

# TYP03 Version 9.5 – What's New

Summary of the new features, changes and improvements

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# TYPO3 Version 9.5 - What's New

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## TYPO3 Version 9.5 = TYPO3 v9 LTS

During a four weeks stabilization phase between the last intermediate version 9.4 and the new major version 9.5 (also known as "TYPO3 v9 LTS"), final elements of features were completed but nothing new was started.

This is to make sure that the LTS release is robust, stable and can power websites of all sizes and complexities, even those with thousands of pages.

Please see the [TYPO3 v9 LTS slides](#) for an overview of the changes in v9 LTS.

## Introduction

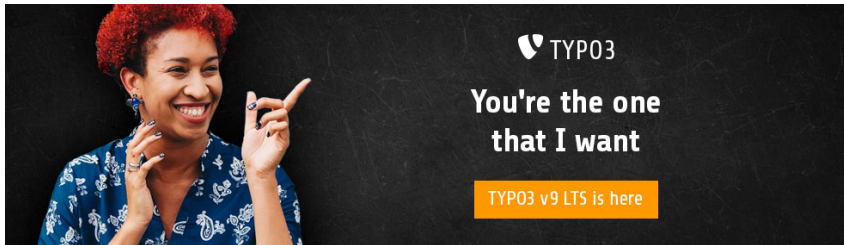
## The Facts

# Introduction

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## TYPO3 Version 9.5 - The Facts

- Release date: 02 October 2018
- Release type: LTS release (Long Term Support)



# Introduction

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## System Requirements

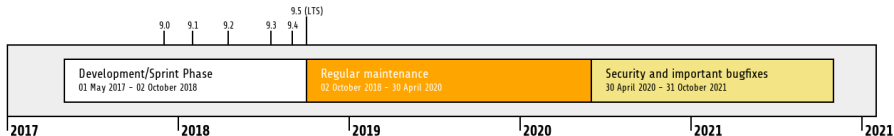
- PHP version 7.2 or higher
- PHP settings:
  - `memory_limit`  $\geq$  256M
  - `max_execution_time`  $\geq$  240s
  - `max_input_vars`  $\geq$  1500
  - compilation option `--disable-ipv6` must not be used
- Most database servers supported by **Doctrine DBAL** also work with TYPO3. Tested DB engines are for example:



# Introduction

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## Development, Release and Maintenance Timeline



- TYPO3 version 9.5 is a LTS Release (Long Term Support)
- Regular maintenance and bugfixes until March 2020
- Security and critical bugfixes until October 2021

## Extended Support

[TYPO3 GmbH](#) offers Extended Long Term Support (ELTS) for TYPO3 v9 LTS until October 2024.

# Introduction

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## TYP03 v9 Roadmap

Release dates and their primary focus:

- v9.0 12/Dec/2017 Install Tool and Page Tree Refactoring, Unified Page Translations
- v9.1 30/Jan/2018 Redirect Handling
- v9.2 10/Apr/2018 Site Handling
- v9.3 12/Jun/2018 SEO and URL Routing Preparations
- v9.4 04/Sep/2018 URL Routing for Pages
- v9.5 02/Oct/2018 LTS Preparation and Release

<https://typo3.org/article/typo3-v9-roadmap/>

<https://typo3.org/cms/roadmap/>

# Introduction

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## Installation

- Official *classic* installation procedure under Linux/Mac OS X (DocumentRoot for example `/var/www/site/htdocs`):

```
$ cd /var/www/site
$ wget --content-disposition get.typo3.org/9.5
$ tar xzf typo3_src-9.5.0.tar.gz
$ cd htdocs
$ ln -s ../typo3_src-9.5.0 typo3_src
$ ln -s typo3_src/index.php
$ ln -s typo3_src/typo3
$ touch FIRST_INSTALL
```

- Symbolic links under Microsoft Windows:
  - Use junction under Windows XP/2000
  - Use `mklink` under Windows Vista and Windows 7 and higher



# Introduction

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## Installation Using `composer`

- Installation using `composer` under Linux, Mac OS X and Windows 10:

```
$ cd /var/www/site/
```

```
$ composer create-project typo3/cms-base-distribution typo3 ^9
```

- Alternatively, create your custom `composer.json` file and run:

```
$ composer install
```

Further details and examples for `composer.json` files are available at:

<https://composer.typo3.org>

# Finalized Features

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## utf8mb4 on MySQL

- New TYPO3 instances use utf8mb4 on MySQL by default now
- This allows 4 byte unicode characters such as emojis
- Basic settings to use utf8mb4 in file LocalConfiguration.php:

```
'DB' => [  
    'Connections' => [  
        'Default' => [  
            'driver' => 'mysqli',  
            ...  
            'charset' => 'utf8mb4',  
            'tableoptions' => [  
                'charset' => 'utf8mb4',  
                'collate' => 'utf8mb4_unicode_ci',  
            ],  
        ],  
    ],  
],
```

# Finalized Features

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## Search Engine Optimization (SEO)

The following SEO features have been added since TYPO3 version 9.3:

- New [Page Title API](#) allows integrators and developers to influence what exactly is shown as the page title
- TYPO3 can generate [XML Sitemaps](#) now, with the capability to render different sitemaps per site and language
- Canonical links to pages are automatically added to prevent ranking penalties due to duplicate content for example
- In multi-language TYPO3 sites, `hreflang`-tags are added automatically

# Finalized Features

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## Static Routes

- Static routes can be configured on a per site basis
- This allows integrators to have different `robots.txt` files for each site in a multi-site installation for example
- Routes can be configured as top level files or as path
- Configuration is possible in TYPO3 backend or directly in YAML
- Two options are currently supported:
  - deliver static text
  - resolve a TYPO3 URL
- Resolving of static routes is implemented as a PSR-15 middleware

# Finalized Features

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## Symfony ExpressionLanguage

- The [Symfony ExpressionLanguage](#) component has been implemented for TYPOScript conditions (frontend and backend)

- Some examples:

```
[page["uid"] in 18..45]
# This condition matches, if current page uid is between 18 and 45
[END]
```

```
[not ("foo" matches "/bar/")]
# This condition matches, if "foo" does not match the regular expression '/bar/'
[END]
```

```
[request.getNormalizedParams().getHttpHost() == 'example.com']
# This condition matches, if current hostname is 'example.com'
[END]
```

- Using old condition syntax triggers a deprecation message

# Finalized Features

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## Extbase Translation Handling

- Extbase now renders translated records the same way as TypoScript does
- The new behaviour is controlled by the feature switch:

```
config.tx_extbase.features.consistentTranslationOverlayHandling  
    = 1
```

- The new behaviour is the default in v9 LTS (the feature switch will be removed in v10)
- Learn more about how to query data using Extbase in the [TYPO3 documentation](#)

# Finalized Features

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## Site Configuration in TypoScript

Site configuration can be accessed via `getText` property in TypoScript:

```
page.10 = TEXT
page.10.data = site:base
page.10.wrap = The base URL is: |
```

```
page.20 = TEXT
page.20.data = site:customConfigKey.nested.value
page.20.wrap = The nested value is: |
```



# Deprecated/Removed Functions

# Deprecated/Removed Functions

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## Deprecated Options and Functions (1)

- Second argument to backend and eID controller actions has been marked deprecated (controllers should create a response object implementing `Psr\Http\Message\ResponseInterface`)
- TypoScript `cObject FILE` is error-prone and has been marked deprecated
- Extbase misuses the `@internal` annotation and therefore this annotation has been marked deprecated without a replacement
- Annotation `@flushesCaches` has been marked deprecated

# Deprecated/Removed Functions

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## Deprecated Options and Functions (2)

- The following classes have been marked deprecated:

`TYPO3\CMS\Recordlist\Controller\ElementBrowserFramesetController`

`TYPO3\CMS\Backend\Module\BaseScriptClass`

`TYPO3\CMS\Backend\Module\AbstractFunctionModule`

- Class `TYPO3\CMS\Taskcenter\Controller\TaskModuleController` no longer inherits `TYPO3\CMS\Backend\Module\BaseScriptClass`
- Single task classes should no longer expect to have an instance of the `TaskModuleController` set as `$GLOBALS['SOBE']`
- The visibility of the following method has been changed from `public` to `protected`:  
`TYPO3\CMS\Backend\Controller\BackendController->render()`

# Deprecated/Removed Functions

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## Deprecated Options and Functions (3)

- The following configuration options have been marked deprecated:
  - `config.tx_extbase.objects`
  - `plugin.tx_%plugin%.objects`
- The following hooks have been marked deprecated (PSR-15 middleware concept offers better implementation options)

```
$GLOBALS ... ['tslib/class.tslib_fe.php']['tslib_fe-PostProc']
$GLOBALS ... ['tslib/class.tslib_fe.php']['connectToDB']
$GLOBALS ... ['tslib/class.tslib_fe.php']['initFEuser']
$GLOBALS ... ['tslib/index_ts.php']['preBeUser']
$GLOBALS ... ['tslib/index_ts.php']['postBeUser']
$GLOBALS ... ['tslib/class.tslib_fe.php']['checkAlternativeIdMethods-PostProc']
$GLOBALS ... ['tslib/index_ts.php']['preprocessRequest']
```

# Deprecated/Removed Functions

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## Deprecated Options and Functions (4)

- The following TCA properties on `type="user"` config types have been deprecated and should not be used anymore:
  - `userFunc`
  - `parameters`
  - `noTableWrapping`
- Some methods in the following class have been marked deprecated  
`TYPO3\CMS\Backend\FrontendBackendUserAuthentication`
  - `checkBackendAccessSettingsFromInitPhp()`
  - `extPageReadAccess()`
  - `extGetTreeList()`
  - `extGetLL()`

# Deprecated/Removed Functions

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## Site configuration

- Site configuration in YAML file resides directly in the root now
- Previously used key "site" became obsolete and triggers a deprecation message when used
- Migration:
  - Edit file `config.yaml`, remove key "site" and move configuration up one level, or:
  - Save site configuration via the backend module

# Deprecated/Removed Functions

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## Changed Visibilities

- The visibility of several properties and methods have been changed from public to protected in classes:
  - TYPO3\CMS\Filelist\Controller\FileListController
  - TYPO3\CMS\Frontend\Controller\TypoScriptFrontendController
  - TYPO3\CMS\Impexp\Controller\ImportExportController
  - TYPO3\CMS\Recordlist\Controller\AbstractLinkBrowserController
  - TYPO3\CMS\Recordlist\Controller\ElementBrowserController
  - TYPO3\CMS\Recordlist\Controller\RecordListController
  - TYPO3\CMS\Reports\Controller\ReportController
  - TYPO3\CMS\RteCKEditor\Controller\BrowseLinksController
  - TYPO3\CMS\Setup\Controller\SetupModuleController
  - TYPO3\CMS\Taskcenter\Controller\TaskModuleController

# Deprecated/Removed Functions

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## Preparations for TYPO3 v10

- In preparation for a refactoring of module **Web** → **Template** in TYPO3 v10, some classes have been updated and a number of properties and methods marked deprecated.
  - TYPO3\CMS\Tstemplate\Controller\\*
- Same for module **Web** → **Info**
  - TYPO3\CMS\Info\Controller\\*
  - TYPO3\CMS\Linkvalidator\Report\\*



## Chapter 6: Sources and Authors

# Sources and Authors

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## Sources

### TYPO3 News:

- <https://typo3.org/project/news/>

### Release Infos:

- [https://get.typo3.org/release-notes/9.x/TYPO3\CMS\\_9.5.0](https://get.typo3.org/release-notes/9.x/TYPO3\CMS_9.5.0)
- [INSTALL.md](#) and [Changelog](#)
- `typo3/sysexst/core/Documentation/Changelog/9.5/*`

### TYPO3 Bug-/Issuetracker:

- <https://forge.typo3.org/projects/typo3cms-core>

### TYPO3 and Fluid Git Repositories:

- <https://git.typo3.org/Packages/TYPO3.CMS.git>
- <https://github.com/TYPO3/Fluid>

# Sources and Authors

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## TYPO3 CMS What's New Team:

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<https://typo3.org/help/documentation/whats-new/>

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