmb/splitadd
acmecom/site dev-development requires psmb/splitadd (^0.3)
```



Doing the update

As soon as your dry-run update works and gives reasonable results

Update without the dry-run flag and commit the changes to the manifest(s) and lockfile

Run core migrations on your own packages, check results, clean up as needed



Clean up after core:migrate

Here's what I do after running core migrations:

- check the commits that were created
- soft-reset the repository to the latest upstream commit
- adjust changes as needed
- commit the changes in one commit

That way it's easier for me to keep things clean and clear



\$ git log |head -n 37

commit 8c264b9dc62a5064facf2df66b65a239f89b8d84

Author: Karsten Dambekalns <karsten@dambekalns.de>

Date: Thu Apr 28 09:47:54 2022 +0200

TASK: Apply migration Neos.Fusion-20220326120900 to package "Acmecom.Site"

Expand Neos.Fusion-FusionObjects without namespace to fully qualified names

Note: This migration did not produce any changes, so the commit simply marks the migration as applied. This makes sure it will not be applied again.

\$ git log |head -n 37
commit 978d876f6a5f616f35fa5ee185b6daa9cd5fc6c1
Author: Karsten Dambekalns <karsten@dambekalns.de>

Date: Thu Apr 28 09:47:46 2022 +0200

Apply core migrations to package "Acmecom.Site"

The migrations did not produce any changes, so the commit simply marks them as applied. This makes sure they will not be applied again.

commit c7d878be8f01e0c4045f3f5c8ee5d4080f03e2f6
Author: Karsten Dambekalns <karsten@dambekalns.de>

Date: Thu Apr 28 00.47.51 2022 10200

TASK: Apply

\$ git rebase -i origin/development

Adjust "Set

(see https://github.com/neos/flow-development-collection/issues/2/42)

Note: This migration did not produce any changes, so the commit simply marks the migration as applied. This makes sure it will not be applied again.

commit 744cfa0000b98d3de04dbf39e8670c0b9c292956
Author: Karsten Dambekalns <karsten@dambekalns.de>

Date: Thu Apr 28 09:47:46 2022 +0200

TASK: Apply migration Neos.Neos-20220318111600 to package "Acmecom.Site"

Replace legacy content cache tag definitions in Fusion

Note: This migration did not produce any changes, so the commit simply marks the migration as applied. This makes sure it will not be applied again.



Further adjustments

Core migrations usually adjust the "easy" stuff, but some things cannot be automagically adjusted with reasonable effort

So some changes need to be done manually, examples for this are:

- Fusion
 removal of the default prototype generator
- Logging
 PSR-3 logger adjustments
- Fluid ViewHelpers
 no more render() arguments
- HTTP components
 use PSR middlewares instead



```
@@ -1,7 +1,13 @@
    prototype(Neos.NeosIo:ButtonDimensionAware) < prototype(Neos.Neos:Content) {</pre>
         templatePath = 'resource://Neos.NeosIo/Private/Templates/NodeTypes/ButtonDimensionAware.html'
  2
  3
        @context.linkedNode = ${q(node).property('linkedNode')}
2 4
        @context.setLanguage = ${q(node).property('language')}
3 5
4 6
        buttonLabel = ${q(node).property('buttonLabel')}
  7
        openInNewTab = ${q(node).property('openInNewTab')}
  8
        alignment = ${q(node).property('alignment')}
  9
        style = ${q(node).property('style')}
 10
         link = Neos.Neos:NodeUri {
5 11
            node = Neos.Fusion:Case {
6 12
                 withDimension {
7 13
   @@ -0,0 +1,8 @@
   prototype(Neos.NeosIo:Icon) < prototype(Neos.Neos:Content) {</pre>
       templatePath = 'resource://Neos.NeosIo/Private/Templates/NodeTypes/Icon.html'
       alignment = ${q(node).property('alignment')}
```

icon = \${q(node).property('icon')}

size = \${q(node).property('size')}

color = \${q(node).property('color')}



```
13 13 use Neos\Flow\Http\Uri;
   14 use Neos\Flow\Log\Utility\LogEnvironment;
   15 use Psr\Log\LoggerInterface;
14 16
15 17 /**
16 18 * Abstract base class for api connectors.
      @@ -54,9 +56,9 @@ abstract class AbstractApiConnector
54 56
          /**
           * @Flow\Inject
55 57
56 58
           * @var \Neos\Flow\Log\SystemLoggerInterface
57
           * @var LoggerInterface
   59
           */
58 60
          protected $systemLogger;
59
          protected $logger;
   61
60 62
          /**
61 63
           * Creates a valid cache identifier.
62 64
      @@ -120,8 +122,8 @@ abstract class AbstractApiConnector
              $response = $browser->request($requestUri, 'GET');
20 122
21 123
              if ($response->getStatusCode() !== 200) {
22 124
                  $this->systemLogger->log(sprintf('Get request to Api failed with code "%s"!', $response->getStatus()),
23
                      LOG_ERR, 1453193835);
                  $this->logger->error(sprintf('Get request to Api failed with code "%s"!', $response->getStatus()),
  125
                       LogEnvironment::fromMethodName(__METHOD__));
  126
25 127
26 128
```

```
@@ -19,19 +19,31 @@ use Neos\FluidAdaptor\Core\ViewHelper\AbstractViewHelper;
19 19 */
20 20 class RelativeDateViewHelper extends AbstractViewHelper
21 21 {
         /**
  22
          * Initialize arguments
  23
  24
          * @return void
  25
          * @api
  26
          */
  27
         public function initializeArguments()
  28
  29
              $this->registerArgument('date', \DateTimeInterface::class, 'the URI that will be put in the href attribute of the rendered
  30
              $this->registerArgument('compact', 'string', 'Open the linked document in new Tab', false, false);
  31
  32
  33
         /**
22 34
           * Renders a DateTime formatted relative to the current date.
23 35
          * Shows the time if the date is the current date.
24 36
          * Shows the month and date if the date is the current year.
25 37
          * Shows the year/month/date if the date is not the current year.
26 38
27 39
           * @param \DateTime $date
28
           * @param boolean $compact
29
           * @return string an <img...> html tag
30 40
          * @throws \InvalidArgumentException
31 41
          */
32 42
          public function render(\DateTime $date = null, $compact = false)
33
          public function render()
  43
34 44
              $date = $this->arguments['date'];
  45
              $compact = $this->arguments['compact'];
   46
              if ($date === null) {
35 47
                  $date = $this->renderChildren();
36 48
                                                                                                                                           RESDEN 2022
37 49
```

```
@@ -1,21 +1,14 @@
     Neos:
       Flow:
         http:
3 3
           chain:
              'process':
                chain:
                 # move redirect component before routing, to make redirects work even if
                 # there is still a visible node "behind the URL"
                  redirect:
                    position: 'before routing'
10
                  'dynamicBaseUri':
                    position: 'before routing'
12
                    component: 'Acmecom\Site\Http\Component\DynamicBaseUriComponent'
13
                    componentOptions:
14
                      'bareHost': '%env:PROXY_BARE_HOST%'
                      'pathPrefix':
16
                        '*': '/magazin'
                        'fr': '/magazine'
18
           middlewares:
             # move redirect component before routing, to make redirects work even if
             # there is still a visible node "behind the URL"
              'redirect':
                position: 'before routing'
   8
              'dynamicBaseUri':
                position: 'before routing'
  10
                middleware: 'Acmecom\Site\Http\Middleware\DynamicBaseUriMiddleware'
  11
           trustedProxies:
19 12
             headers:
20 13
                host: 'X-Forwarded-Server'
21 14
```

class DynamicBaseUriComponent implements
ComponentInterface



class DynamicBaseUriMiddleware implements
MiddlewareInterface



public function handle(ComponentContext
\$componentContext)

public function process(ServerRequestInterface
\$request, RequestHandlerInterface \$handler):
ResponseInterface



If you get stuck

Finally, if you get stuck with an update even though you were wellprepared

- Search for your issue, chances are someone else found a solution already
- Ask the community for help on Slack or <u>discuss.neos.io</u>
- Ask your agency for help
- If you are an agency, ask me or my company for help 😇



Test and deploy

Now test your site. You may

- Run unit and functional tests if you have them
- Run a link checker on the site
- Check logs for error messages and warnings
- Click around and manually test important or prominent features

If all is well, deploy and be happy



Problems after an update

If some new problems appear after an update – ideally found before going into production – there are two possible causes:

You made a mistake.

Double-check your changes and try to verify against the previous version.

You found a bug.

Check the issue tracker for a new report that looks like your problem



Recap: Why, When & How

Why?

Because you get new features and bug fixes.

When?

Whenever a new version is released.

How?

Read & follow instructions, test & deploy.





Done. Questions!



Thanks for listening!

Further reading:

https://www.flownative.com/en/blog/neoscon-2022-updating-neos.html

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- <u>@kdambekalns</u>
- karsten@flownative.com



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