

# TYPO3 X

Neuerungen in der aktuellen LTS

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# AGENDA

- Der Weg zur LTS
- Hands on
- Die Features, zum greifen nah
- Fehlt noch was?

# DER WEG ZUR LTS

# ***BRANCHING 10.0.0-DEV***

- **Dependency Injection (Symfony Service Container)**
- **Event Dispatcher (PSR-14)**
- **Mailer API (Symfony Mime und Mailer)**
- **PSR-3 kompatible Logging API**
- **Form Mail Finisher Verbesserungen**
- **und mehr ...**

- **Site configurations in “site packages”**
- **Automatisch generierte Site configuration**
- **Erstellung Redirects bei “slug” Aktualisierung**
- **Report von Redirect Konflikten**
- **Notification Actions**
- **Import YAML Konfiguration mit relativen Pfaden**
- **und mehr ...**

- **UX Week**
- **Weitere ext:form Verbesserungen**
- **Fluid based ext:felogin**
- **Ersetzung von Hooks und Signal Slots durch PSR-14**
- **Native Paginierung für Listen**
- **Mehrere (verschiedene) Sitemaps**
- **und mehr ...**

- **Dashboard**
- **Fluid based *Page Layout***
- **Fluid based *Email Templates***
- **Erweiterung des *Backend User Moduls***
- **Form YAML Konfiguration im *Configuration Modul***
- **AssetCollector**
- **und vieles mehr ...!**



- **Passwort zurücksetzen (Backend!)**
- **Content Element Filter**
- **Gruppieren und sortieren von “select items”**
- **Flexible “base url” für “slug” Felder**
- **Site settings in TypoScript und TSConfig**
- **Query Restrictions für einzelne Tabellen**
- **und ein bisschen mehr ...**

# HANDS ON

# Installation der neuen LTS

- Installation mit Docker, DDEV und 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
```

# DIE FEATURES, ZUM GREIFEN NAH

# EXTENSION MANAGER FILTERUNG



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

Scripting

Content

Search

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		

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# AUTOMATISCH GENERIERTE SITE CONFIGURATION

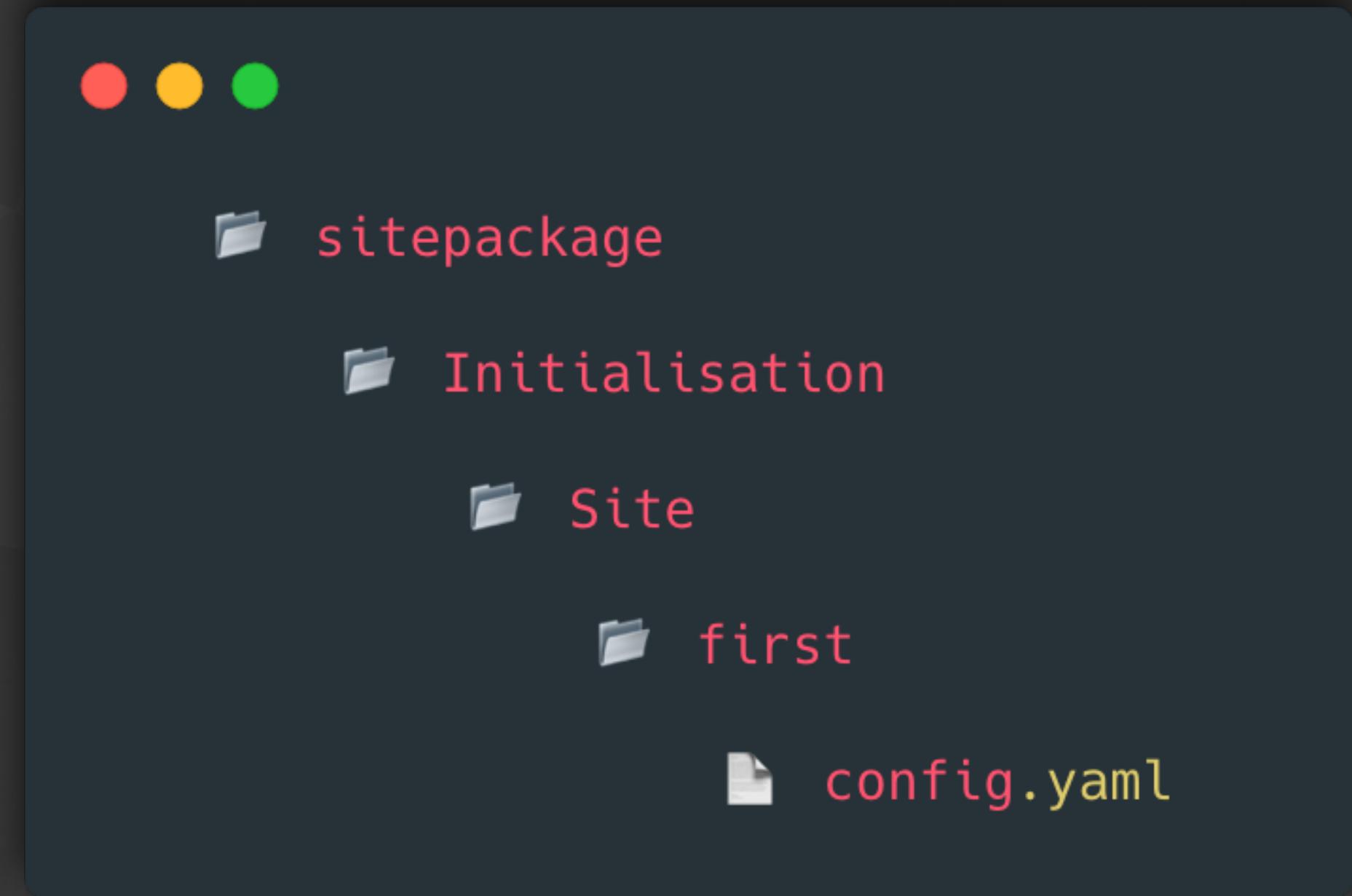


The screenshot shows the TYPO3 v10 Site Configuration page. The left sidebar has a dark theme with various icons and labels for Dashboard, Web (Page, View, List, Forms, Info, Template), Site Management (Sites, Redirects), File (Filelist), Admin Tools (Maintenance), and extensions (sensu, slot, nimb). The main content area is titled "Site Configuration". It displays a table with one row:

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/

At the bottom right of the table are edit and delete icons. The top navigation bar includes icons for star, lightning, question mark, and refresh, along with the user name "typo3\_v10" and a search bar.

# SITE CONFIGURATION IN SITEPACKAGE EXTENSION





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

# SLUG RECREATION // REDIRECT ERSTELLUNG // NOTIFICATION ACTIONS



The screenshot shows the TYPO3 v10.4.1 backend interface. The left sidebar has 'Web' expanded, with 'Page' selected. The main content area shows the tree structure under 'Startseite': 'Unterseite 1' has children 'Unterseite 1.1', 'Unterseite 2', and 'Unterseite 3'. The current page being edited is 'Unterseite 1'. A blue notification bar at the top right says 'Slugs updated and redirects created' with the message: 'Because you renamed a slug, the slugs of all sub-pages were updated and redirects were created for you automatically.' Below the notification are two buttons: 'Revert update' and 'Revert redirects only'. The page edit form shows the title 'Unterseite 1' and the URL segment 'https://typo3v10.ddev.site /unterseite-1'.

Close Save View New Delete   

## 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  

## 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 TOGGLES



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 titled "Settings" and displays a modal window for "Feature Toggles". The modal has a heading "Available features:" and two sections: "Fluid based page module" and "Form: legacy upload mime types". Both sections contain a toggle switch (green circle with a white dot) and descriptive text. In the "Fluid based page module" section, the switch is green and the text says "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" and "Default setting: Disabled". In the "Form: legacy upload mime types" section, the switch is green and the text says "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." and "Default setting: Enabled". A "Save" button is located at the bottom right of the modal. The background of the main content area is dimmed.

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: Disabled**

**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**

+ 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



```
// 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
}
```



```
settings:  
privacyPid: 9
```



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

# DASHBOARD



My new TYPO3 v10 site 10.4.1

Dashboard My dashboard +

About TYPO3

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).

You are using version 10.4.1 - Copyright © 1998-2020 Kasper Skårhøj

3rd party extensions Amount of 3rd party extensions 3

Type of backend users

Recently modified content

- Willkommen
- Pressebilder
- Unsere Produkte

Failed backend logins Failed backend logins In last 24 hours 1

Getting Started with TYPO3

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

Getting Started Tutorial

Type of pages

TYPO3 news

**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

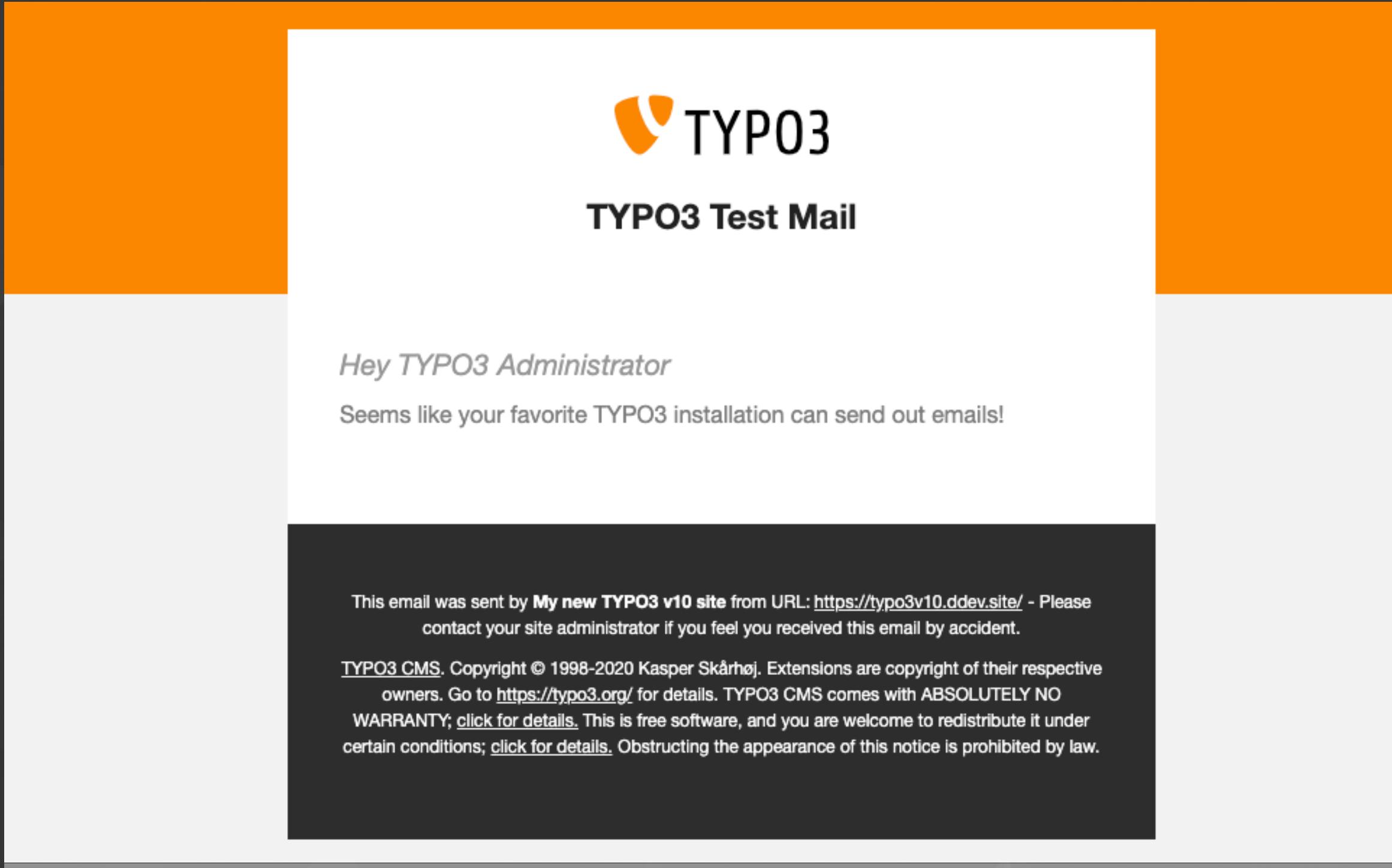
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## T3muc

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 client displaying a test email. The email has a white header and footer area with orange side bars. The header contains the TYPO3 logo and the subject 'TYPO3 Test Mail'. The body of the email starts with a greeting and a message. A dark gray footer bar at the bottom contains legal text about the TYPO3 CMS copyright and license.

**TYPO3 Test Mail**

*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.

**TYPO3 CMS.** Copyright © 1998-2020 Kasper Skårhøj. Extensions are copyright of their respective owners. Go to <https://typo3.org/> for details. TYPO3 CMS comes with ABSOLUTELY NO WARRANTY; [click for details](#). This is free software, and you are welcome to redistribute it under certain conditions; [click for details](#). Obstructing the appearance of this notice is prohibited by law.

# FLUID BASED EMAILS ANPASSEN

A screenshot of a fluid-based TYPO3 test mail template. The template features a blue header bar with the TYPO3 logo and the text "TYPO3 Test Mail". Below this is a white content area containing a greeting, a message, and a footer. The footer is enclosed in a black box and contains copyright information.

**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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# FLUID BASED EMAILS ANPASSEN

A screenshot of a fluid-based TYPO3 test mail template. The template has a blue header and footer and a white central content area. It features the orange X logo of TYPO3, the text "TYPO3 Test Mail", and a message to a TYPO3 administrator. The message includes a link represented by a dark grey rectangle.

**TYPO3 Test Mail**

*Hey TYPO3 Administrator*

Seems like your favorite TYPO3 installation can send out emails!

My custom fluid email template! 🎉

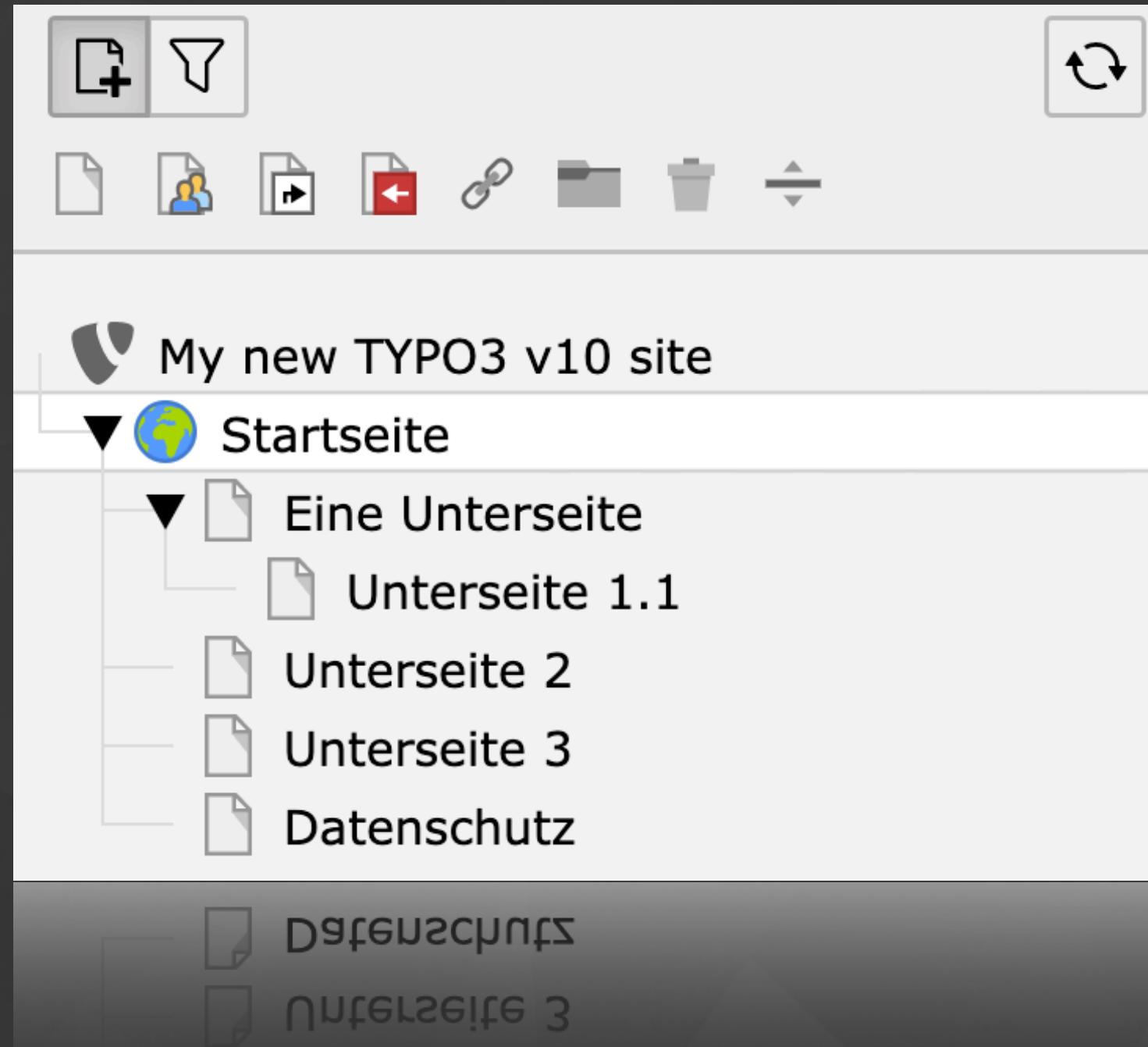


```
$mail = GeneralUtility::makeInstance(MailMessage::class)
    ->to(new Address('some@email.com', 'John Doe'))
    ->subject('E-Mail von unserer neuen TYPO3 v10 Installation')
    ->text('TYPO3 10 LTS ist da! Probieren Sie es doch gleich mal aus!')
    ->html(
        '<h2>TYPO3 10 LTS ist da!</h2>'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

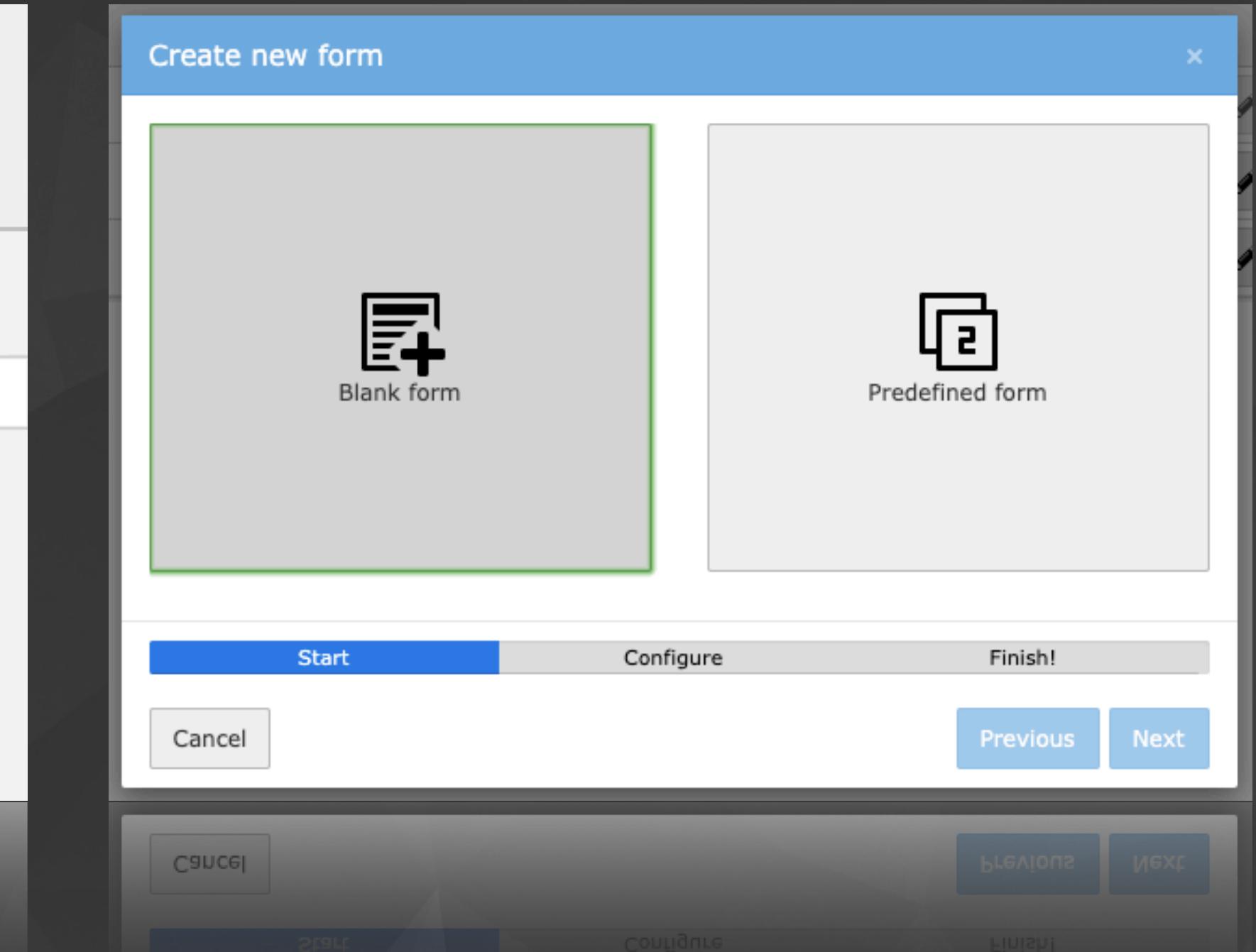


```
$mail = GeneralUtility::makeInstance(FluidEmail::class)
    ->to(new Address('some@email.com', 'John Doe'))
    ->subject('Fluid E-Mail von unserer neuen TYPO3 v10 Installation')
    ->assignMultiple([
        'headline' => 'TYPO3 10 LTS ist da!',
        'content' => 'Probiert es doch gleich mal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

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



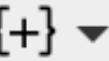
A screenshot of the TYPO3 backend interface. At the top, there's a toolbar with icons for creating new files/folders, filtering, and a refresh symbol. Below the toolbar is a navigation sidebar titled "My new TYPO3 v10 site". It shows a tree structure of pages: "Startseite" (with "Eine Unterseite" and its sub-page "Unterseite 1.1"), "Unterseite 2", "Unterseite 3", and "Datenschutz". At the bottom of the sidebar, there are links for "Datenschutz" and "Unterseite 3".



A screenshot of a modal dialog box titled "Create new form". It contains two options: "Blank form" (selected, indicated by a green border) and "Predefined form". At the bottom of the dialog 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
```



```
<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]
```

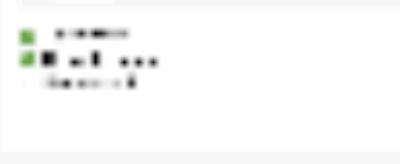


```
config
    htmlTag {
        attributes {
            custom-attribute = some value
            amp =
        }
    }
}
```

## Some files exist already

x

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>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

 editor		 editor2																			
<b>Real Name</b>	Editor (editor@example.com)																				
<b>Record information</b>																					
<b>Admin</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		
<b>Is active?</b>	<input checked="" type="checkbox"/>	<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><tr><td> Gruppe 2</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"/>	 Gruppe 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<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><tr><td> Gruppe 2</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"/>	 Gruppe 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Direct	Inherit																			
 Gruppe 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>																			
 Gruppe 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>																			
	Direct	Inherit																			
 Gruppe 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>																			
 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
 Directory: Read																					
 Directory: Write																					
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 Directory: Write																					
 Directory: Add																					
 Directory: Rename																					
 Directory: Move																					
 Directory: Delete																					
 Files: Read																					
 Files: Write																					
 Files: Add																					
<b>System permissions</b>	<table border="1"><tr><td> User: Read</td></tr><tr><td> User: Write</td></tr><tr><td> User: Add</td></tr><tr><td> User: Delete</td></tr><tr><td> User: Move</td></tr><tr><td> User: Rename</td></tr></table>			 User: Read	 User: Write	 User: Add	 User: Delete	 User: Move	 User: Rename												
 User: Read																					
 User: Write																					
 User: Add																					
 User: Delete																					
 User: Move																					
 User: Rename																					

# BENUTZERGRUPPEN VERGLEICHEN



## Compare backend usergroups

Gruppe 1 [1]		Gruppe 2 [2]			
<b>Record information</b>					
Inherit settings from groups	Gruppe 1	Direct	Inherit		
	Gruppe 1	✓			
<b>Table permissions</b>					
		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]	✓	✓		
	Page [pages]	✓	✗		
	Category [sys_category]	✓	✗		
	Record Collection [sys_collection]	✓	✗		
	File [sys_file]	✓	✗		
	File collection [sys_file_collection]	✓	✗		
	Website Usergroup [fe_groups]	✓	✗		
	Website User [fe_users]	✓	✗		
	Page Content [tt_content]	✓	✗		
	Redirect [sys_redirect]	✓	✗		
	Internal note [sys_note]	✓	✗		
	Accordion Item [tx_bootstrappackage_accordion_item]	✓	✗		
	Card [tx_bootstrappackage_card_group_item]	✓	✗		
	Carousel Item [tx_bootstrappackage_carousel_item]	✓	✗		
	Icon Group Item [tx_bootstrappackage_icon_group_item]	✓	✗		
	Tab Item [tx_bootstrappackage_tab_item]	✓	✗		
	Timeline Item [tx_bootstrappackage_timeline_item]	✓	✗		

**FEHLT NOCH  
WAS?**

## Mein Feature in v11

1. Gibt es das Feature schon als Extension und / oder ist es relevant in einer core Extension ausgeliefert zu werden?
2. Erarbeitung Konzept
3. Erstellung Forge Issue (Feature request)
4. Entwicklung des Features:  
Kann ich das selber? Hole ich mir Hilfe? Promote ich das Feature?
5. Review (Testen) des Features
6. Merge into Master 

- TYPO3 v10 changelog: <https://docs.typo3.org/c/typo3/cms-core/master/en-us/Changelog-10.html>
- DDEV Doku: <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 mit 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 von Daniel Goerz: <https://usetypo3.com/>

# THANK YOU!