

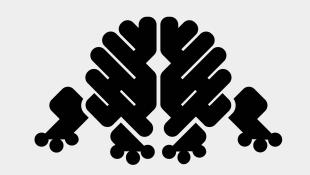
TYPO3 12

TUGA 11/2022



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- Core Developer
- Extension Developer



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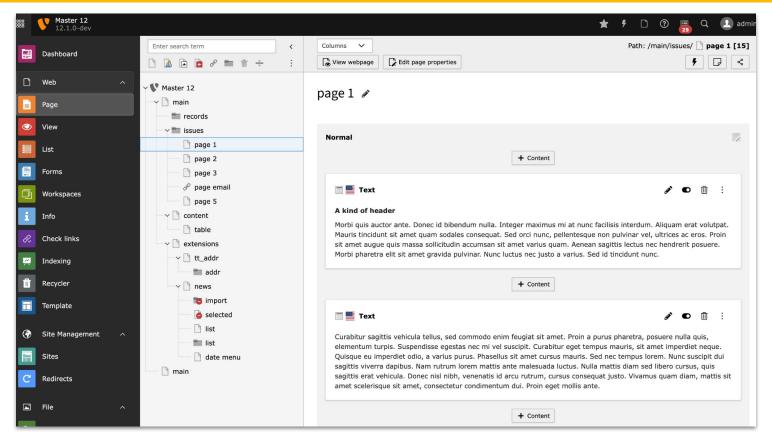


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Improved backend (WIP)



Facts

Requirements

- PHP 8.1+
- MySQL 8, MariaDB 10.3+, PostgreSQL 10+
- symfony/ * ^6
- doctrine/dbal ^3
- ckeditor/ckeditor ^5
- composer ^2.4

Releases

- 12.0.: 4. October
- 12.1.: 6. December
- 12.2.: 7. February
- 12.3.: 28. March
- LTS 12.4.: 25. April



Breaking



... the usual suspects ...

TYPO3

- Check rst files for 11/12
- Check deprecation log in 11.5
- Check Upgrade module in Install Tool
 - Extension Scanner
 - TCA Migrations
- Check deprecation hints of your IDE



PHP

- Migrate to PHP 8.0/**8.1** with your TYPO3 11.5 now to ease the pain
 - Docs <u>php.net/manual/en/migration80.incompatible.php</u>
- BTW: EOL PHP 7.4 28.11.2022



Personal most important breakings I

- doctrine/dbal changes
- Removal of hooks
- TCA changes
- Return type of Extbase based actions
- [Todo ckeditor]
- Removal of switchable controller actions





Changed structure

```
- typo3conf/
LocalConfiguration.php → config/system/settings.php
AdditionalConfiguration.php → config/system/additional.php
```

- typo3/sysext → vendor/typo3/
- packages/* → vendor/*
- typo3conf/ext/ → vendor/*
- EXT:*/Resources/Public → public/_assets/<hash>

```
in v11: composer require typo3/cms-composer-installers:4.0.x@dev
```

→ b13.com/core-insights/typo3-and-composer-weve-come-a-long-way

```
t3-12 ~/projects/priv/t3-12
> ____.ddev
config
  sites

✓ Imain

         config.yaml

✓ Image: System

      additional.php
      settings.php
> packages

∨ Impublic

  assets
      1ee1d3e909b58d32e30dcea666dd3224
      2a58d7833cb34b2a67d37f5b750aa297
      50f05254cd959726af926202744dae53
      081fa96a07de1dccb64a8a83e1567439
    > 509a7bacf53455dd0e8bc14336b58c3d
    6104b7f46d656dcf567ead154886bf37
    > 14525e5262e0d22d75f200ddba75ef39
    > a3db3388ff457cff602f74c897474ebb
      2955fcfcb9896da983b81b38f5913951
      ddd1dcdf2ba9efa5a1cbf7e00411594
      f6ef6adaf5c92bf687a31a3adbcb0f7b
      faac6516a43fc0a1b5f92bf624a4e449
  > illeadmin

✓ Image: Viving type 3

      index.php
      install.php

✓ Image: vpo3conf

■ ENABLE_INSTALL_TOOL

  > typo3temp
    index.php
```

Features



Personal picked Features I

- Lots of new events
- SlidingWindowPaginationto replace EXT: numbered pagination
- Automatic inclusion of page TSconfig of extensions Configuration/page.tsconfig
- Registration via service configuration
 - ContentObjects
 - Linkvalidator link types
 - ...
- Simplified EXT:backend ModuleTemplate API



Personal picked Features II

- Add SiteLanguageProcessor
- New TCA types: folder, password, link, email, number, datetime, color
- Live search with keyboard navigation
- Password policies
- Respect attribute approved in XLF files
- Improved TypoScript Template Analyzer
- Native JSON DB type
- + lots of other cool features!



Upcoming EXT:reactions

This feature adds the possibility to send incoming webhooks to a TYPO3 instance.

With the new backend module, it is possible to configure the reactions triggered by any webhook.

A webhook is defined as an authorized POST request to the backend.

The core will provide a simple default reaction that can create records triggered and enriched by data from the caller.



Services, Events, yaml, ...

- This is how PHP applications are configured in 2022
- Makes it easier for new TYPO3 devs
- Makes it easier for TYPO3 devs to switch to other stacks
- Just stop ranting;)

```
TYPO3\CMS\Beuser\Controller\PermissionController: tags: ['backend.controller']
```

```
# Register all available content objects
    TYPO3\CMS\Frontend\ContentObject\TextContentObject:
      tags:
         - name: frontend.contentobject
          identifier: 'TEXT'
TYPO3\CMS\Backend\Search\LiveSearch\PageRecordProvider:
  tags:
    - { name: 'livesearch.provider', priority: 60 }
   TYPO3\CMS\Frontend\Aspect\FileMetadataOverlayAspect:
     tags:

    name: event.listener

         identifier: 'typo3-frontend/overlay'
```

method: 'languageAndWorkspaceOverlay'



PHP 8.1



Constructor promotion (PHP 8.0)

Before

```
class CustomerDTO
    public string $name;
    public string $email;
    public DateTimeImmutable $birth_date;
    public function __construct(
        string $name,
        string $email,
        DateTimeImmutable $birth date
    ) {
        $this->name = $name;
        $this->email = $email;
        $this->birth date = $birth date;
```

After

```
class CustomerDTO
{
    public function __construct(
        public string $name,
        public string $email,
            public DateTimeImmutable $birth_date,
        ) {}
}
```



Readonly properties (PHP 8.1)

```
class PostData {
   public function __construct(
      public readonly string $title,
      public readonly DateTimeImmutable $date,
   ) {}
}
```



Enums (PHP 8.1)

```
enum Status
{
    case DRAFT;
    case PUBLISHED;
    case ARCHIVED;
}
```

```
class BlogPost
{
    public function __construct(
        public Status $status,
    ) {}
}
```



Resources

- stitcher.io
- php.watch/versions
- www.youtube.com/@phpannotated
- blog.jetbrains.com/phpstorm/tag/php-8-2/



and now?



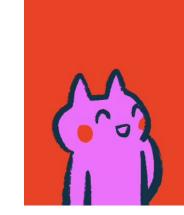
... and now?

Extension Development

- Compatibility for PHP 8.x
- [optionally drop support for PHP 7.4 and use features of PHP 8.x]
- You can start now with checking your extension against TYPO3 12.

No breaking changes expected anymore

- Support of TYPO3 11.5 + 12.x is possible
- Push early & public → you will get additional tests & PR for free



Site development

- Checkout v12 for new features & breaking changes
- Adopt your base site package
- Adopt your build pipeline
- Check for versions of extensions you need, e.g.
 - extensions.typo3.org/?tx_solr%5Bfilter%5D%5B0 %5D=typo3%3A12+LTS → 55 extensions
 - GitHub repositories, e.g. EXT:news with branch "11-12"
 - Report issues



Q&A

