

# TYP03 Version 10.3 – What's New

Summary of the new features, changes and improvements

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# TYPO3 Version 10.3 - What's New

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## Chapter Overview

Introduction

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## Introduction

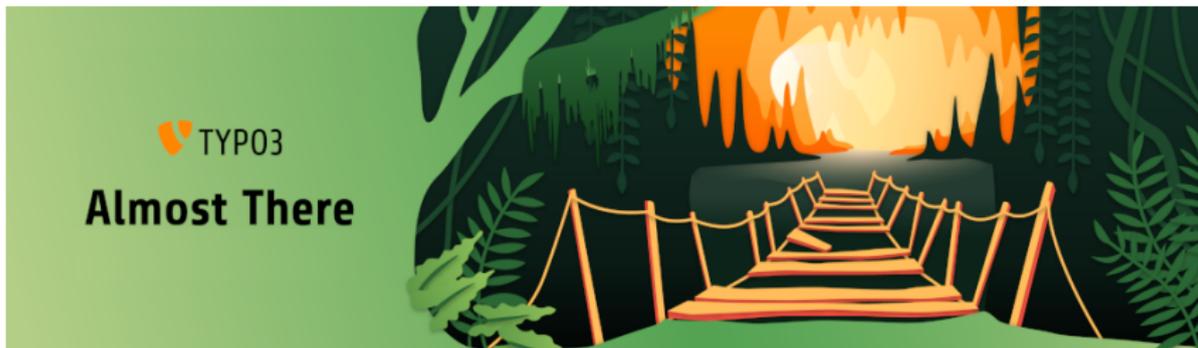
### The Facts

# Introduction

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## TYPO3 Version 10.3 – The Facts

- Release date: 25 February 2020
- Release type: Sprint Release



# Introduction

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## Executive Summary

As the last sprint release of the v10 cycle, TYPO3 version 10.3 is the so-called "[feature freeze](#)" version. This means, no new features from now on, until the LTS release in April, and the core team and all contributors are focused on testing, polishing, and refining the release.

However, there are some exceptions for minor improvements to complete features that have been already added in previous v10 sprint releases.

If you are an extension developer, please publish v10 compatible versions of your extensions. This will make it easier for the TYPO3 community to adopt TYPO3 v10 as soon as the LTS release launches.

One last important thing: Don't forget to join a [release party](#) or organize one yourself!

# Introduction

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## System Requirements

- PHP version 7.2, 7.3 or 7.4
- 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:

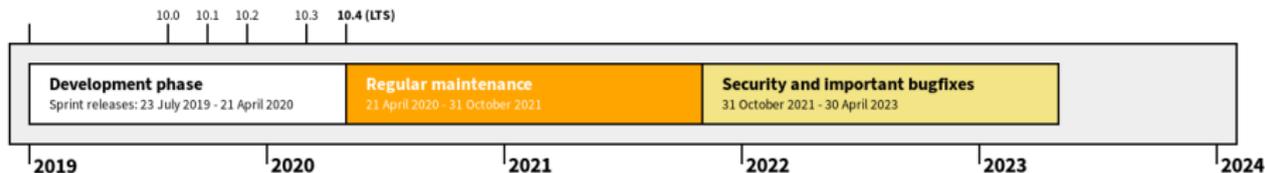


# Introduction

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## Development, Release, and Maintenance Timeline

### TYPO3 v10



### Extended Support

The [TYPO3 GmbH](#) offers further support options for TYPO3 v10 LTS even after 30 April 2023 for up to two additional years.

# Introduction

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## TYP03 v10 Roadmap

Release dates and their primary focus:

- v10.0 23/July/2019 Pave the way for exciting new concepts and APIs
- v10.1 01/Oct/2019 Routing Improvements and Site Handling v2
- v10.2 03/Dec/2019 Fluid/Rendering Engine Improvements
- v10.3 25/Feb/2020 **Feature Freeze**
- v10.4 21/Apr/2020 LTS Release (Long-term Support)

<https://typo3.org/article/typo3-v10-roadmap/>

<https://typo3.org/article/typo3-v10-safe-and-sound/>

# 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/10.3
$ tar xzf typo3_src-10.3.0.tar.gz
$ cd htdocs
$ ln -s ../typo3_src-10.3.0 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 typo3v10 ^10.3
```

- 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>

## Chapter 1: Backend User Interface

# Backend User Interface

## Dashboard (1)

A dashboard has been introduced that shows important system information to the currently logged-in backend user.

TYPO3 CMS v10 dev  
10.3.0

WEB

- Dashboard
- Page
- View
- List
- Forms
- Info
- Template

SITE MANAGEMENT

FILE

ADMIN TOOLS

SYSTEM

My dashboard +

### TYPO3 CMS 10.3.0-dev

TYPO3 CMS is an enterprise-class, Open Source Content Management System, used internationally to build and manage websites of all types, from small sites for non-profits to multilingual enterprise solutions for large corporations.

For further information visit [typo3.org](https://typo3.org).

TYPO3 CMS is **freely available** under the [TYPO3-license \(GNU/GPL\)](https://www.gnu.org/licenses/gpl-3.0.html).

You are using version 10.3.0-dev - Copyright © 1998-2020 Kasper Skårhøj

### Getting Started with TYPO3

New to TYPO3? In our Getting Started Tutorial you will learn the basics how to use TYPO3.

Getting Started Tutorial

### TYPO3 news

**TYPO3 9.5.14 and 8.7.31 maintenance releases published 17-02-20**  
The TYPO3 Community announces the versions 9.5.14 LTS and 8.7.31 LTS of the TYPO3 Enterprise Content Management System.

**An Update About the Dashboard for TYPO3 17-02-20**  
It has been a while since I gave you an update about the new Dashboard for TYPO3, but I can guarantee you: we have been busy, and we have an update about the Dashboard for TYPO3!

**News from the Structured Content Initiative 11-02-20**  
Here's an update from the TYPO3 Structured Content Initiative about recent progress and how you can help right now by completing a survey.

**Report from the Board QSA, November 2019 26-01-20**  
A revamped Marketplace concept, the future of our marketing and events, as well as the topics to receive a special emphasis in 2020 were some of the topics at this year's last...

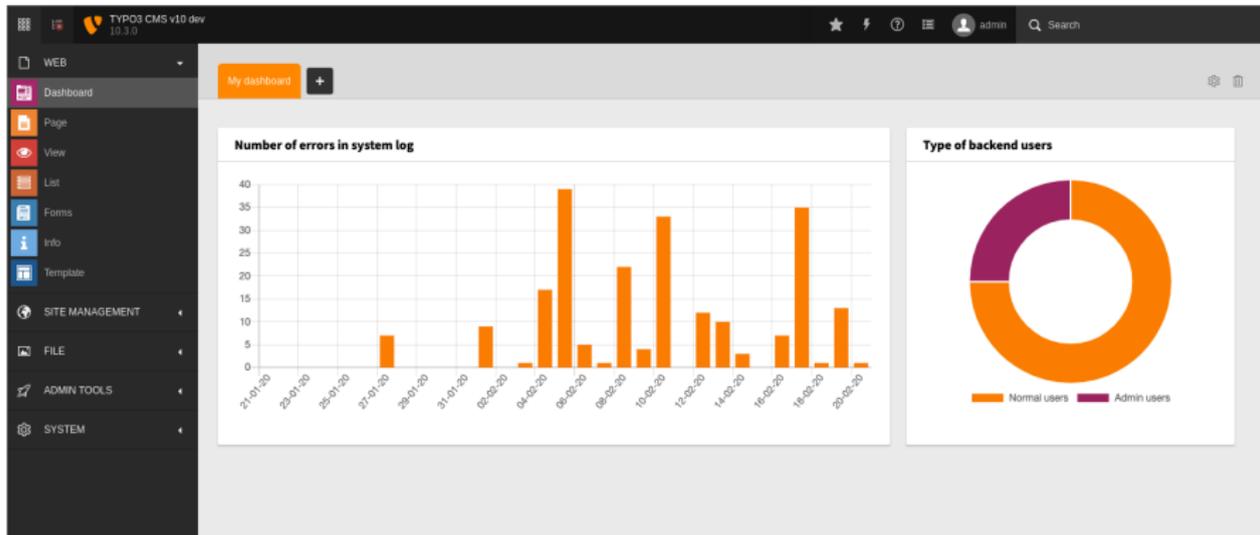
**Expanding TYPO3 with Your Help this Spring 23-01-20**  
We're excited about the opportunities to grow TYPO3 in Africa in 2020. Want to join our network of mentors or our delegation to CMS Africa Summit in March? We have African...

More TYPO3 news

# Backend User Interface

## Dashboard (2)

Users can create their own dashboards and add, remove, and re-arrange "widgets". Developers can build custom widgets as extensions.



## Chapter 2: Changes for Integrators

# Changes for Integrators

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## Dashboard

- Dashboard *presets* can be configured for new users or for users who deleted all their dashboards.
- This can be used to show a "Getting Started" dashboard by default.
- Example TSconfig:

```
options.dashboard.dashboardPresetsForNewUsers = default, dashboardPreset-myPreset
```

- Multiple dashboard presets can be defined in a comma separated list.

# Changes for Integrators

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## Localization Management Platform

- The SaaS solution "[Crowdin](#)" is now used as the localization/translation management platform for TYPO3.
- We encourage everyone to participate and improve the localization.
- Crowdin can be used to translate language labels of the TYPO3 core as well as of TYPO3 extensions.
- Read more about this in the [TYPO3 documentation](#).



# Changes for Integrators

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## Fluid-based HTML Emails (1)

- TYPO3 now supports sending template-based HTML and plain-text emails.
- Emails are built by using the Fluid templating engine.
- Email templates can be customized by overwriting the paths to the template files:

```
$GLOBALS['TYPO3_CONF_VARS']['MAIL']['templateRootPaths'][700] =  
    'EXT:my_site_extension/Resources/Private/Templates/Email';
```

```
$GLOBALS['TYPO3_CONF_VARS']['MAIL']['layoutRootPaths'][700] =  
    'EXT:my_site_extension/Resources/Private/Layouts';
```

# Changes for Integrators

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## Fluid-based HTML Emails (2)

- Fluid-based templated emails are used for the following components for example:
  - Install Tool test email (see example on the next slide).
  - Workspace notification email on stage change.
  - Notification email on backend user login.

# Changes for Integrators

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## Fluid-based HTML Emails (3)

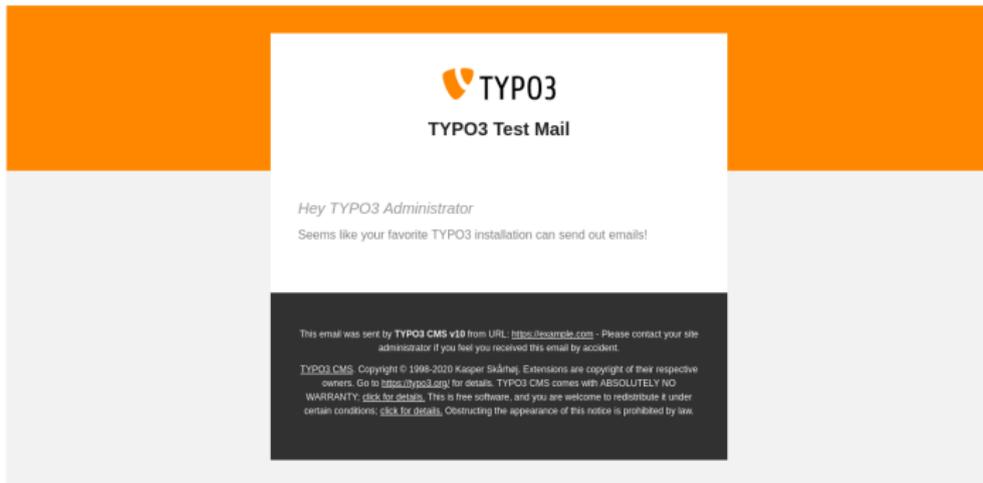
### Test email sent from the Install Tool:

Test TYPO3 CMS mail delivery from site "New TYPO3 site"



From TYPO3 CMS install tool

[Details](#) [Plain text](#)



# Changes for Integrators

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## Workspaces and TypeScript

- A new expression language variable has been added: `workspace`.
- This variable can be used to match a given expression against common workspace parameters.
- Currently, the following parameters are supported:  
`workspaceId`, `isLive`, and `isOffline`.
- For example:

```
[workspace.workspaceId === 3]  
  # Current workspace ID is 3  
[end]
```

# Changes for Integrators

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## TypoScript

- The old `PIDupinRootline` condition has been re-implemented in TypoScript using the Symfony expression language.
- Old TypoScript condition syntax:

```
[PIDupinRootline = 30]
    page.10.value = I'm on any subpage of page with UID 30.
[END]
```

- New TypoScript condition syntax:

```
[30 in tree.rootLineParentIds]
    page.10.value = I'm on any subpage of page with UID 30.
[END]
```

# Changes for Integrators

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## Lazy Loading for Images

- The HTML attribute `loading` can now be set for `<img>`-tags.
- Browsers which support this feature won't load these images until they are in the viewport.
- The behavior can be modified by the following TypoScript constant:

```
styles.content.image.lazyLoading = lazy
```

- Valid values are: `lazy` (default), `eager`, and `auto`.
- The Fluid *Image-ViewHelper* also supports lazy loading now:

```
<f:image src="{fileObject}" treatIdAsReference="true"  
loading="lazy" />
```

# Changes for Integrators

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## Default values for lockIP/lockIPv6

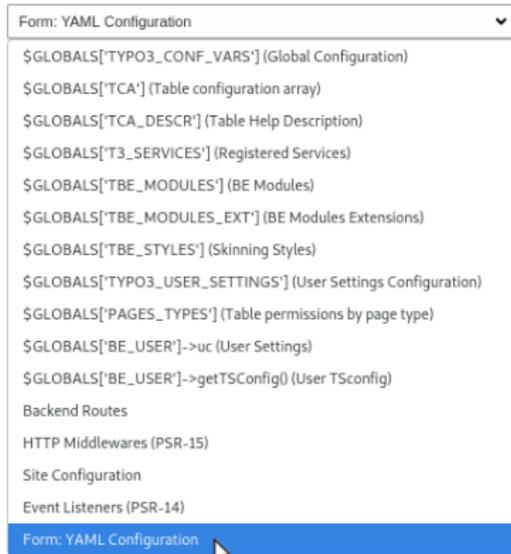
- The default values for lockIP settings have been changed.
- The following four system variables are now **disabled** by default:
  - [FE] ['lockIP']
  - [FE] ['lockIPv6']
  - [BE] ['lockIP']
  - [BE] ['lockIPv6']
- The old default values ("4" for the backend and "2" for the frontend) caused problems for example for clients with IPv4 and IPv6 address support.

# Changes for Integrators

## Form: YAML Configuration

If the system extension `EXT:form` is installed, the parsed YAML configuration can be displayed under **SYSTEM** → **Configuration**.

This also requires administrators to activate `EXT:lowlevel` of course.



# Changes for Integrators

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## SEO: Sitemap.xml

- The default path to the file `Sitemap.xml` of the system extension `EXT:seo` can be customized now:

```
# Globally for all sitemaps:
```

```
plugin.tx_seo.config.xmlFile = EXT:myext/Resources/Public/CSS/mySite.xml
```

```
# For all sitemaps of a specific type:
```

```
plugin.tx_seo.config.<sitemapType>.sitemaps.xmlFile = EXT:myext/Resources/Public/CSS/mySite.xml
```

```
# For a specific sitemap:
```

```
plugin.tx_seo.config.<sitemapType>.sitemaps.<sitemap>.config.xmlFile =  
    EXT:myext/Resources/Public/CSS/mySite.xml
```

- The default path reads:

```
EXT:seo/Resources/Public/CSS/Sitemap.xml
```

# Changes for Integrators

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## Reference Index

- Progress bars are shown for each database table during Reference Index update.

```
typo3v10:~/www$ ./bin/typo3 referenceindex:update -c
Reference Index being TESTED (nothing written, remove the "--check" argument)
-----
Update index of table be_groups
-----
1/1 [ ██████████ ] 100%
Update index of table pages
-----
1/1 [ ██████████ ] 82%
```

# Changes for Integrators

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## Info Module

- SEO and Social Media details have been added to the Info module:  
**WEB** → **Info** → **Pagetree Overview**.

Pagetree overview



Page title	Title for search engines	Description	Index this page	Follow this page	Canonical link	Change frequency	Priority
example.com /			Yes	Yes			0.5
Page 1 /			Yes	Yes			0.5
Page 2 /			No	No			0.5
Page 3 /			Yes	Yes			0.5

# Changes for Integrators

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## Scheduler

- Multiple tasks can be executed when using the option `--task`

```
typo3v10:~/www$ ./bin/typo3 scheduler:run --task 1 --task 2
```

- Verbose output can be enabled by `-v` and `-vv`

```
typo3v10:~/www$ ./bin/typo3 scheduler:run -vv
```

# Changes for Integrators

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## Backend User Module

- A new detail view of backend user records shows all relevant data.
- Additional fields have been added to the function to compare users.
- This function also takes subgroups into account now.
- The user interface of the module will be adjusted and optimized further.
- These changes make it easier for integrators/administrators to check and compare user permissions without switching to the user.

# Changes for Integrators

## Extension Manager

System and 3rd-party extensions can now be listed separately in the Extension Manager.

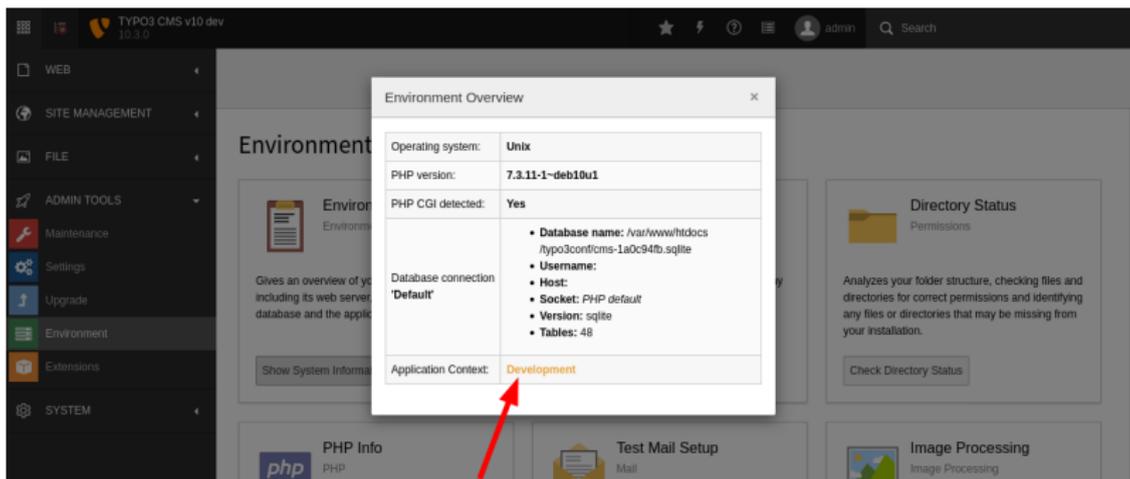
### Installed Extensions

Upd.	AID	Extension	Key	Version	State	Type	Actions
		 Make BE user password really secure	be_secure_pw	9.1.0	stable	Local	  
		 Bootstrap Package	bootstrap_package	11.0.2	stable	Local	  
		 The official Introduction Package	introduction	4.2.0	stable	Local	  
		 Reverse Proxy - Cache Manager	proxycachemanager	3.0.1	stable	Local	  
		 TYPO3 CMS Backend Styleguide and Testing use cases	styleguide	10.0.0	stable	Local	  

# Changes for Integrators

## Environment Overview

The current application context is now shown in the Environment module:  
**ADMIN TOOLS** → **Environment** → **Environment Overview**.



The screenshot displays the TYPO3 CMS Administration Tool interface. A modal window titled "Environment Overview" is open, showing the following details:

Operating system:	Unix
PHP version:	7.3.11-1-deb10u1
PHP CGI detected:	Yes
Database connection 'Default':	<ul style="list-style-type: none"><li>• Database name: /var/www/html/docs TYPO3conf/cms-1a0c94fb.sqlite</li><li>• Username:</li><li>• Host:</li><li>• Socket: PHP default</li><li>• Version: sqlite</li><li>• Tables: 48</li></ul>
Application Context:	Development

A red arrow points to the "Application Context" field, which is highlighted in orange and set to "Development".

# Changes for Integrators

## Feature Toggles

The visual appearance of feature toggles has been improved:

### TYPO3 < 10.3

Feature Toggles

Enable and disable certain core features. Feature toggles in the core are used to globally use new features of TYPO3 that may be activated on new installations but upgrading installations can still use the old behaviour.

**Available features:**

- fluidBasedPageModule (default on): Use the rewritten page layout backend module which is based on Fluid. Can be toggled off to use the legacy PageLayoutView on installations which require the hooks etc. which are associated with PageLayoutView
- formLegacyUploadMimeType (default on): If on, some mime types are predefined for the "FileUpload" and "ImageUpload" elements of the "form" extension which always allows file uploads of these types, no matter the specific form element definition.
- redirectsHitCount (default off): If on, and if extension "redirects" is loaded, each performed redirect is counted and last hit time is logged to the database.
- securityFrontendKeepSessionDataOnLogout (default off): If on, session data is kept in an anonymous session after frontend user logged out. As this is a potential security risk, it is recommended to disable this option if not specifically needed.
- rearrangedRedirectMiddlewares (default off): If on, the middlewares "base redirect" and "redirects" are switched, so that "redirects" (if extended is installed) is executed before "base redirect". The new ordering aims to be a better default shipped by the TYPO3 core.
- loginExtbase (default off): If activated, and if extension "login" is loaded, extbase based code will be used instead of pbase version

Save

### TYPO3 >= 10.3

Feature Toggles

Enable and disable certain core features. Feature toggles in the core are used to globally use new features of TYPO3 that may be activated on new installations but upgrading installations can still use the old behaviour.

**Available features:**

- Fluid based page module  
Use the rewritten page layout backend module which is based on Fluid. Can be toggled off to use the legacy PageLayoutView on installations which require the hooks etc. which are associated with PageLayoutView  
**Default setting: Enabled**
- Form: legacy upload mime types  
If on, some mime types are predefined for the "FileUpload" and "ImageUpload" elements of the "form" extension which always allows file uploads of these types, no matter the specific form element definition.  
**Default setting: Enabled**

Default: hit count

Save

## Chapter 3: Changes for Developers

# Changes for Developers

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## Dashboard (1)

- Developers can create custom widgets for the Dashboard by extending one of the following widget *abstracts*:
  - `AbstractWidget`  
A basic abstract that can be used as the start of simple widgets.
  - `AbstractRssWidget`  
An abstract to create a widget that shows a RSS feed.
  - `AbstractListWidget`  
An abstract to create a widget that shows a list of items.
  - `AbstractCtaButtonWidget`  
An abstract to create a widget that shows a "call-to-action" button.

# Changes for Developers

---

## Dashboard (2)

- Register your widgets in the following file of your extension:  
EXT:my\_extension/Configuration/Services.yaml
- Option 1: widget identifier as attribute

```
Vendor\MyExtension\Widgets\MyFirstWidget:  
  tags:  
    - name: dashboard.widget  
      identifier: widget-identifier-1  
      widgetGroups: 'general'
```

- Option 2: custom service name allows multiple widget identifier to share one class

```
widget.identifier:  
  class: Vendor\MyExtension\Widgets\MySecondWidget  
  tags:  
    - name: dashboard.widget  
      identifier: widget-identifier-2  
      widgetGroups: 'general, typo3'
```

# Changes for Developers

---

## Dashboard (3)

- Every widget is attached to one or more widget groups.
- Those groups are shown in the modal when adding a new widget to your dashboard.
- Developers can configure custom widget groups by creating a file `EXT:my_extension/Configuration/Backend/DashboardWidgetGroups.php`

```
return [  
    'widgetGroup-exampleGroup' => [  
        'title' => 'LLL:EXT:my_extension/Resources/Private/Language/locallang.xlf:widget_group_name',  
    ],  
];
```

# Changes for Developers

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## Extbase and Fluid

- The following PSR-14-based events have been introduced for Extbase-related signals:

```
TYPO3\CMS\Extbase\Event\Mvc\AfterRequestDispatchedEvent  
TYPO3\CMS\Extbase\Event\Mvc\BeforeActionCallEvent  
TYPO3\CMS\Extbase\Event\Persistence\AfterObjectThawedEvent  
TYPO3\CMS\Extbase\Event\Persistence\ModifyQueryBeforeFetchingObjectDataEvent  
TYPO3\CMS\Extbase\Event\Persistence\ModifyResultAfterFetchingObjectDataEvent  
TYPO3\CMS\Extbase\Event\Persistence\EntityAddedToPersistenceEvent  
TYPO3\CMS\Extbase\Event\Persistence\EntityFinalizedAfterPersistenceEvent  
TYPO3\CMS\Extbase\Event\Persistence\EntityUpdatedInPersistenceEvent  
TYPO3\CMS\Extbase\Event\Persistence\EntityRemovedFromPersistenceEvent  
TYPO3\CMS\Extbase\Event\Persistence\EntityPersistedEvent
```

- Existing signals have been replaced and should not be used anymore.

# Changes for Developers

---

## ViewHelper editRecord

- An optional argument `fields` has been added to the `uri.editRecord` and `link.editRecord` ViewHelpers.
- If set, the FormEngine creates a form to only edit the given database field(s).
- The following example creates a link to edit the `tt_content.bodytext` field of record with the UID 42.

```
<be:link.editRecord uid="42" table="tt_content" fields="bodytext" returnUrl="foo/bar">  
  Edit record  
</be:link.editRecord>
```

# Changes for Developers

---

## AssetCollector

- The initial steps of integrating an AssetCollector have been implemented.
- The concept allows developers to add custom CSS/JS code (inline or external) multiple times, but TYPO3 outputs it only once.
- In this regards, two new Fluid ViewHelpers have been added:
  - `<f:asset.css>`
  - `<f:asset.script>`
- In the long run, the AssetCollector aims to replace the various existing TypoScript options that are rather confusing.

# Changes for Developers

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## Modify hreflang-tag

- It is now possible to modify hreflang tags before they get rendered.
- Developers can achieve this by registering an event listener for the following event:

`TYPO3\CMS\Frontend\Event\ModifyHrefLangTagsEvent`

# Changes for Developers

---

## Modify the CKEditor Configuration

- The following PSR-14-based events have been introduced which allow to modify the CKEditor configuration:

```
TYPO3\CMS\RteCKEditor\Form\Element\Event\AfterGetExternalPluginsEvent  
TYPO3\CMS\RteCKEditor\Form\Element\Event\BeforeGetExternalPluginsEvent  
TYPO3\CMS\RteCKEditor\Form\Element\Event\AfterPrepareConfigurationForEditorEvent  
TYPO3\CMS\RteCKEditor\Form\Element\Event\BeforePrepareConfigurationForEditorEvent
```

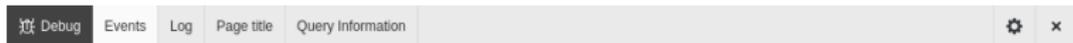
- The [change log](#) for an example.

# Changes for Developers

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## PSR-14 Events in Admin Panel

- The Admin Panel shows all PSR-14 events that have been dispatched in the current request.



# Changes for Developers

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## API for AJAX Requests

- The **Fetch API** has been introduced to perform AJAX requests and to make TYPO3 less dependent on jQuery.
- The API provides a generic definition of Request and Response objects (and other things involved with network requests).
- Supported by all modern browsers, see [compatibility chart](#).
- The TYPO3 core uses the new API in the Install Tool, FormEngine, and context menus already.
- See the [change log](#) for some examples on how to use the Fetch API.

# Changes for Developers

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## TCA Description Fields

- The description field in the TCA can now contain line breaks to make long texts more readable.

# Changes for Developers

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## Classes `BasicFileUtility` and `ExtendedFileUtility`

- The following two legacy classes have been marked as **internal** and should not be used anymore:
  - `TYPO3\CMS\Core\Utility\File\BasicFileUtility`
  - `TYPO3\CMS\Core\Utility\File\ExtendedFileUtility`
- Extension developers should use the classes `ResourceStorage` and `ResourceFactory` for managing assets instead.

# Changes for Developers

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## Console Commands: Symfony DI Support

- Command dependencies can now be injected via constructor or other injection techniques.
- Add the `console.command` tag to command classes.
- Use the tag attribute `command` to specify the command name.
- The optional tag attribute `schedulable` can be set to `false` to exclude the command from the TYPO3 scheduler.
- See [change log](#) for an example.

# Changes for Developers

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## Action Buttons in Modals

- Modal popups now support action buttons.
- As an alternative to the existing `trigger` option, the new option `action` can be used.
- For example:

```
Modal.confirm('Header', 'Some content', Severity.error, [  
  {  
    text: 'Based on trigger()',  
    trigger: function () {  
      console.log('Vintage!');  
    }  
  },  
  {  
    text: 'Based on action()',  
    action: new DeferredAction(() => {  
      return new AjaxRequest('/any/endpoint').post({});  
    })  
  }  
]);
```

# Changes for Developers

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## JavaScript Event API

- A new Event API enables JavaScript developers to have a stable event listening interface.
- The API takes care of common pitfalls like event delegation and clean event unbinding.
- Each *event strategy* offers two ways to bind a listener to an event.
- The Event API offers several strategies to handle event listeners.
- See [change log](#) for examples and further details.

## Chapter 4: Deprecated/Removed Functions

# Deprecated/Removed Functions

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## Switchable Controller Actions

- "Switchable Controller Actions" (SCA) have been marked as **deprecated**.
- SCA are used to override the allowed set of controllers and actions using TypoScript or Flexforms.
- Using the same plugin as an entry point for many different functionalities contradicts the idea of a plugin serving one specific purpose.
- Plugins that use SCA should be split into multiple different plugins.

# Deprecated/Removed Functions

---

## Global Constants

- The following two global constants have been marked as **deprecated**:
  - `TYP03_version`
  - `TYP03_branch`
- The following new PHP class should be used instead:  
`TYP03\CMS\Core\Information\Typo3Version`

# Deprecated/Removed Functions

---

## Extbase: WebRequest/WebResponse

- The following two Extbase classes have been marked as **deprecated**:
  - TYPO3\CMS\Extbase\Mvc\Web\Request
  - TYPO3\CMS\Extbase\Mvc\Web\Response

# Deprecated/Removed Functions

---

## Simplified RTE Parser API

- The PHP class `RteHtmlParser` features a simplified API now.
- As a consequence, the following two methods have been marked as **deprecated**:
  - `TYPO3\CMS\Core\Html\RteHtmlParser->init()`
  - `TYPO3\CMS\Core\Html\RteHtmlParser->RTE_transform()`

# Deprecated/Removed Functions

---

## Console Commands Configuration

- As the console commands configuration has been migrated to Symfony service tags, the console command configuration file `Configuration/Commands.php` has been marked as **deprecated**.
- Use the dependency injection service tag `console.command` instead.

# Deprecated/Removed Functions

---

## TCA: `transOrigPointerField`

- Excluding the field pointed by the following TCA option led to inconsistent data stored in the database under certain circumstances:  
`$GLOBALS['TCA'][$table]['ctrl']['transOrigPointerField']`
- Therefore, the targeted field can not be excluded anymore.
- A migration wizard removes the option from the TCA and adds a deprecation message to the deprecation log in case code needs to be updated.

# Deprecated/Removed Functions

---

## DocumentTemplate

- The following class has been marked as **deprecated**:
  - TYPO3\CMS\Backend\Template\DocumentTemplate
- It was used as a basis to render backend modules or HTML-based output in TYPO3 backend.
- Since TYPO3 v7, the new API via ModuleTemplate should be used instead.

```
use TYPO3\CMS\Backend\Template\ModuleTemplate;
...
$moduleTemplate = GeneralUtility::makeInstance(ModuleTemplate::class);
$content = $this->getHtmlContentFromMyModule();
$moduleTemplate->setTitle('My module');
$moduleTemplate->setContent($content);
return new HtmlResponse($moduleTemplate->renderContent());
```

# Deprecated/Removed Functions

---

## LinkValidator

- The following method has been marked as **deprecated**:

```
TYPO3\CMS\Linkvalidator\Repository\BrokenLinkRepository  
->getNumberOfBrokenLinks()
```

- Use the following method in the same class instead:

```
BrokenLinkRepository::isLinkTargetBrokenLink()
```

## Chapter 5: Security and Privacy

# Security and Privacy

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## Dashboard

- Widgets of Dashboards possibly contain sensitive information.
- Therefore, we recommend to define access permissions for widgets on a group basis.
- Backend users only have access to widgets that are available for them.
- Users with administrator permissions always have access to all widgets.

# Security and Privacy

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## Status Reports

- The DebugExceptionHandler possibly outputs sensitive data that could result in an information disclosure vulnerability.
- A new status report has been introduced to warn administrators.

**WARNING**, if context is set to **development** and the error output is enabled:

Exception Handler / Error Reporting

OK

Display Errors is set to 1 - errors will be displayed with the DebugExceptionHandler including stack traces.

**ERROR**, if context is set to **production** and the error output is enabled:

Exception Handler / Error Reporting

Insecure

Debug Exception Handler enabled in Production Context - will show full error messages including stack traces.

# Security and Privacy

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## SameSite Cookies (1)

- To strengthen security and privacy, TYPO3 now supports the "SameSite"-option for cookies set by the TYPO3 core.
- The attribute is supported by most modern browsers and allows websites to declare if cookies should be restricted.
- According to [OWASP](#), SameSite cookies *"mitigate the risk of cross-origin information leakage"*, with *"some protection against cross-site request forgery attacks"*.
- Valid settings are "**strict**", "**lax**", or *not set*.

# Security and Privacy

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## SameSite Cookies (2)

- TYPO3 sets the following options:
  - FE user sessions: "lax" by default
  - BE user sessions: "strict" by default
  - Install Tool sessions: "strict" (not configurable)
  - Last login provider (BE): "strict" (not configurable)
- The Install Tool offers a system configuration to adjust the SameSite cookies policies, if the default settings are too strict (e.g. with authentication providers such as OpenID/OAuth).
- Read more about SameSite cookies in [RFC6265](#) (draft).

# Security and Privacy

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## Password Hash Algorithms

- The hashing algorithm `Argon2i` ("i") was introduced with TYPO3 v9 LTS.
- `Argon2id` ("id") is now also available in TYPO3 if the PHP version supports it.
- `Argon2id` is a hybrid of `Argon2i` and `Argon2d` and is more resistant against side-channel attacks.
- `Argon2id` is typically available on systems with PHP version 7.3 or higher.

## 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/10.x/TYPO3\CMS\\_10.3.0](https://get.typo3.org/release-notes/10.x/TYPO3\CMS_10.3.0)
- [TYPO3 v10 Changelog](#)
- `typo3/sysex/core/Documentation/Changelog/10.3/*`

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

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