



# TYPO3 X

Innovations in the latest LTS

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# AGENDA

- The road to LTS
- Hands on
- The Features, within one's grasp
- Anything missing?

# THE ROAD TO LTS

# ***BRANCHING 10.0.0-DEV***

- **Dependency Injection (Symfony Service Container)**
- **Event Dispatcher (PSR-14)**
- **Mailer API (Symfony Mime und Mailer)**
- **PSR-3 compatible Logging API**
- **Form Mail Finisher improvements**
- **and more ...**

- **Site configurations in “site packages”**
- **Auto generated site configuration**
- **Redirects creation on “slug” update**
- **Report of redirect conflicts**
- **Notification Actions**
- **Import YAML configuration with relative paths**
- **and more ...**

- **UX Week**
- **Further ext:form improvements**
- **Fluid based ext:felogin**
- **Replacement of Hooks and Signal Slots with PSR-14**
- **Native pagination for lists**
- **Multiple (different) sitemaps**
- **and more ...**

- **Dashboard**
- **Fluid based *Page Layout***
- **Fluid based *Mail Templates***
- ***Backend User* module enhancements**
- **Form YAML configuration in *Configuration Module***
- **AssetCollector**
- **and many more ..!**



- **Password reset (Backend!)**
- **Content element filter**
- **Grouping and sorting of “select items”**
- **Flexible “base url” for “slug” fields**
- **Site settings in TypoScript and TSConfig**
- **Query Restrictions for individual tables**
- **and a bit more ...**

# HANDS ON

# Installation of the new LTS

- Installation with Docker, DDEV and Composer



```
mkdir typo3v10 && cd typo3v10
ddev config --project-type=typo3 --docroot=public --create-docroot=true
ddev composer create typo3/cms-base-distribution:"10.4" --prefer-dist
ddev start
ddev exec touch /var/www/html/public/FIRST_INSTALL
ddev launch typo3/install.php
```

# *THE FEATURES, WITHIN ONE'S GRASP*

# EXTENSION MANAGER FILTER



My new TYPO3 v10 site  
10.4.1

Dashboard

Web

Page

View

List

Forms

Info

Template

Site Management

Sites

File

Filelist

Admin Tools

Maintenance

Settings

Upgrade

Import

Setup

Change Log

Logout

Composer mode  
The system is set to composer mode. Please notice that it is not possible to add an extension with the Extension Manager. You have to use composer to add further extensions to your system.

## Installed Extensions

Upd.	A/D	Extension	Key	Version	State	Type	Actions
	Bootstrap Package	bootstrap_package	11.0.2	stable	Local		
	Custom dashboard widgets	custom_dashboard_widgets	1.0.0	stable	Local		

Search

All System Local

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# AUTO GENERATED SITE CONFIGURATION



The screenshot shows the TYPO3 v10 Site Configuration page. The left sidebar is dark-themed and includes sections for Dashboard, Web (Page, View, List, Forms, Info, Template), Site Management (Sites, Redirects), File (Filelist), Admin Tools (Maintenance, Cache, Log, Help), and a footer section with links to TYPO3 X, TYPO3 News, and TYPO3 Events.

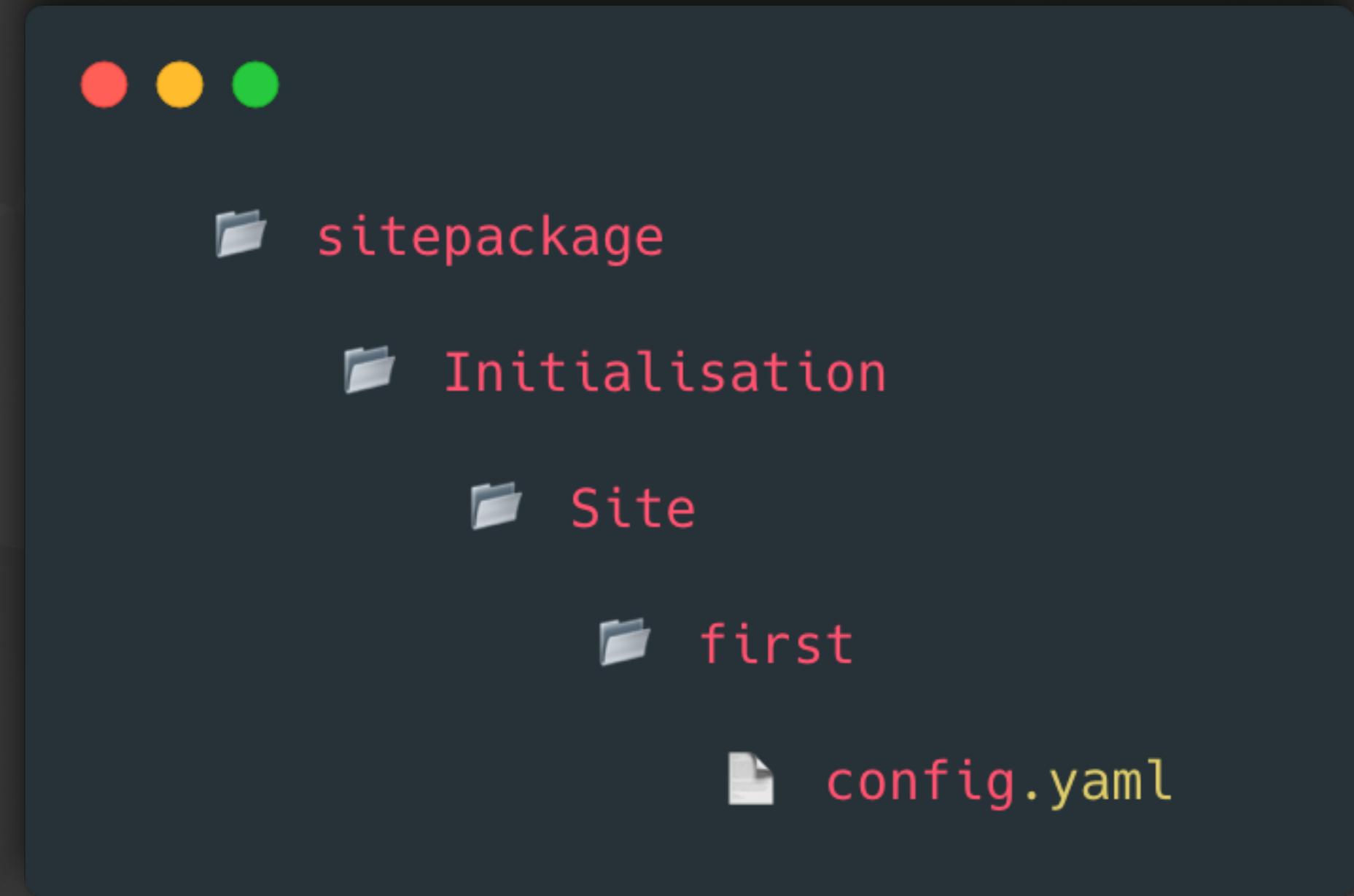
The main content area is titled "Site Configuration". It displays a single site entry:

Site	Configuration Folder	Base URLs
Startseite [ID: 2]	autogenerated-2-c81e728d9d	<b>Language</b> English <b>Full URL prefix</b> https://typo3v10.ddev.site/autogenerated-2/

Actions for this entry include edit and delete buttons.

At the top of the main area, there are navigation icons: star, lightning bolt, question mark, document with '2', user icon, search bar, and refresh/star icons.

# SITE CONFIGURATION IN SITEPACKAGE EXTENSION





```
imports:  
- { resource: "../../../../build/generic/404.yaml" }
```

# SLUG RECREATION // REDIRECT CREATION // NOTIFICATION ACTIONS



The screenshot shows the TYPO3 v10.4.1 backend interface. The left sidebar has sections for Dashboard, Web (with Page selected), View, List, Forms, Info, Template, Site Management (with Sites and Redirects), File, and Redirects. The main content area shows a tree view under 'Startseite' with nodes 'Unterseite 1', 'Unterseite 1.1', 'Unterseite 2', and 'Unterseite 3'. The 'Unterseite 1' node is selected. The right side shows the 'Edit Page "Unterseite 1"' form. At the top right of the form, there is a blue notification box with the message: 'Slugs updated and redirects created. Because you renamed a slug, the slugs of all sub-pages were updated and redirects were created for you automatically.' Below the message are two buttons: 'Revert update' and 'Revert redirects only'. The main form tabs include General, SEO, Social media, Metadata, Appearance, Behaviour, Resources, Language, and Access. Under the General tab, there are fields for Page Type (set to Standard), Page Title (Unterseite 1), and URL Segment (https://typo3v10.ddev.site /unterseite-1). There are also tabs for Categories and Notes.

TYPO3 CMS

Edit Category "Main Category" on page "Startseite"

General Items Language Access Notes

**Title [title]**

Main Category

**Slug [slug]**

my-custom-base-url/ main-category

my-custom-base-url\ main-category

05.05.2020 10:54:58

Close Save View New Delete   

## Redirects

Conflicting Redirects

1 conflicting redirects  
These redirects cause a conflict as there are pages that are still accessible with the same URL.

- <https://typo3v10.ddev.site/some-path>  
Source Domain: \*  
Source Path: /some-path

Source Path: \some-path  
Source Domain: \*

# FEATURE TOGGLERS



The screenshot shows the TYPO3 v10 backend interface. The top navigation bar includes icons for file manager, database, and user, followed by "My new TYPO3 v10 site" and "10.4.1". The right side of the bar has a star, lightning bolt, question mark, grid, user icon labeled "typo3\_v10", and a search bar. The left sidebar contains links for Info, Template, Site Management (with Sites and Redirects), File (with Filelist), Admin Tools (with Maintenance), Settings (which is selected and highlighted in grey), Upgrade, Environment, Extensions, System (with Access and Backend Users), and another set of Backend Users and Access links at the bottom. The main content area is a modal dialog titled "Feature Toggles". It contains a descriptive text: "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." Below this is a section titled "Available features:" with two items:

- Fluid based page module**: A toggle switch is turned on (green). The description states: "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: Disabled**
- Form: legacy upload mime types**: A toggle switch is turned on (green). The description states: "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**

A "Save" button is located at the bottom right of the modal.

# CONTENT ELEMENT PREVIEW

 TYPO3

+ Content

  Deutschland

**Willkommen**  
Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua.  


Custom footer for textpic

+ Content

+ Content

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[typo3.org](http://typo3.org) | [typo3.com](https://typo3.com) | [typo3.com/lts](https://typo3.com/lts)



```
// typo3conf/ext/sitepackage/Resources/Private/Templates/ContentElements/Text.html

<f:asset.css identifier="ce-text-css" priority="1">
    .ce-text p{
        font-size: 30px;
    }
</f:asset.css>

<f:asset.script identifier="ce-text-js">
    alert('Wird nur angezeigt, wenn ein Text element auf dieser Seite gepflegt ist.');
</f:asset.script>
```



```
lib.contentElement.dataProcessing.40 = TYP03\CMS\Frontend\DataProcessing\SiteProcessor
lib.contentElement.dataProcessing.40 {
    as = site
}
```

## SITE SETTINGS



```
settings:  
privacyPid: 9
```



```
TCAdefaults.tt_content.header_link = {$privacyPid}
```

# DASHBOARD



The screenshot shows the TYPO3 v10 dashboard with the following sections:

- About TYPO3**: Describes TYPO3 CMS as 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. It mentions version 10.4.1 and copyright information.
- Failed backend logins**: Shows 1 failed login in the last 24 hours.
- Getting Started with TYPO3**: Provides a link to the Getting Started Tutorial.
- Type of pages**: A donut chart showing the distribution of page types.
- 3rd party extensions**: Shows 3 third-party extensions.
- Type of backend users**: A donut chart showing the distribution of normal and admin users.
- Recently modified content**: Lists "Willkommen", "Pressebilder", and "Unsere Produkte".
- TYPO3 news**: Lists several news items:
  - TYPO3 v10 Maintenance Release Schedule** (30-04-20): TYPO3 v10 LTS receives a plannable release schedule for upcoming maintenance releases, as we did since TYPO3 v7 already. This makes it transparent for everybody in the TYPO3...
  - TYPO3 10.4.1 and 9.5.16 maintenance releases published** (28-04-20): The versions 10.4.1 and 9.5.16 of the TYPO3 Enterprise Content Management System have just been released.
  - TYPO3 v10 LTS Press Release in 12 Languages** (21-04-20): Spread the news in your language: Danish, Dutch, English, French, German, Hindi, Italian, Norwegian, Romanian, Spanish, Turkish, and Ukrainian. All thanks to TYPO3 community...
  - TYPO3 v10 LTS — Safe and Sound** (21-04-20): Today we are thrilled to announce the release of TYPO3 v10.4, also called TYPO3 v10 LTS indicating this is a long-term support version. This version is our new flagship and is,...
  - This Month in TYPO3 - March 2020 - Issue #15** (20-04-20): ...

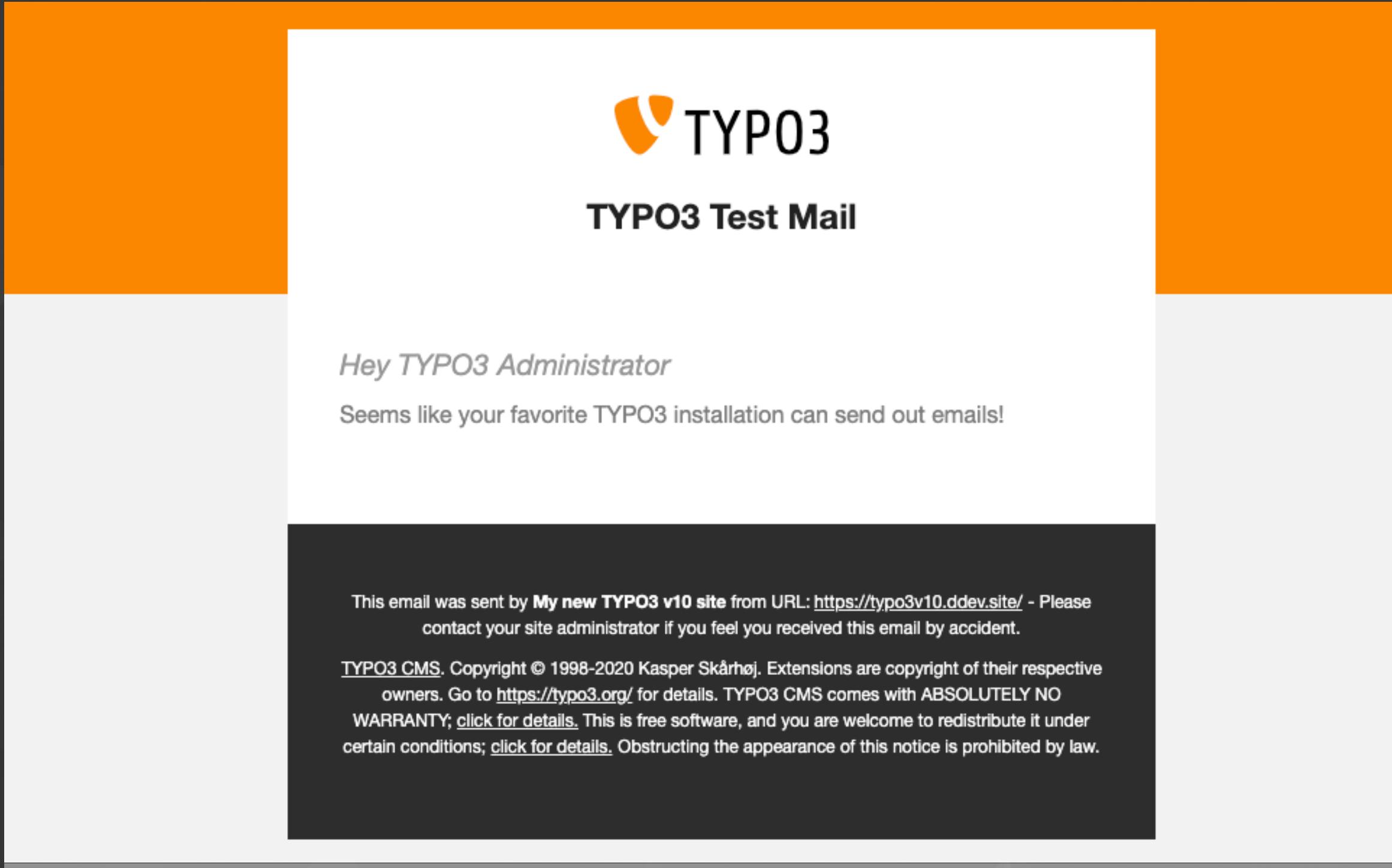
A banner at the bottom left reads "X - Innovations in the latest LTS".

## T3muc

Die TYPO3 Usergroup München trifft sich jeden ersten Dienstag im Monat um 19 Uhr im Kulturzentrum Giesinger Bahnhof in München-Giesing. Wir stehen allen TYPO3 und Webinteressierten offen.

→ Visit the website

→ Visit the website



The image shows a screenshot of an email message. The header features a large orange bar at the top with the TYPO3 logo and the text "TYPO3 Test Mail". The main content area has a white background with a central black box containing legal disclaimers. The footer is a dark grey bar.

**Hey TYPO3 Administrator**

Seems like your favorite TYPO3 installation can send out emails!

This email was sent by **My new TYPO3 v10 site** from URL: <https://typo3v10.ddev.site/> - Please contact your site administrator if you feel you received this email by accident.

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# CUSTOMISE FLUID BASED EMAILS

A screenshot of an email client displaying a test mail from TYPO3. The email features a blue header bar with the TYPO3 logo and the subject 'TYPO3 Test Mail'. The main content area is white with black text. It starts with a greeting 'Hey TYPO3 Administrator' and a message 'Seems like your favorite TYPO3 installation can send out emails!'. At the bottom, there is a dark footer bar containing legal disclaimers about the email's origin and the TYPO3 CMS license.

Hey TYPO3 Administrator

Seems like your favorite TYPO3 installation can send out emails!

This email was sent by **My new TYPO3 v10 site** from URL: <https://typo3v10.ddev.site/> - Please contact your site administrator if you feel you received this email by accident.

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# CUSTOMISE FLUID BASED EMAILS

A screenshot of an email message. The header features a blue bar at the top and bottom. In the center is a large yellow 'X' logo above the text "TYPO3 Test Mail". The main content area has a white background with a grey border. It contains the following text:

*Hey TYPO3 Administrator*  
Seems like your favorite TYPO3 installation can send out emails!  
My custom fluid email template! 🎉

A solid black horizontal bar is positioned at the bottom of the email content area.



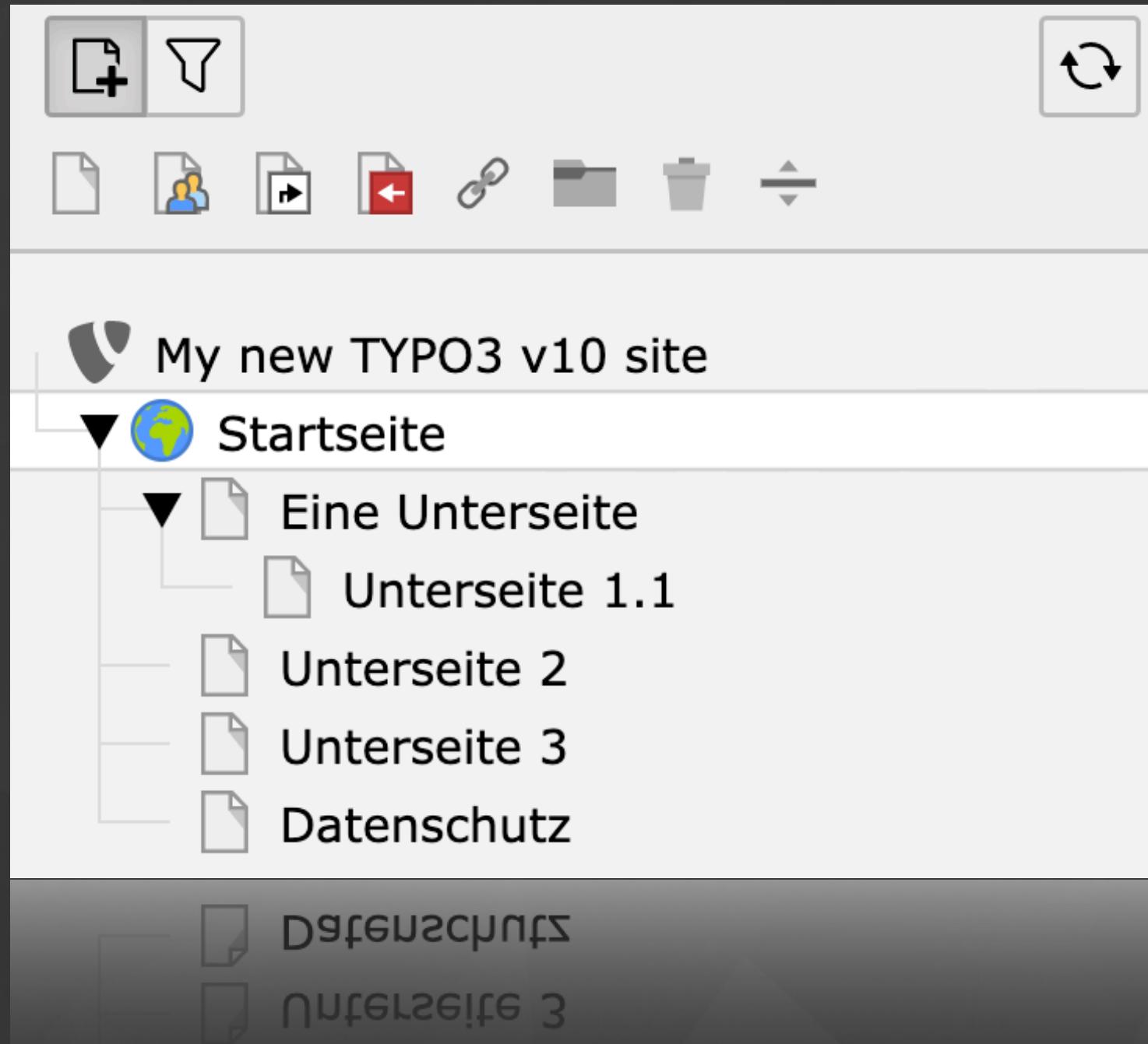
```
$mail = GeneralUtility::makeInstance(MailMessage::class)
    ->to(new Address('some@email.com', 'John Doe'))
    ->subject('E-Mail von unserer neuen TYPO3 v10 Installation')
    ->text('TYPO3 10 LTS ist da! Probiert es doch gleich mal aus!')
    ->html(
        '<h2>TYPO3 10 LTS ist da!</h2>'
        . '<h4>Probiert es doch gleich mal aus!</h4>'
    );

$mail->send();
```



```
$mail = GeneralUtility::makeInstance(FluidEmail::class)
    ->to(new Address('some@email.com', 'John Doe'))
    ->subject('Fluid E-Mail von unserer neuen TYPO3 v10 Installation')
    ->assignMultiple([
        'headline' => 'TYPO3 10 LTS ist da!',
        'content' => 'Probiert es doch gleich mal aus!'
    ]);

GeneralUtility::makeInstance(Mailer::class)->send($mail);
```



The image shows the TYPO3 Backend interface. At the top, there's a toolbar with icons for file operations like create, filter, and refresh. Below the toolbar is a sidebar navigation titled "My new TYPO3 v10 site". Under "Startseite", there are several pages listed: "Eine Unterseite", "Unterseite 1.1", "Unterseite 2", "Unterseite 3", and "Datenschutz". At the bottom of the sidebar, there are two more items: "Datenschutz" and "Unterseite 3". A modal window titled "Create new form" is open in the center. It contains two options: "Blank form" (selected, highlighted with a green border) and "Predefined form". At the bottom of the modal are buttons for "Start", "Configure", "Finish!", "Cancel", "Previous", and "Next".

▼  Email to receiver (you) 

**Subject**

Your message: {subject} {+} ▾

**Recipients**

Email Address	Name	
= erster@example.com	Erster	
= zweiter@example.com	Zweiter	
+		


## Configuration

### Form: YAML Configuration

Enter search phrase

Use regular expression (phrase is surrounded by slashes automatically)

Search

```
▶ .. formManager
▼ .. mixins
  ▶ .. finishersEmailMixin
  ▶ .. formElementMixins
  ▶ .. FormEngineEmailMixin
  ▶ .. translationSettingsMixin
▶ .. persistenceManager
▶ .. prototypes
```

```
▶ .. prototypes
▶ .. persistenceManager
  ▶ .. translationSettingsMixin
  ▶ .. FormEngineEmailMixin
```



```
TYPO3:  
CMS:  
Form:  
  persistenceManager:  
    sortByKeys:  
      - name  
      - identifier  
      - fileUid  
      - persistenceIdentifier  
      - readOnly  
      - removable  
      - location  
      - invalid  
    sortAscending: false
```

# EDIT RECORD WITH LIMITED FIELDS



```
<be:link.editRecord uid="{item.record.uid}"
    table="tt_content"
    fields="header,bodytext,image,hidden"
    title="Bearbeite relevante Felder von {item.record.header}">

    <core:icon identifier="actions-open" size="small" alternativeMarkupIdentifier="inline"/>
    <strong>Bearbeite relevante Felder von "{item.record.header}"</strong>

</be:link.editRecord>
```



```
[feature("redirects.hitCount")]
page.meta {
    redirect-hits = they are still counting ...
}
[END]
```



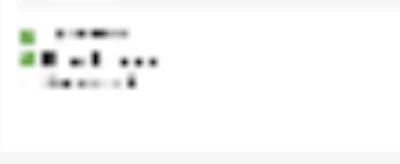
```
config
    htmlTag {
        attributes {
            custom-attribute = some value
            amp =
        }
    }
}
```

## FILE LIST DEFAULT ACTION ON UPLOAD



Some files exist already ×

Some files you wanted to upload exist already on the system. Please select what you want to do with each file.

Original file	Uploaded file	Action
 example-file.png (8.9 KB) 2020-05-03 19:24	example-file.png (37.3 KB) 2020-05-03 19:17	<button data-bbox="2467 944 2988 1073">Rename</button>

**Alternatively, choose a mass action** Rename all files

Cancel Continue with selected actions

## Reset Your Password

To reset your password, enter the email address stored in the backend user account.

[Get Reset Link](#)

Note: If you're using a centralized user management system such as LDAP, OAuth or Active Directory, you might not receive an email.

# COMPARE BACKEND USERS



## Compare backend users

 editor		 editor2																			
<b>Real Name</b>	Editor (editor@example.com)																				
<b>Record information</b>																					
<b>Admin</b>	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> No																			
<b>Is active?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<b>Start</b>	-																				
<b>Stop</b>	-																				
<b>Last login</b>	Never	Never																			
<b>Inherit settings from groups</b>	<table border="1"><tr><th></th><th>Direct</th><th>Inherit</th></tr><tr><td> Gruppe 1</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr></table>			Direct	Inherit	 Gruppe 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<table border="1"><tr><th></th><th>Direct</th><th>Inherit</th></tr><tr><td> Gruppe 2</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr></table>		Direct	Inherit	 Gruppe 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>						
	Direct	Inherit																			
 Gruppe 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>																			
	Direct	Inherit																			
 Gruppe 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>																			
<b>Limit to languages</b>																					
<b>DB mountpoints</b>	 Unterseite 2 [4]		 Startseite [2]																		
<b>File Mounts</b>																					
<b>Fileoperation permissions</b>	<table border="1"><tr><td> Directory: Read</td></tr><tr><td> Directory: Write</td></tr><tr><td> Directory: Add</td></tr><tr><td> Directory: Rename</td></tr><tr><td> Directory: Move</td></tr><tr><td> Directory: Delete</td></tr><tr><td> Files: Read</td></tr><tr><td> Files: Write</td></tr><tr><td> Files: Add</td></tr></table>		 Directory: Read	 Directory: Write	 Directory: Add	 Directory: Rename	 Directory: Move	 Directory: Delete	 Files: Read	 Files: Write	 Files: Add	<table border="1"><tr><td> Directory: Read</td></tr><tr><td> Directory: Write</td></tr><tr><td> Directory: Add</td></tr><tr><td> Directory: Rename</td></tr><tr><td> Directory: Move</td></tr><tr><td> Directory: Delete</td></tr><tr><td> Files: Read</td></tr><tr><td> Files: Write</td></tr><tr><td> Files: Add</td></tr></table>	 Directory: Read	 Directory: Write	 Directory: Add	 Directory: Rename	 Directory: Move	 Directory: Delete	 Files: Read	 Files: Write	 Files: Add
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 Directory: Write																					
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 Directory: Rename																					
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 Directory: Delete																					
 Files: Read																					
 Files: Write																					
 Files: Add																					
<b>System permissions</b>	<table border="1"><tr><td> dba:seit</td></tr><tr><td> jtrW:seit</td></tr><tr><td> Elles:Read</td></tr><tr><td> Directory: Delete</td></tr><tr><td> Directory: Move</td></tr><tr><td> Directory: Write</td></tr><tr><td> Directory: Read</td></tr></table>		 dba:seit	 jtrW:seit	 Elles:Read	 Directory: Delete	 Directory: Move	 Directory: Write	 Directory: Read	<table border="1"><tr><td> dba</td></tr><tr><td> jtrW</td></tr><tr><td> Elles</td></tr><tr><td> Directory: Delete</td></tr><tr><td> Directory: Move</td></tr><tr><td> Directory: Write</td></tr><tr><td> Directory: Read</td></tr></table>	 dba	 jtrW	 Elles	 Directory: Delete	 Directory: Move	 Directory: Write	 Directory: Read				
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 jtrW:seit																					
 Elles:Read																					
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 Elles																					
 Directory: Delete																					
 Directory: Move																					
 Directory: Write																					
 Directory: Read																					

# COMPARE BACKEND USER GROUPS



## Compare backend usergroups

Gruppe 1 [1]		Gruppe 2 [2]																																																				
Record information																																																						
Inherit settings from groups	Group	Direct	Inherit																																																			
	Gruppe 1	✓																																																				
Table permissions																																																						
		Select	Modify																																																			
<table border="1"><thead><tr><th>Table</th><th>Select</th><th>Modify</th></tr></thead><tbody><tr><td>Page [pages]</td><td>✓</td><td>✓</td></tr><tr><td>Record Collection [sys_collection]</td><td>✓</td><td>✗</td></tr><tr><td>File [sys_file]</td><td>✓</td><td>✗</td></tr><tr><td>Website User [fe_users]</td><td>✓</td><td>✗</td></tr><tr><td>Redirect [sys_redirect]</td><td>✓</td><td>✗</td></tr><tr><td>Category [sys_category]</td><td>✓</td><td>✓</td></tr><tr><td>File Metadata [sys_file_metadata]</td><td>✓</td><td>✓</td></tr><tr><td>File Reference [sys_file_reference]</td><td>✓</td><td>✓</td></tr></tbody></table> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>	Table	Select	Modify	Page [pages]	✓	✓	Record Collection [sys_collection]	✓	✗	File [sys_file]	✓	✗	Website User [fe_users]	✓	✗	Redirect [sys_redirect]	✓	✗	Category [sys_category]	✓	✓	File Metadata [sys_file_metadata]	✓	✓	File Reference [sys_file_reference]	✓	✓																											
Table	Select	Modify																																																				
Page [pages]	✓	✓																																																				
Record Collection [sys_collection]	✓	✗																																																				
File [sys_file]	✓	✗																																																				
Website User [fe_users]	✓	✗																																																				
Redirect [sys_redirect]	✓	✗																																																				
Category [sys_category]	✓	✓																																																				
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# ANYTHING MISSING?

## My feature in v11

1. Does the feature already exist as an extension and / or is it relevant to be delivered as a core extension?
2. Drafting concept
3. Create Forge issue (Feature request)
4. Development of the features:  
Can I do it by my own? Do I accept help? Do I promote the feature?
5. Review (Testing) the feature
6. Merge into Master 

- TYPO3 v10 changelog: <https://docs.typo3.org/c/typo3/cms-core/master/en-us/Changelog-10.html>
- DDEV docs: <https://ddev.readthedocs.io/en/stable/>
- Docker: <https://www.docker.com/products/container-runtime>
- Local TYPO3 (by Peter): <https://typo3.com/blog/tutorial-get-a-local-typo3-v10-installation-with-no-effort>
- TYPO3 v10 Installation with DDEV: <https://twitter.com/Cybersmog/status/1252551244545241088>
- Base Distribution Package: <https://github.com/TYPO3/TYPO3.CMS.BaseDistribution>
- Bootstrap Package: [https://github.com/benjaminkott/bootstrap\\_package](https://github.com/benjaminkott/bootstrap_package)
- Custom Dashboard widgets: [https://github.com/o-ba/custom\\_dashboard\\_widgets](https://github.com/o-ba/custom_dashboard_widgets)
- Contribution Guide: <https://docs.typo3.org/m/typo3/guide-contributionworkflow/master/en-us/>
- Blog by Daniel Goerz: <https://usetypo3.com/>

# THANK YOU!