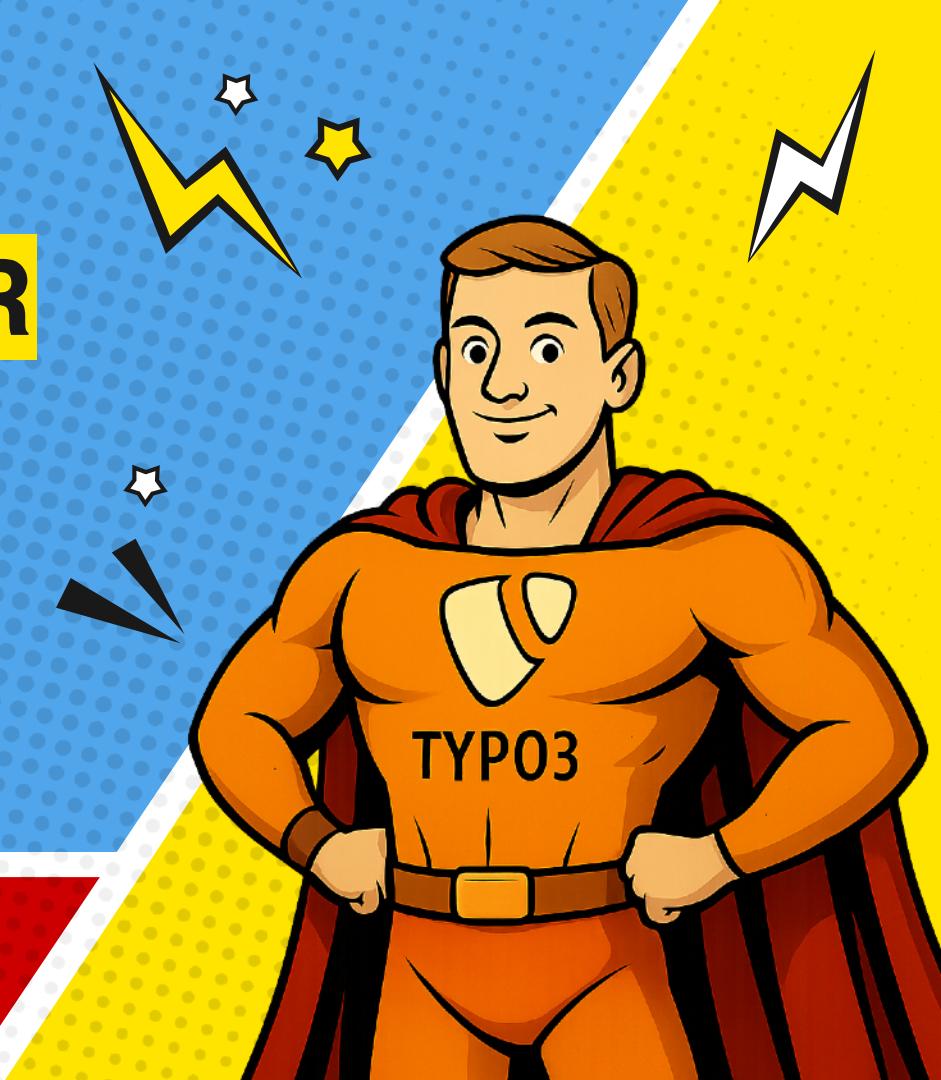
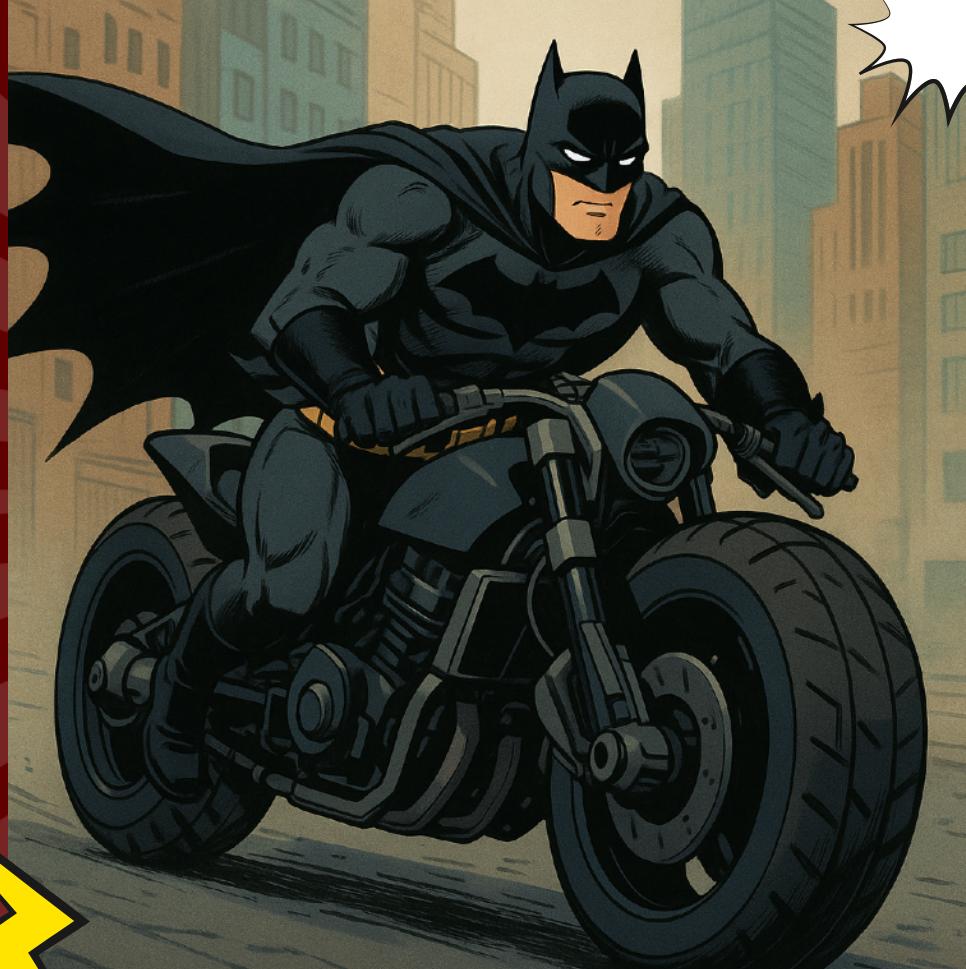
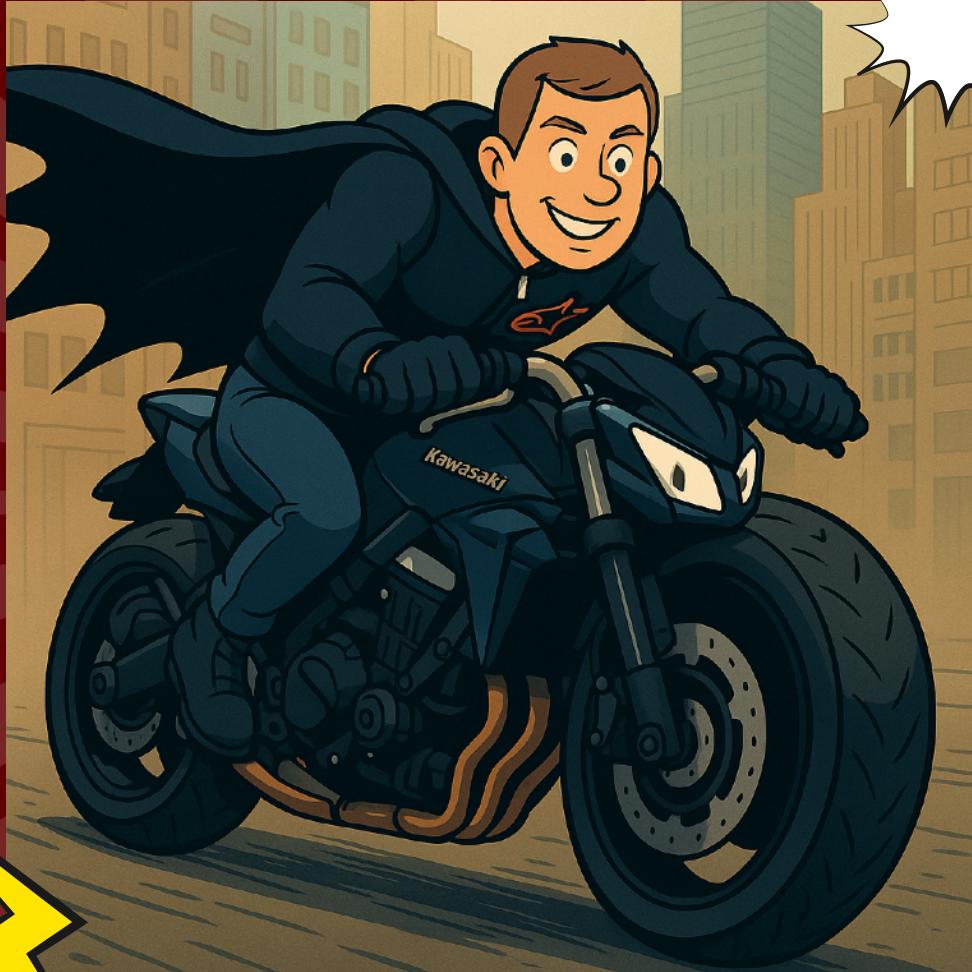


UNLEASH YOUR SUPERPOWER

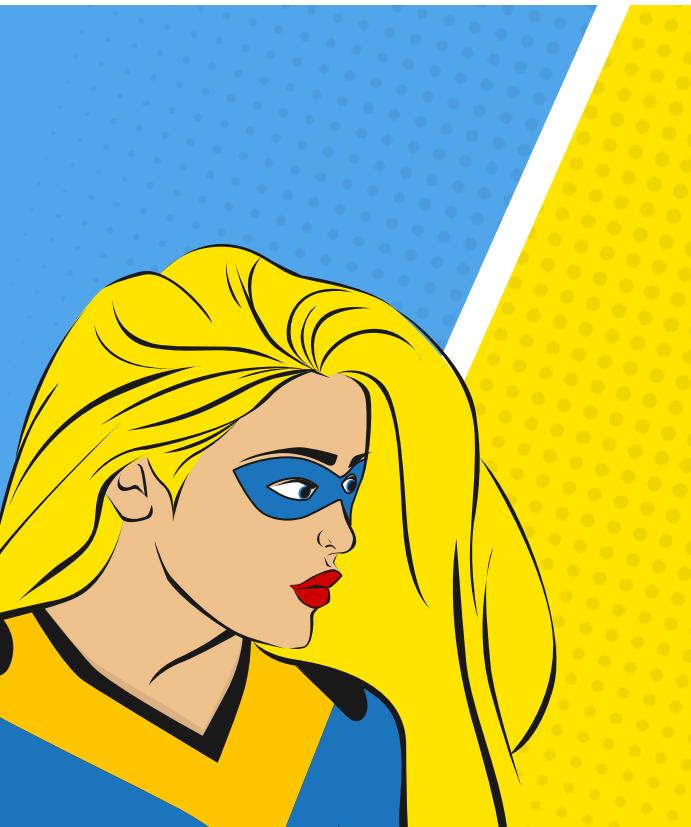
EXPLORING NEW TYPO3 FEATURES





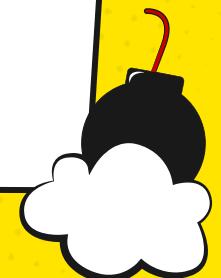


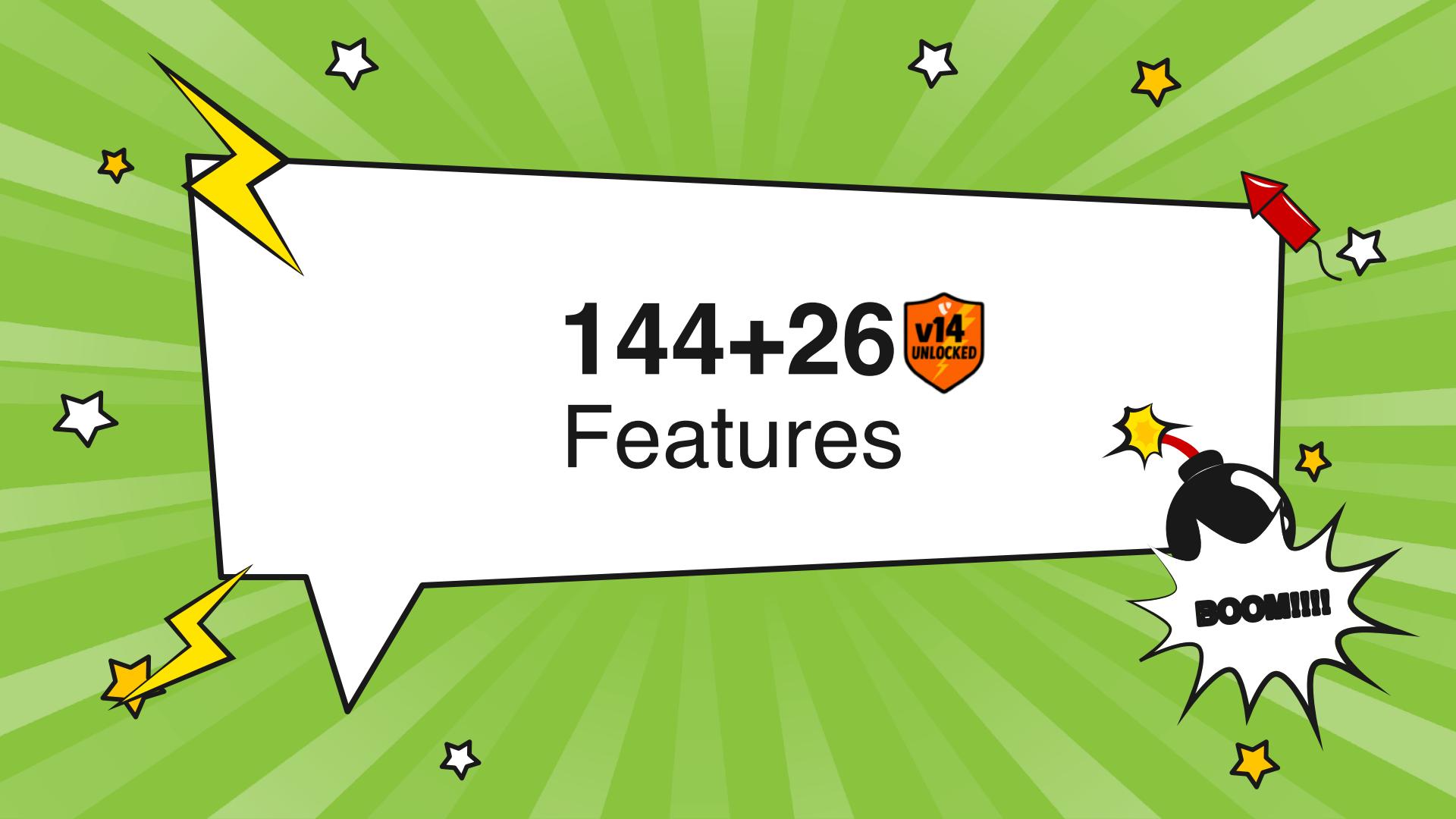
VERSION COMPARISON



Version	Usage	Trend
10.4	12,5 %	➡ (-1,1)
11.5	19,8 %	➡ (-1,2)
12.4	19,1 %	➡ (+3,9)
13.4	1,93 %	➡ (+1,4)

Source: <https://www.t3versions.com>





144+26

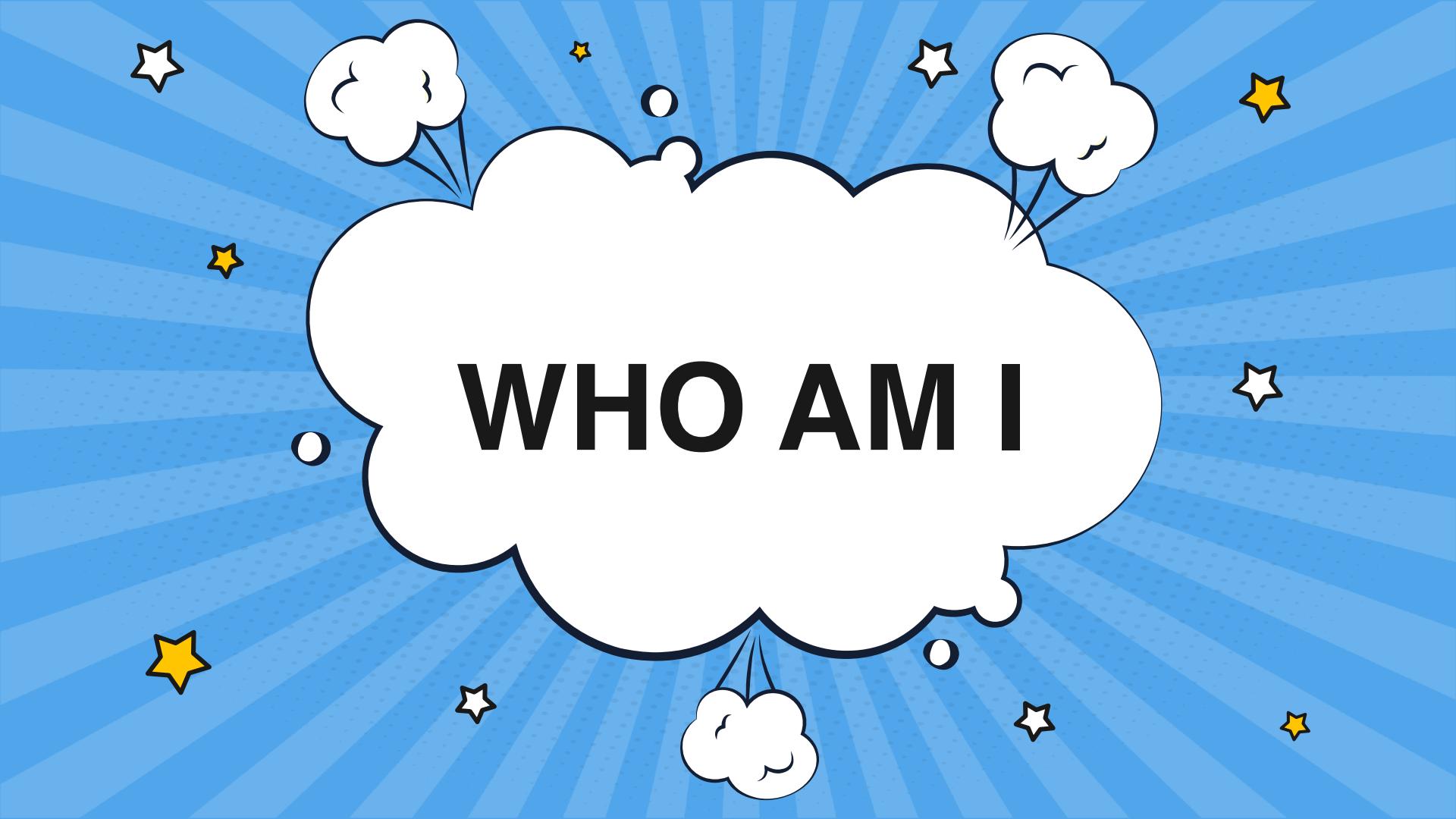
Features



BOOM!!!!

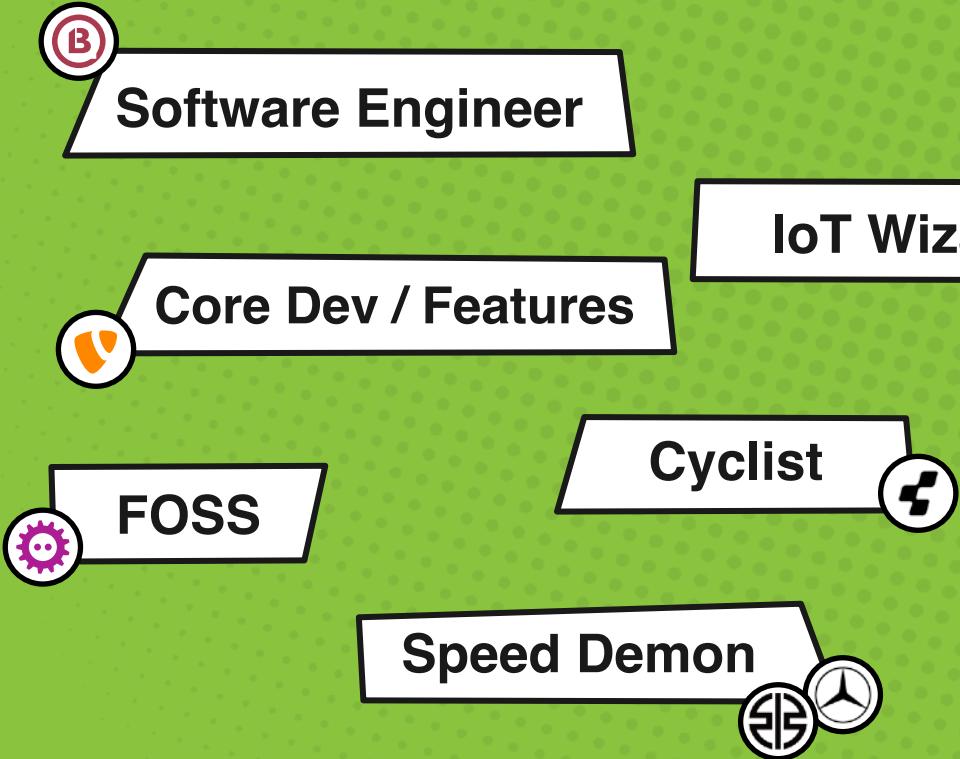
Little Gems in TYPO3 v13 and v14

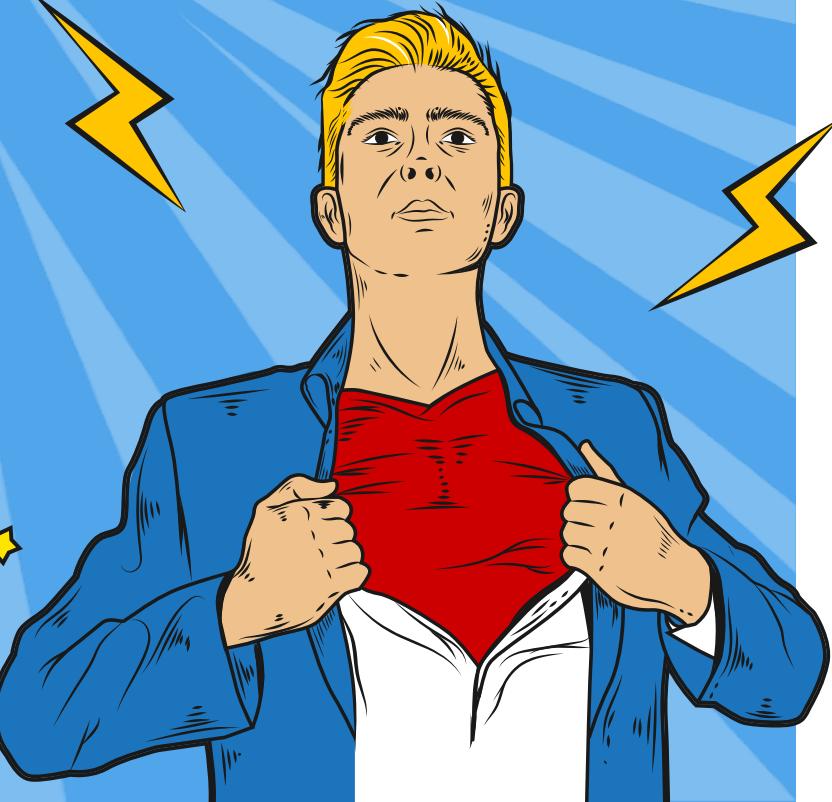




WHO AM I

OLI BARTSCH





Content Heros

The digital stage is your battlefield.

Backend Ninjas

Molding TYPO3 to fit any challenge.

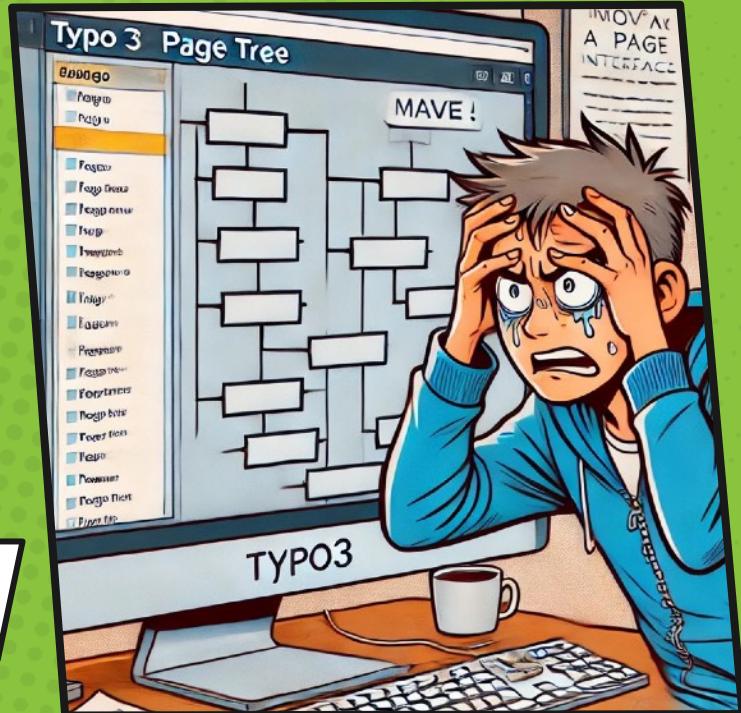
Code Warriors

Supercharging TYPO3 from the inside out.

Marking pages? Disco mode on!

Resizing the Page Tree? Forget it!

Dragging pages? Command & Conquer!



REACTIVE PAGE TREE



The screenshot shows the TYPO3 Backend interface. On the left, the page tree is displayed with the following structure:

- [0] TYPO3 Demo
- [1] TYPO3 Demo Site (selected)
- [2] Fun facts
- [3] Kinds of apples (selected)
- [17] Belle de Boskoop
- [18] Braeburn
- [19] Elstar
- [20] Cox Orange
- [21] Gala
- [22] Gloster
- [23] Golden Delicious
- [24] Granny Smith
- [25] Jonagold
- [26] Pink Lady
- [4] Recipes

The right panel shows the content of the selected page [3] Kinds of apples. It includes a title "TYPO3 Demo", a "More information" button, and a "Stage Content" section. The "Stage Content" section contains a "Keyvisual" placeholder with the text "An apple a day".

The screenshot shows the TYPO3 Backend interface after a change has been made. The page tree now reflects the following structure:

- [0] TYPO3 Demo
- [1] TYPO3 Demo Site (selected)
- [2] Fun facts
- [3] Kinds of apples (selected)
- [17] Belle de Boskoop
- [18] Braeburn
- [155] Rhode Island Greening...
- [19] Elstar
- [20] Cox Orange
- [21] Gala
- [22] Gloster
- [23] Golden Delicious
- [24] Granny Smith
- [25] Jonagold
- [26] Pink Lady

The right panel shows the updated content of the selected page [3] Kinds of apples. The "Stage Content" section now includes a "Keyvisual" placeholder with the text "An apple a day".

The screenshot shows the TYPO3 Backend interface. On the left, the file structure tree displays various pages like 'Fun facts', 'Kinds of apples', 'Recipes' (with sub-items for Apple Pie, Fruit Brandy, etc.), 'FAQ', 'Login', and 'Footer'. A red dashed rectangle highlights the 'Recipes' section. On the right, the 'Stage Content' view shows a key visual of apples with the text 'An apple a day keeps the doctor away'. Below it is a snippet of text about apples being special fruits.



Labels



Status Information

Enter search term

Language

Path: / TYPO3 Demo Site [1]

[0] TYPO3 Demo - Development/DDEV

[1] TYPO3 Demo Site

- [2] Fun facts
- [3] Kinds of apples
- [4] Recipes
 - [39] Apple Pie
 - [41] Fruit Brandy
 - [44] Cinnamon Overnight Oats
 - [45] Apple Pancakes
 - [148] Apple Mille-Feuille with Vanili...
 - [53] Apple Cucumber Smoothie
 - [54] Apple Cinnamon Tea
- [56] FAQ
- [16] Login
- [29] 404
- [49] 403
- [50] Error
- [146] Search
- [6] Footer
- [11] Profile Links
- [36] FAQs
- [51] Frontend Users

+ More information about this project

English

TYPO3 Demo Site

Stage Content

+ Create new content

Main Content

+ Create new content

Main Teaser

Main Teaser
Apples, apples, apples

Apples are fascinating. You've been eating them ever since you were young and you're probably still buying them regularly. You might even have an apple tree growing in your backyard. But we're pretty sure there still are some fun facts you don't know about this underestimated fruit.



Enter search term

Language

[0] TYPO3 Demo - Development/DDEV

[1] TYPO3 Demo Site

- [2] Fun facts
- [3] Kinds of apples
- [4] Recipes
 - [39] Apple Pie
 - [41] Fruit Brandy
 - [44] Cinnamon Overnight Oats
 - [45] Apple Pancakes
 - [48] Apple Mille-Feuille with Vanilla Custard
 - [53] Apple Cucumber Smoothie
 - [54] Apple Cinnamon Tea
- [56] FAQ
- [16] Login
- [29] 404
- [49] 403
- [50] Error
- [146] Search
- [6] Footer
- [11] Profile Links
- [36] FAQs
- [51] Frontend Users

TYPO3 Demo Site

+ More information about this project

English

TYPO3 Demo Site

Stage Content

+ Create new content

Keyvisual

An apple a day keeps the doctor away



Did you know this familiar old saying, from 1866, has proven to be true? Apples are indeed special fruits containing important substances that are essential to the body's functions. It is even said that eating apples on a regular basis can extend your life expectancy - if you eat them raw.

Welcome to the TYPO3 Demo project!

Main Content

+ Create new content

Enter search term

Language

[0] TYPO3 Demo - Development/DDEV

[1] TYPO3 Demo Site

- [2] Fun facts
- [3] Kinds of apples
- [4] Recipes
 - [39] Apple Pie
 - [41] Fruit Brandy
 - [44] Cinnamon Overnight Oats
 - [45] Apple Pancakes
 - [48] Apple Mille-Feuille with Vanilla Custard
 - [53] Apple Cucumber Smoothie
 - [54] Apple Cinnamon Tea
- [56] FAQ
- [16] Login
- [29] 404
- [49] 403
- [50] Error
- [146] Search
- [6] Footer
- [11] Profile Links
- [36] FAQs
- [51] Frontend Users

TYPO3 Demo Site

+ More information about this project

English

TYPO3 Demo Site

Stage Content

+ Create new content

Keyvisual

An apple a day keeps the doctor away



Did you know this familiar old saying, from 1866, has proven to be true? Apples are indeed special fruits containing important substances that are essential to the body's functions. It is even said that eating apples on a regular basis can extend your life expectancy - if you eat them raw.

Welcome to the TYPO3 Demo project!

Main Content

+ Create new content



TYPO3 Demo - Development/DDEV
13.4.3

Dashboard Web Page View List FAQ Forms Info File Site Management Admin Tools System Permissions Backend Users Scheduler DB Check Configuration

+ Create new form

Form Management

Search term

Form name	Location	Integrity	Ref
Contact Form	EXT:site_t3demo/Resources/Private/Plugins/Form/Forms/contactForm.form.yaml	1	[] [] []
Kontaktanzeige	1:/form_definitions/kontaktanzeige.form.yaml	-	[] [] []
Kontaktformular	EXT:site_t3demo/Resources/Private/Plugins/Form/Forms/contactForm_de.form.yaml	1	[] [] []
טלפון יצירתי דאש	EXT:site_t3demo/Resources/Private/Plugins/Form/Forms/contactForm_he.form.yaml	1	[] [] []
4 forms			

The screenshot shows the TYPO3 CMS Backend interface. The top bar displays "TYPO3 Demo - Development/DDEV" and "13.4.3". The right side of the top bar includes a star icon, a lightning bolt icon, a question mark icon, a user icon labeled "admin", and a notification badge with the number "14".

The left sidebar contains a navigation menu with the following items:

- Dashboard
- Web
 - Page
 - View
 - List
 - FAQ
 - Forms
 - Workspaces
- Info
- File
- Site Management
- Admin Tools
- Maintenance
- Settings
- Upgrade
- Environment
- Content Security Policy

The "Page" item is currently selected and highlighted in red.

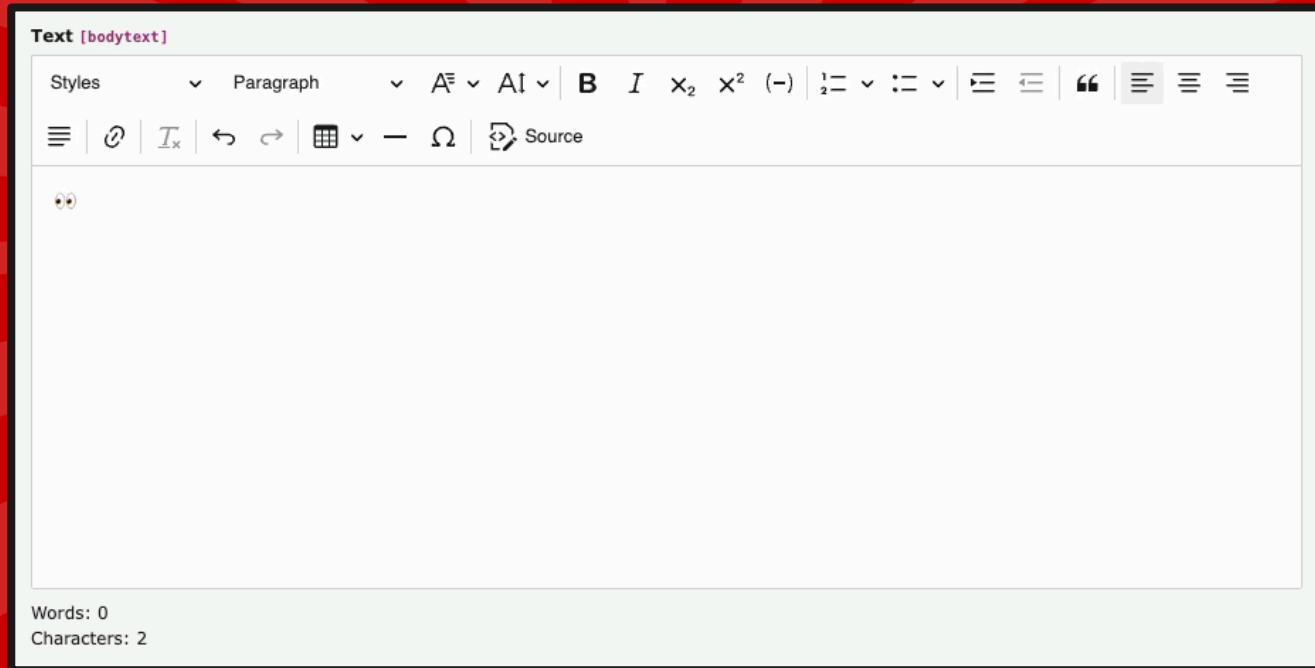
The main content area shows the "Page" module. The title "TYPO3 Demo Site" is displayed above a green banner with the text "+ More information about this project". Below the banner, the language "English" is selected. The "Stage Content" section contains a "Keyvisual" with the text "An apple a day keeps the doctor away" and a small image of apples. A note below states: "Did you know this familiar old saying, from 1866, has proven to be true? Apples are indeed special fruits containing important substances that are essential to the body's functions. It is even said that eating apples on a regular basis can extend your life expectancy - isn't that amazing?". At the bottom of the content area, there is a message: "Welcome to the TYPO3 Demo project!"



Welcome to the dark side!

The screenshot shows the TYPO3 CMS Backend interface. The top navigation bar includes the title "TYPO3 Demo 13.4.15", a search bar, and user information for "belmen". A dropdown menu shows "Light mode" is currently selected. The left sidebar contains links for Dashboard, Web (Page, View, List, Forms, Info), File (Filelist), and a list of recent files. The main content area displays the "TYPO3 Demo Site" page, which features a green header bar with a link to "More information about this project". Below this is the "Stage Content" section, which includes a "Keyvisual" placeholder with the text "An apple a day keeps the doctor away" and a note about apples being good for health. The "Main Content" section at the bottom has a "Main Teaser" placeholder with the text "Welcome to the TYPO3 Demo project!". There are also "Create new content" buttons in both sections.

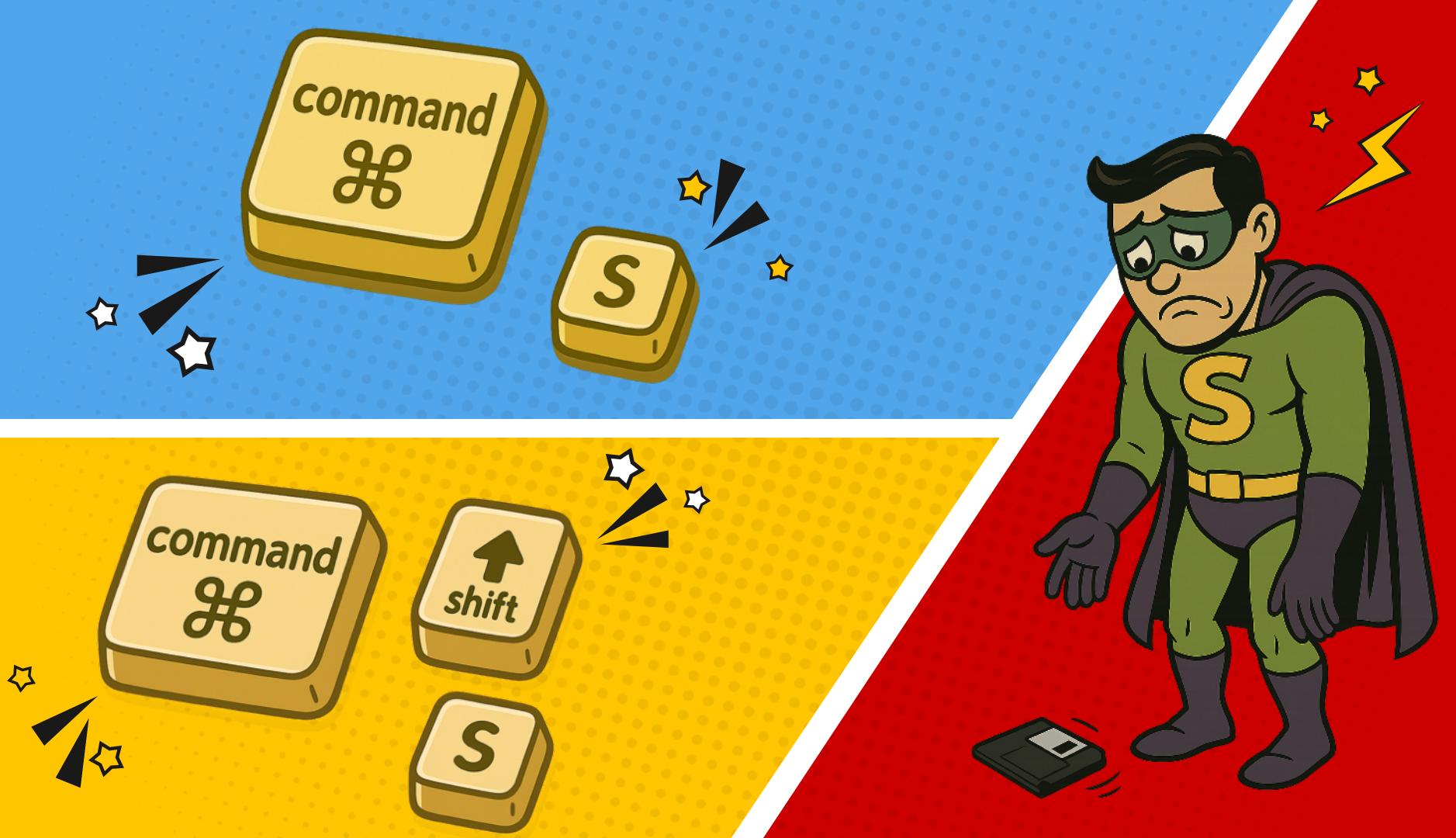
Work comfortably, even in the darkest hours!



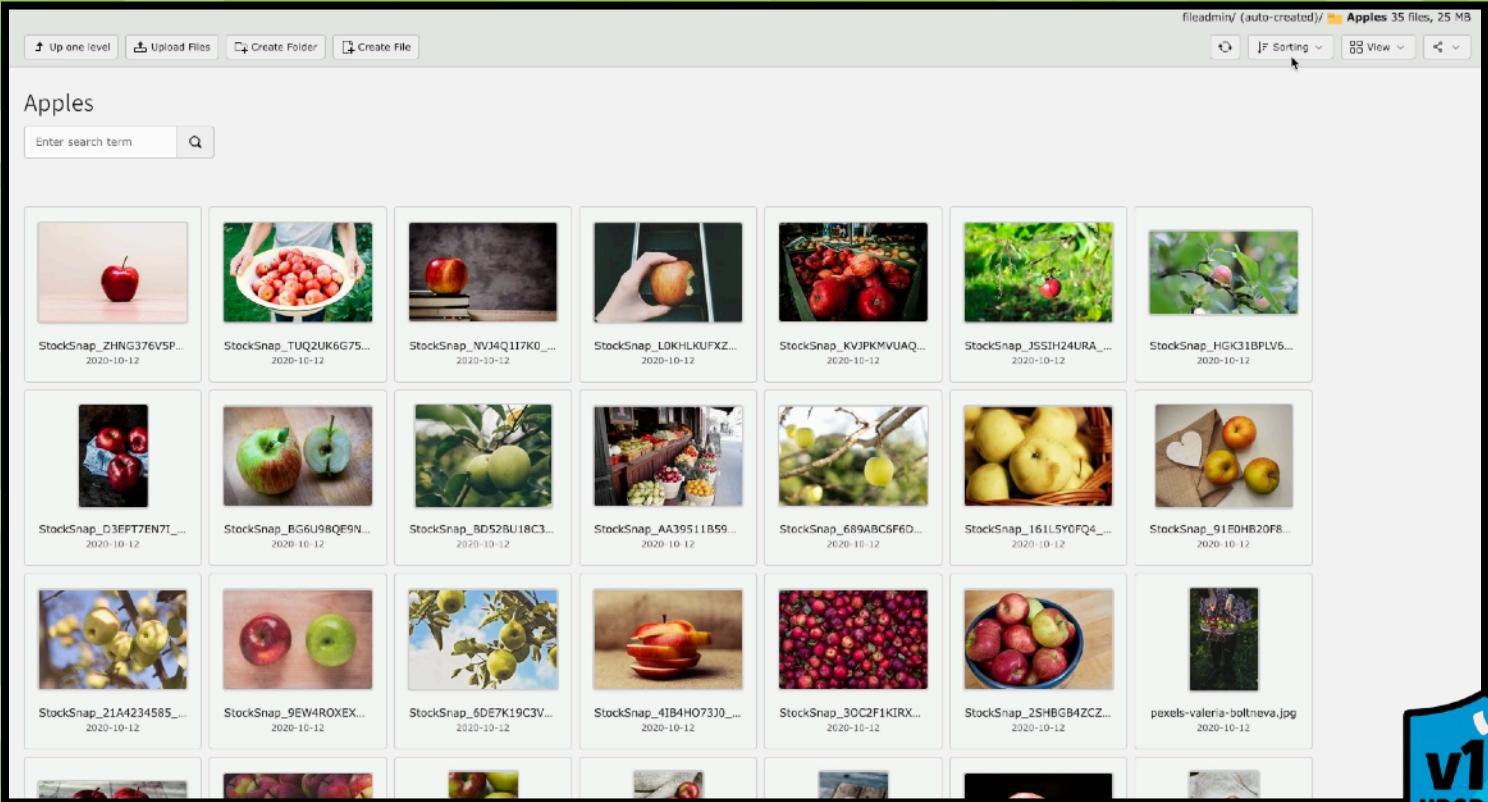
Stop squinting at your extensions!

The screenshot shows the TYPO3 Backend Extensions list. At the top, there is a message: "Composer mode. The system is set to composer mode. Please notice that this list is for informational purpose only. To modify which extensions are part of the system, use Composer. To set extensions up, use the TYPO3 di (extension-setup)." Below this, the "Installed Extensions" section is displayed. It includes a search bar and filters for "All", "System", and "Local". The table lists the following extensions:

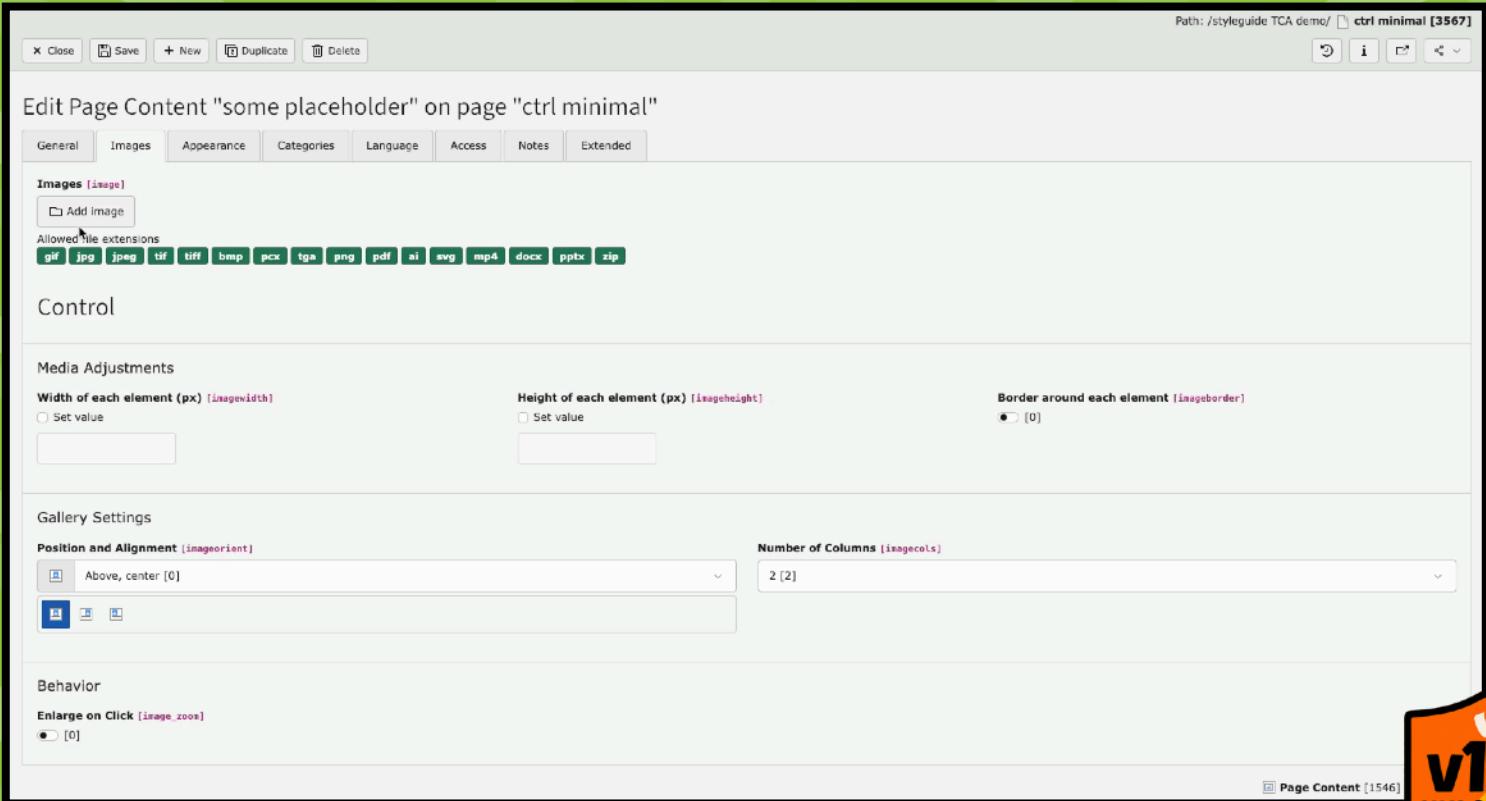
Upd.	A/D	Extension	Key	Version	State	Type	Actions
		Asset collector	assetcollector	3.0.0	stable	Local	[Edit]
		TYPO3 CMS Backend	backend	v13.4.15	stable	System	[Edit]
		Enhanced Fluid based backend element previews	backendpreviews	1.4.0	stable	Local	[Edit]
		TYPO3 CMS Log	belog	v13.4.15	stable	System	[Edit]
		TYPO3 CMS Backend User	beuser	v13.4.15	stable	System	[Edit]
		Content Defender	content_defender	3.5.1	stable	Local	[Edit]
		TYPO3 CMS Core	core	v13.4.15	stable	System	[Edit]
		Content type "CTA"	cta	2.1.1	stable	Local	[Edit]
		TYPO3 CMS Dashboard	dashboard	v13.4.15	stable	System	[Edit]







v13
UPGRADED



This Window

+ New Tab

Filelist - user_upload - TYPO3...
Videodetails - YouTube Studio

TYPO3 Demo - Development/DDEV
13.4.3

Enter search term

fileadmin/ (auto-created) user_upload 3 files, 11 B

Up one level Upload Files Create Folder Create File

View

user_upload

Enter search term

Name	Control	Type	Size	RW	Ref
Temporary files (_temp_)	<input type="button" value="Delete"/> <input type="button" value="More"/>	Folder	1 File	RW	-
index.html	<input type="button" value="Edit"/> <input type="button" value="More"/> <input type="button" value="Preview"/> <input type="button" value="Delete"/>	File (HTML)	0 B	RW	-
Annoying_Orange_hey_apple.yi	<input type="button" value="Edit"/> <input type="button" value="More"/> <input type="button" value="Preview"/> <input type="button" value="Delete"/>	File (YOUTUBE)	11 B	RW	3

Clipboard

Normal (single record mode)

Clipboard #1 (multi-selection mode)

Clipboard #2 (multi-selection mode)

Clipboard #3 (multi-selection mode)

The screenshot shows the TYPO3 Fileadmin interface within a browser window. The main area displays the contents of the 'user_upload' folder under 'fileadmin/ (auto-created)'. The folder contains three files: 'Temporary files (_temp_)', 'index.html', and 'Annoying_Orange_hey_apple.yi'. The 'Temporary files (_temp_)' folder is expanded, showing it contains no files. The 'index.html' file is a standard HTML file, and the 'Annoying_Orange_hey_apple.yi' file is a YouTube video file. The interface includes a sidebar with various file management icons (e.g., upload, download, move, delete), a search bar, and a toolbar with buttons for navigating the file structure and performing actions like uploading files or creating new folders. A clipboard section at the bottom allows users to switch between different clipboard modes (Normal, Clipboard #1, Clipboard #2, Clipboard #3). The overall theme is light gray with orange accents.



You are now an official TYPO3 Content Hero!

New Page Tree

Drag & Drop like a Pro

Move Content

No More Copy-Paste Hassles

Supercharged Search

Find Everything -
Instantly and with Ease

Hotkeys

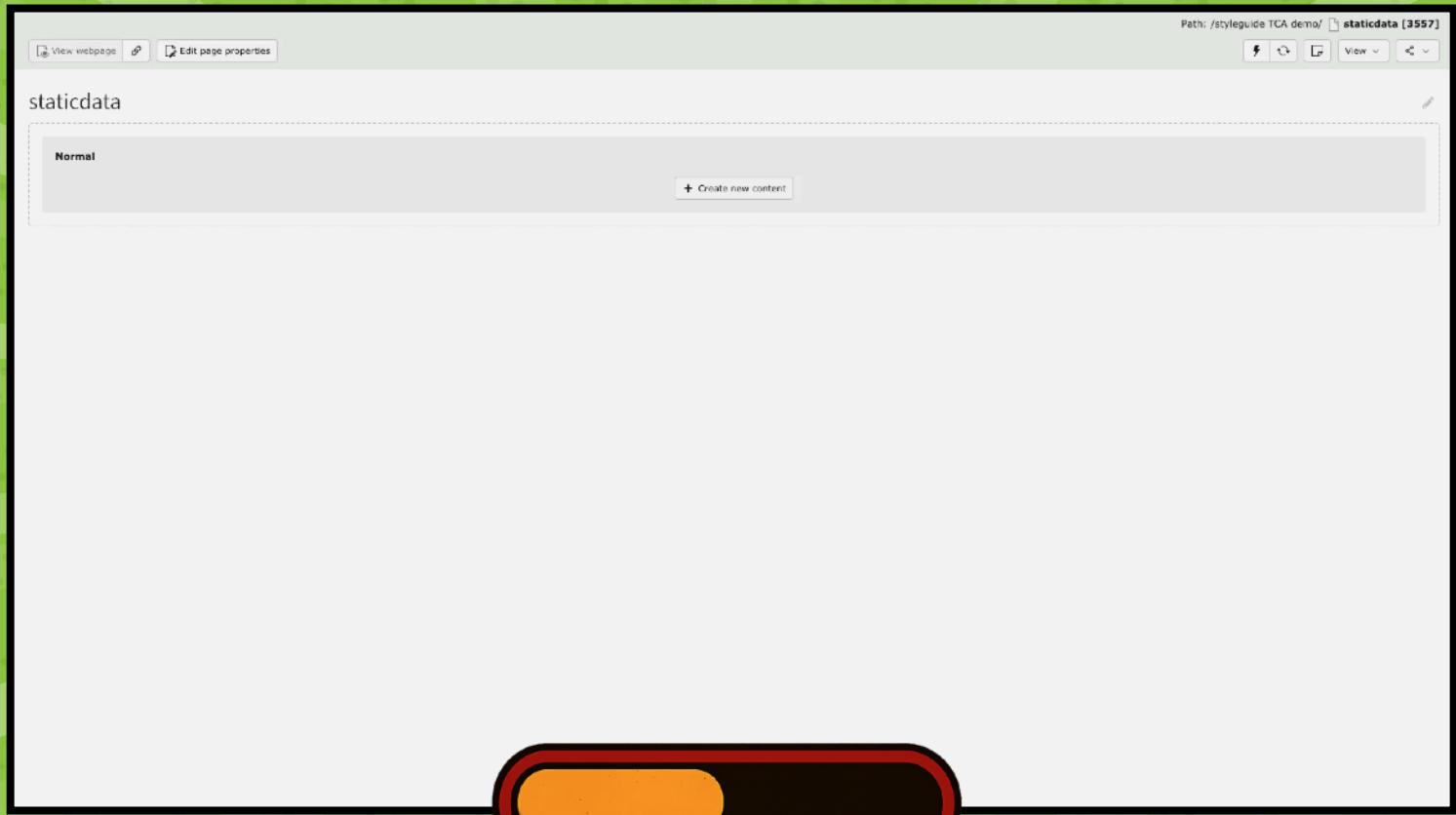
Super Speed for Power Users

Dark Mode

Work in Style (and Comfort!)

Filelist

Metadata & Inline Editing at
Your Fingertips



[View webpage](#) [Edit page properties](#)

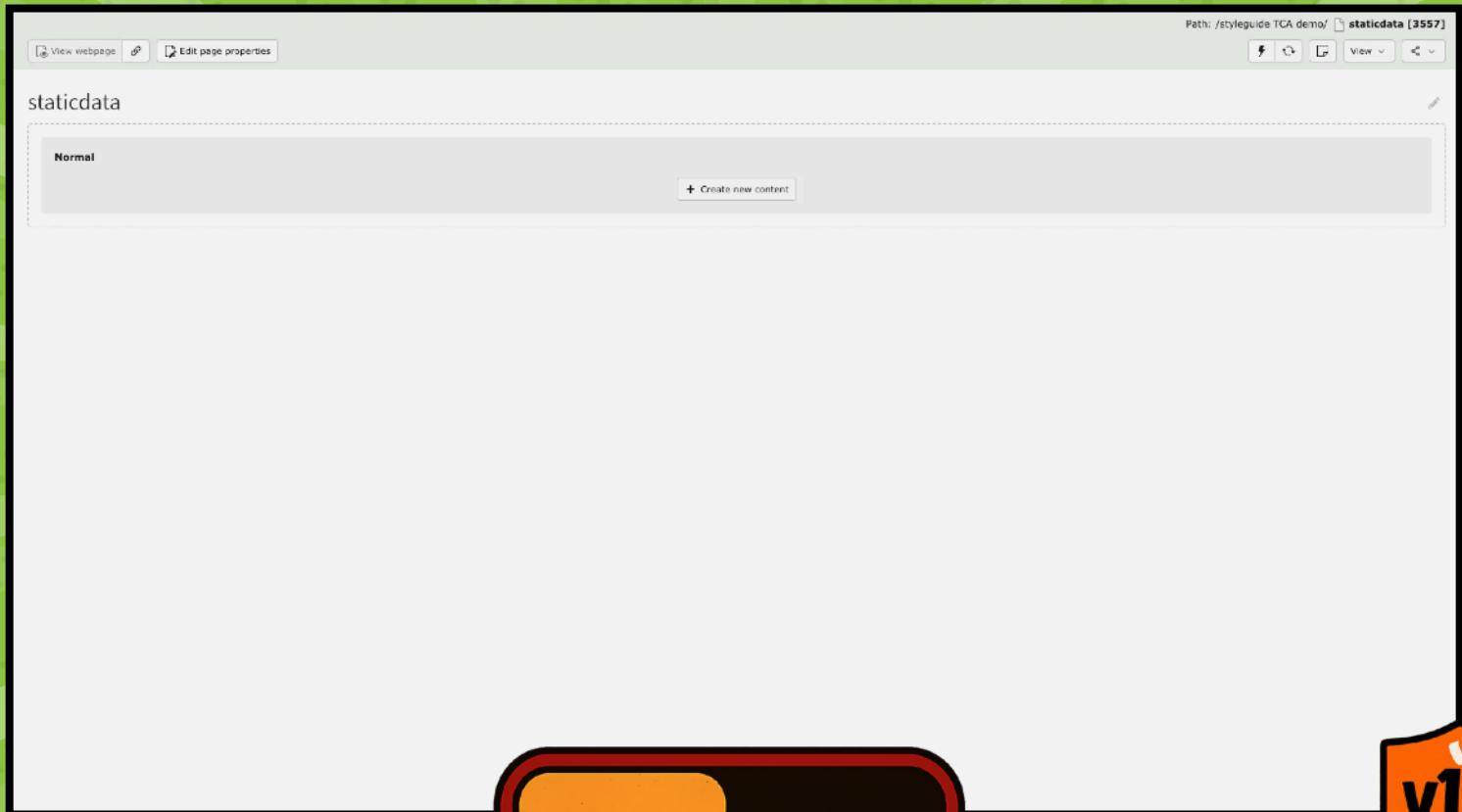
Path: /styleguide/TCA demo/ staticdata [3557]

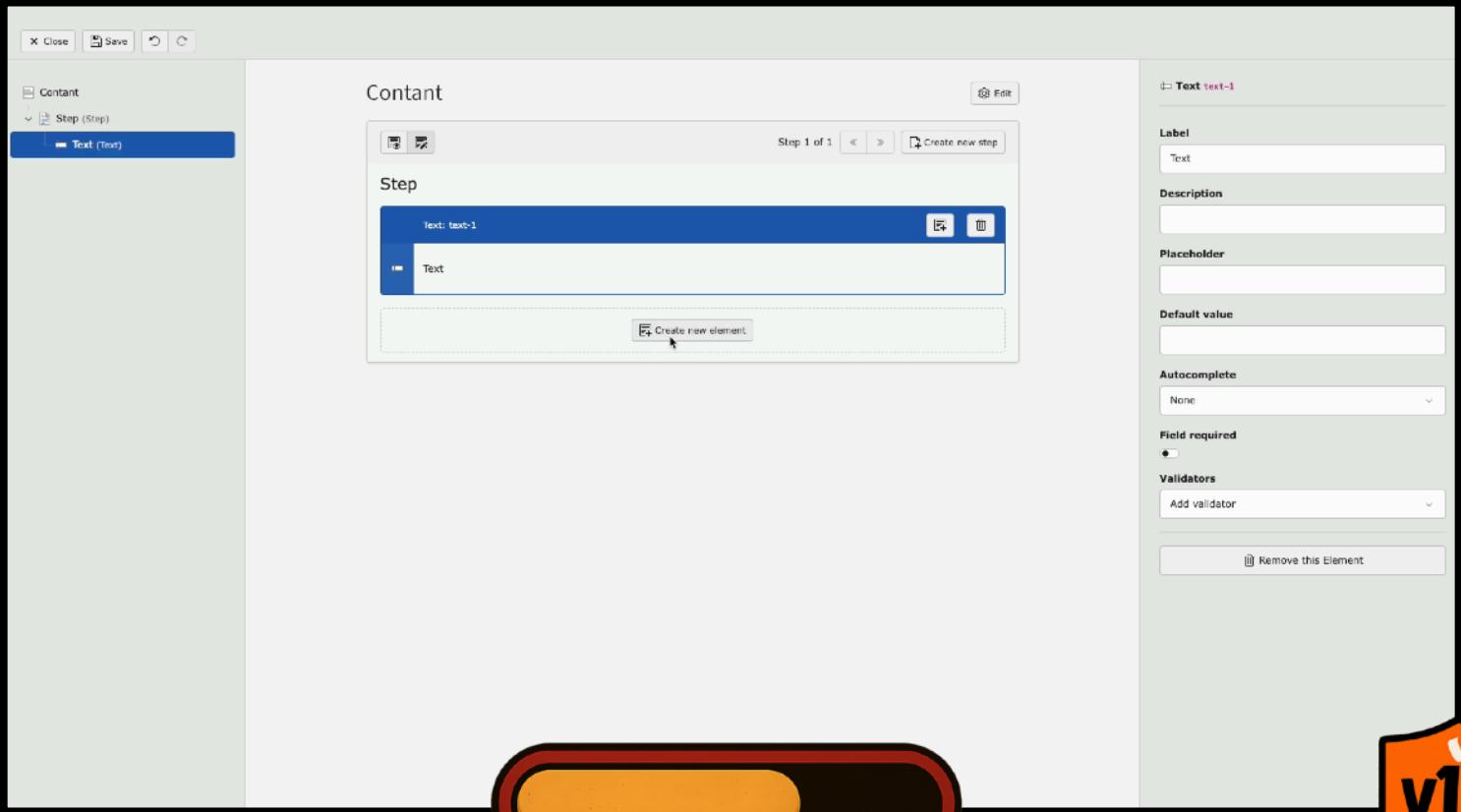
[View](#) [Edit](#) [Delete](#) [View](#) [Edit](#) [Delete](#)

staticdata

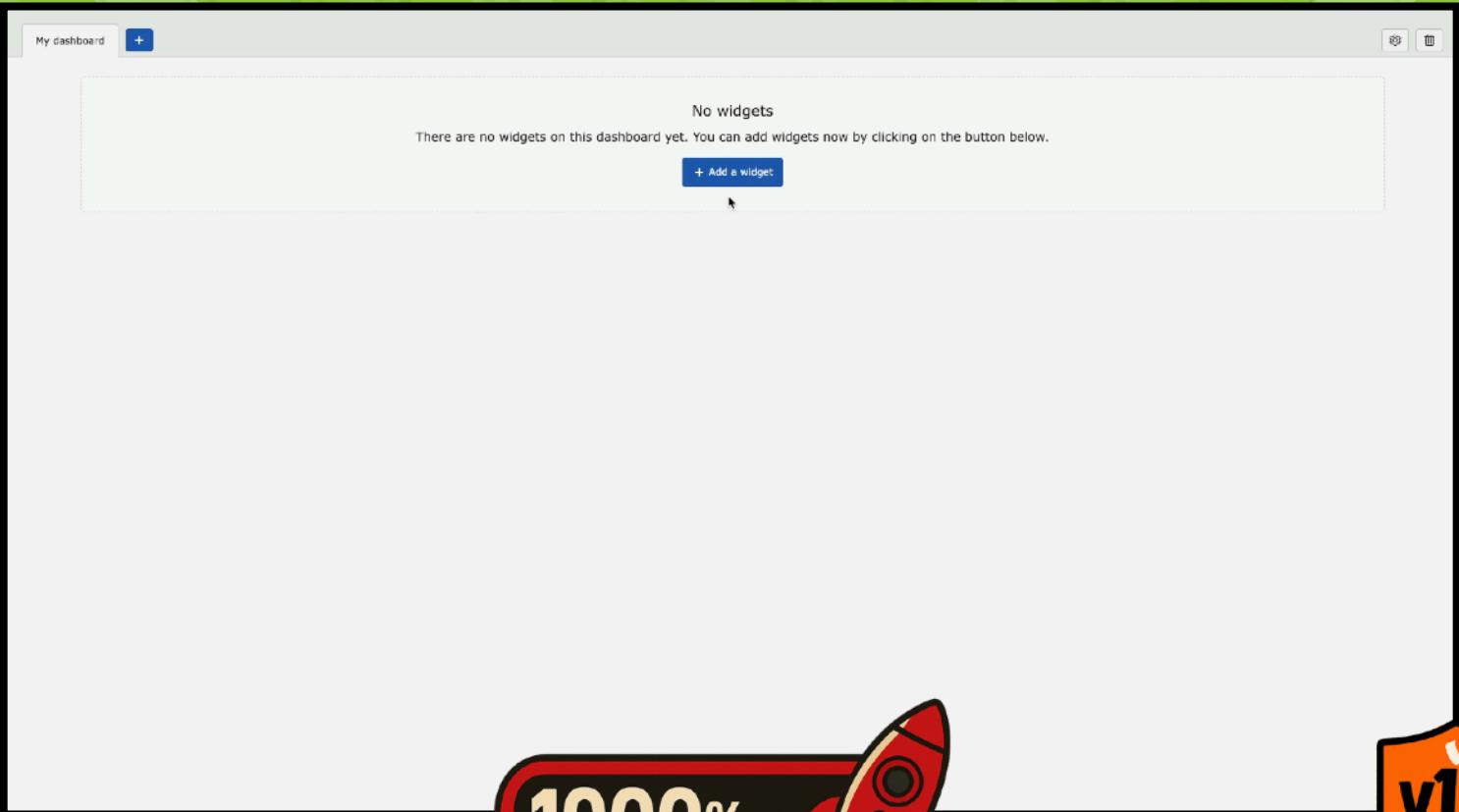
Normal

+ Create new content



A screenshot of a user interface builder. On the left, a sidebar shows a tree structure with 'Content' expanded, revealing 'Step (Step)' which contains 'Text (Text)'. The main area is titled 'Content' and shows a 'Step' panel with a single element named 'Text: text-1'. Below this is a dashed box labeled 'Create new element'. To the right, there's a detailed configuration panel for 'Text: text-1'. It includes fields for 'Label' (set to 'Text'), 'Description', 'Placeholder', 'Default value', 'Autocomplete' (set to 'None'), 'Field required' (with a checked radio button), and 'Validators' (set to 'Add validator'). A 'Remove this Element' button is also present. At the top of the configuration panel, there are tabs for 'Edit' and 'Preview'.





1000%



Dashboard v14



An IKEA Manual Without Pictures

I just wanted to add a simple field.
Now I need three files and a YAML override?!

It's Not a Bug, It's an Indentation Error

This TypoScript condition was working yesterday!





LESS CONFIG MORE MAGIC



Database

Automatic generation
of database fields



TSconfig

Auto-Inclusion
of TSconfig



Dependency Injection

Auto-Tagging of
services



Native PHP

Auto-Configuration of
various components

TYPO3 Reads Your Mind Now

... almost



Adding Content

Auto-Registration of
New Content Element Wizard



System Fields

Auto-Generation of
system columns configuration



Field Display

Auto-Generation of
showitem configuration



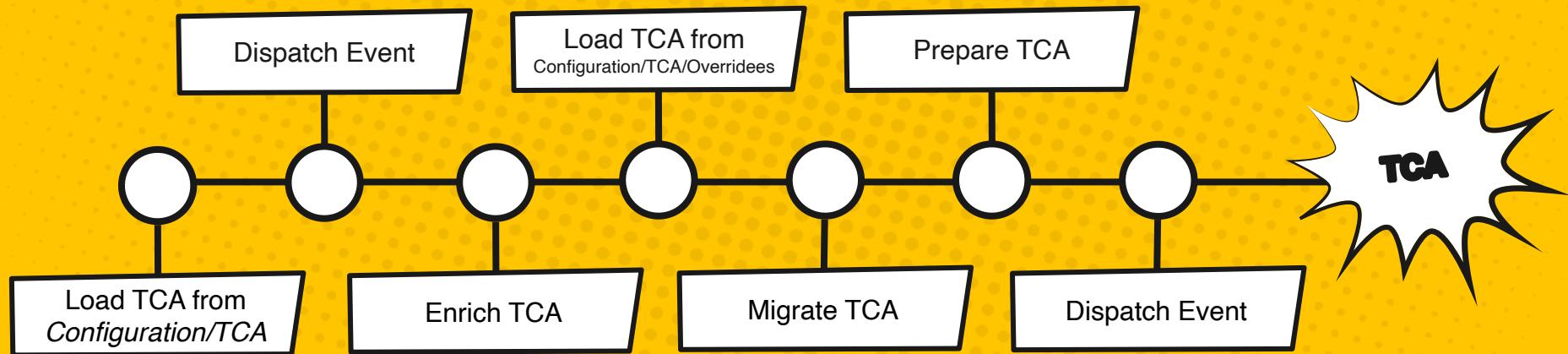
Field Preparation

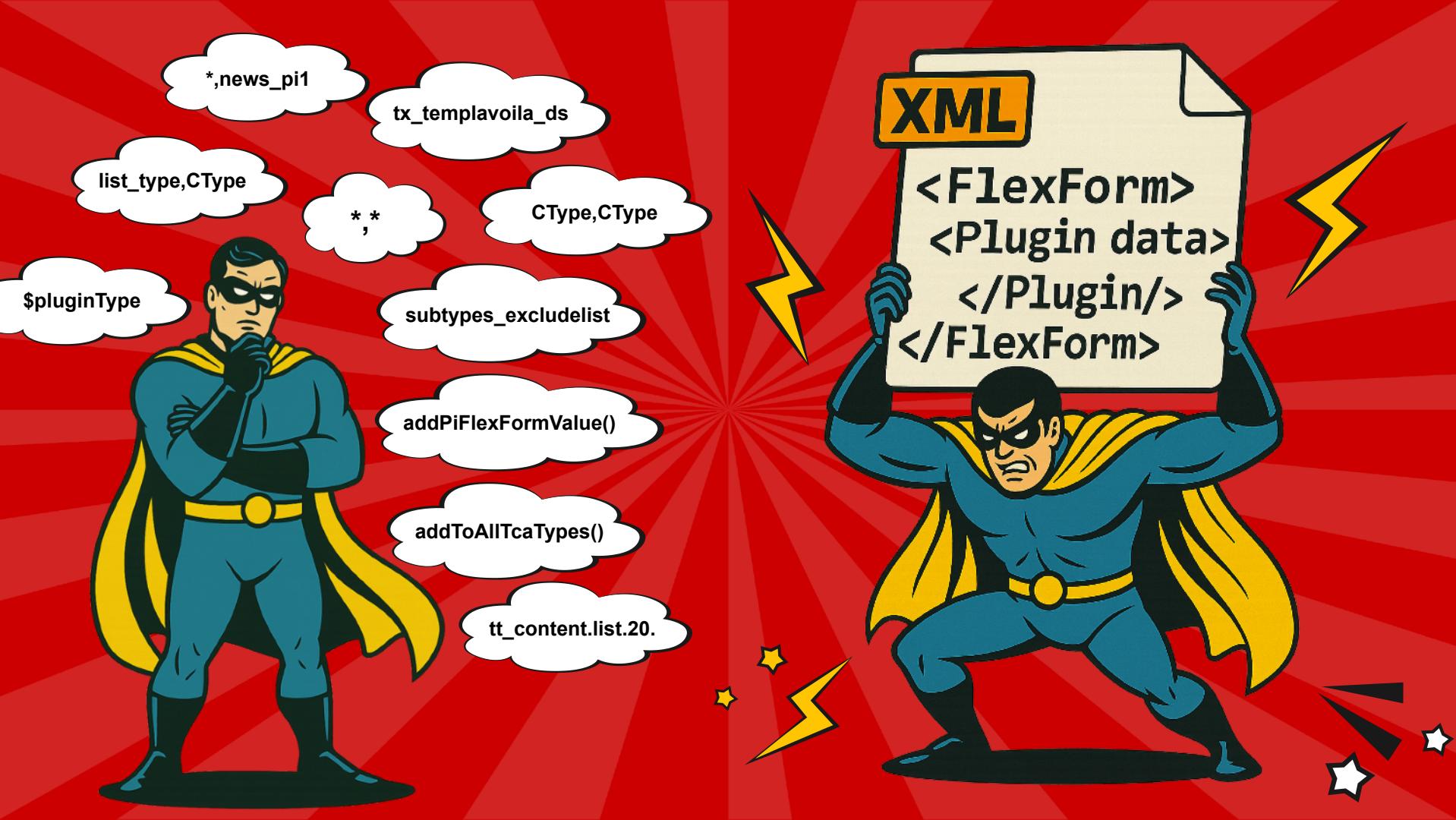
Auto-Configuration for
dedicated TCA Types

Every Hero Needs a Plan... And So Does TYPO3!



TCA GENERATION FLOW





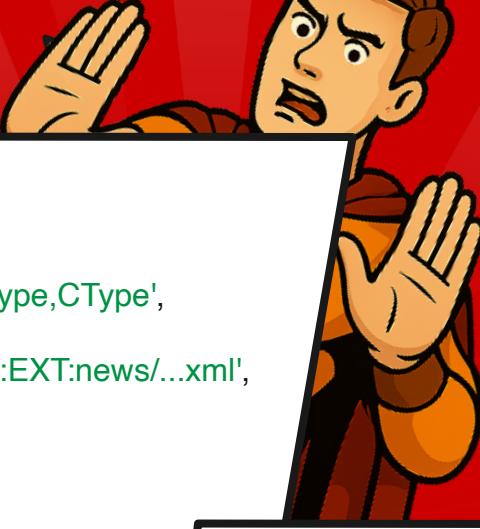


```
\TYPO3\CMS\Extbase\Utility\ExtensionUtility::registerPlugin(  
    'Superhero',  
    'Mission',  
    'A Superhero mission',  
    'tx-superhero-mission',  
    'plugins',  
    'Display superhero missions',  
    'FILE:EXT:superhero/Configuration/FlexForms/Mission.xml',  
);
```

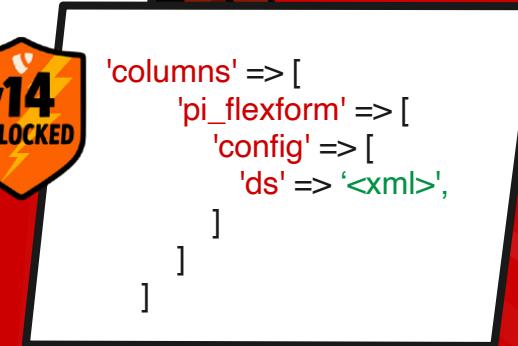


```
ExtensionUtility::configurePlugin(  
    'Superhero',  
    'Mission',  
    [  
        MissionController::class => ['list', 'show'],  
    ],  
    [  
        MissionController::class => ['list', 'show'],  
    ],  
);
```

```
'columns' => [
    'pi_flexform' => [
        'config' => [
            'ds_pointerField' => 'list_type,CType',
            'ds' => [
                'news_pi1,list' => 'FILE:EXT:news/...xml',
                'default' => '<xml>',
            ],
        ],
    ],
]
```



```
'columns' => [
    'pi_flexform' => [
        'config' => [
            'ds_pointerField' => 'list_type,CType',
            'ds' => [
                'news_pi1,list' => 'FILE:EXT:news/...xml',
                'default' => '<xml>',
            ],
        ],
    ],
]
```



```
'columns' => [
    'pi_flexform' => [
        'config' => [
            'ds' => '<xml>',
        ],
    ],
]
```



```
'columns' => [
    'pi_flexform' => [
        'config' => [
            'ds_pointerField' => 'list_type, CType',
            'ds' => [
                'news_pi1,list' => 'FILE:EXT:news/...xml',
                'default' => '<xml>',
            ],
        ],
    ],
],
]
```

```
v14  
UNLOCKED
```

```
'types' => [
    'news_pi1' => [
        'columnsOverrides' => [
            'pi_flexform' => [
                'config' => [
                    'ds' => 'FILE:EXT:news/...xml',
                ],
            ],
        ],
    ],
],
],
```



AROUND THE WORLD

New Country TCA Type

Powered by
Country API

FlexForm Support

Extbase Integration

Seamless Validation

Record Transformation

Fluid Power

Config options

- filter
 - onlyCountries / excludeCountries
- labelField
- sortItems
- prioritizedCountries



```
'country' => [
    'label' => 'Country',
    'config' => [
        'type' => 'country',
    ],
],
```



```
'country' => [
    'label' => 'Country',
    'config' => [
        'type' => 'country',
        'labelField' => 'localizedName',
        'prioritizedCountries' => ['AT', 'CH'],
        'sortItems' => [
            'label' => 'asc'
        ],
        'filter' => [
            'onlyCountries' => ['DE', 'AT', 'CH', 'FR', 'IT', 'HU'],
            'excludeCountries' => ['DE', 'FR'],
        ],
        'default' => 'HU',
        'required' => false,
    ],
],
```



```
class Superhero extends AbstractEntity
{
    protected ?Country $holidayArea = null;

    public function setHolidayArea(?Country $holidayArea): void
    {
        $this->holidayArea = $holidayArea;
    }

    public function getHolidayArea(): ?Country
    {
        return $this->holidayArea;
    }
}
```



```
{superhero.name}:  
  - <span title="{f:translate(key: superhero.holidayArea.localized nameLabel)}">  
    {superhero.holidayArea.alpha2IsoCode} {superhero.holidayArea.flag}  
  </span>
```



Country ISO2 [country_1]

Country Name [country_6]

Prioritized Countries [country_2]

Filtered Countries [country_3]

Country Select Box ISO3 [country_4]

- AND [AD]
- ARE [AE]
- AFG [AF]
- ATG [AG]
- AIA [AI]
- ALB [AL]
- ARM [AM]
- AGO [AO]
- ATA [AQ]

Readonly Country [country_5]

	Germany [DE]
--	--------------





PAGEVIEW OBJECT

```
page = PAGE
page {
  10 = FLUIDTEMPLATE
  10 {
    templateName = TEXT
    templateName {
      stdWrap {
        cObject = TEXT
        cObject {
          data = levelfield:-2, backend_layout_next_level, slide
          override {
            field = backend_layout
          }
          split {
            token = pagets__
            1 {
              current = 1
              wrap = l
            }
          }
        }
        ifEmpty = Standard
      }
    }
    templateRootPaths {
      100 = {$templates}
    }
    partialRootPaths {
      100 = {$partials}
    }
    layoutRootPaths {
      100 = {$layouts}
    }
  }
}
```

VS

```
page = PAGE
page {
  10 = PAGEVIEW
  10 {
    paths.100 = {$templates}
  }
}
```

RECORD TRANSFORMATION

```
page = PAGE
page {
  10 = PAGEVIEW
  10 {
    paths.100 = {$templates}
    dataProcessing {
      10 = database-query
      10 {
        as = myContent
        table = tt_content
        select.where = colPos=0
        dataProcessing.10 = record-transformation
      }
    }
  }
}
```

Resolves database values

Creates Record objects

Transformation based on TCA

Resolves relations

Lazy

PAGE CONTENT DATA PROCESSOR

```
page = PAGE
page {
  10 = PAGEVIEW
  10 {
    paths.100 = {$templates}
    dataProcessing {
      10 = database-query
      10 {
        as = myContent
        table = tt_content
        select.where = colPos=0
        dataProcessing.10 =
          record-transformation
      }
    }
  }
}
```

VS

```
page = PAGE
page {
  10 = PAGEVIEW
  10 {
    paths.100 = {$templates}
    dataProcessing.10 = page-content
    dataProcessing.10.as = myContent
  }
}
```

PAGE LAYOUT IMPROVEMENTS

the only config you'll want more of...

identifier

- ★ Unique identifier of a content column
- ★ Name in the fluid template



slideMode

- ★ Defines how content should be fetched
- ★ Options:
 - ↗ slide
 - ↖ collect
 - ↖ collectReverse

identifier

- ★ Unique identifier of a content column
- ★ Name in the fluid template



slideMode

- ★ Defines how content should be fetched
- ★ Options:
 - slide
 - collect
 - collectReverse

```
mod.web_layout.BackendLayouts.default.config.backend_layout.rows.1 {  
    columns {  
        name = Main Content Area  
        colPos = 0  
        identifier = main  
        slideMode = collectReverse  
    }  
}
```

identifier

- ★ Unique identifier of a content column
- ★ Name in the fluid template



```
<main>
  <f:for each="{myContent.main.records}" as="record">
    <h4>{record.header}</h4>
    <p>{record.bodytext -> f:format.html()}</p>
  </f:for>
</main>
```

slideMode

- ★ Defines how content should be fetched
- ★ Options:
 - slide
 - collect
 - collectReverse

identifier

- ★ Unique identifier of a content column
- ★ Name in the fluid template



slideMode

- ★ Defines how content should be fetched
- ★ Options:
 - ⚡ slide
 - ⚡ collect
 - ⚡ collectReverse

```
<f:for each="{myContent.main.records}" as="record">  
  <f:for each="{record.media}" as="media">  
    <f:media file="{media}" />  
  </f:for>  
</f:for>
```

identifier

- ★ Unique identifier of a content column
- ★ Name in the fluid template



slideMode

- ★ Defines how content should be fetched
- ★ Options:
 - ⚡ slide
 - ⚡ collect
 - ⚡ collectReverse

```
mod.web_layout.tt_content.preview {  
    text = EXT:site/Resources/Private/Preview/Text.html  
}
```



**BRINING IT
ALL TOGETHER**

Settings API

Site (Set)tings

Centralized control of the site's appearance

TSconfig

Shaping the backend experience like a true hero in disguise

Content Blocks

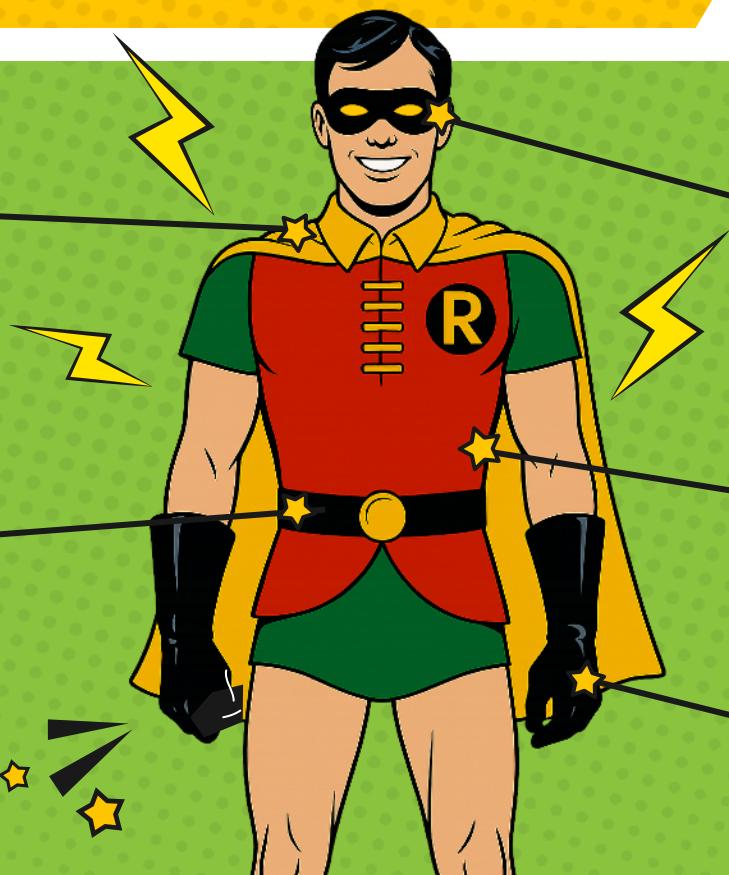
Modular, reusable and flexible content elements

TYPOSRIPT

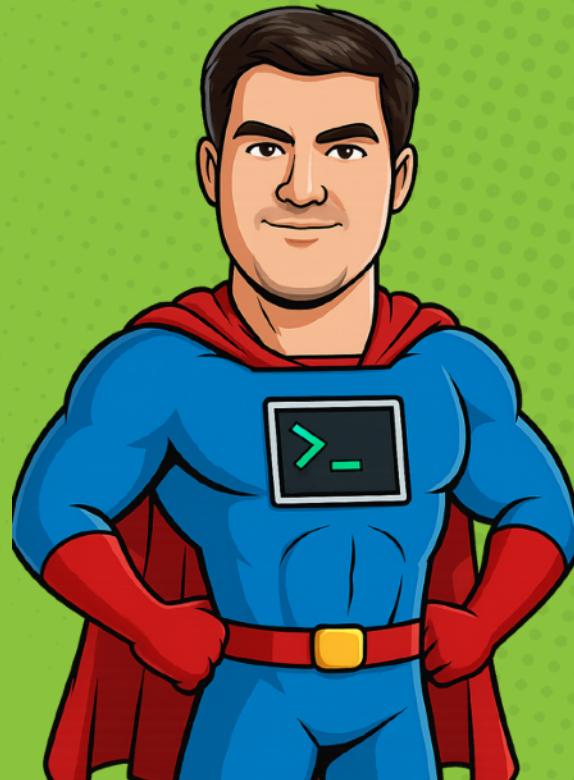
Fueling all rendering magic, superpowers TYPO3

Dashboard

The personalized mission control



Settings API



**Settings in TYPO3 –
Rolling Out a New Reliable
Configuration System**

You are now an official TYPO3 Backend Ninja!

Self-Building Database

'cause heroes don't waste time on SQL!

Set It & Forget It!

less setup, more action!

TCA on Autopilot

let TYPO3 handle it—because real heroes don't do repetitive work!

Records on Demand

Database values transform into objects, with all those lazy relations!

Supercharged Layouts

Expanded options makes structuring pages faster and more flexible!

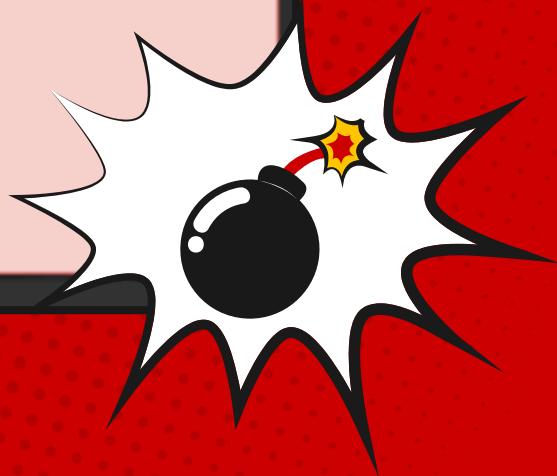
Easier Templating

Cleaner, more powerful ways to connect data with your templates.



 Oooooops, an error occurred!

Hook registration failed.
Try sacrificing a coffee to the config gods.





PSR-14 Events
Modify the Core Without Breaking it!

Upgrade safe

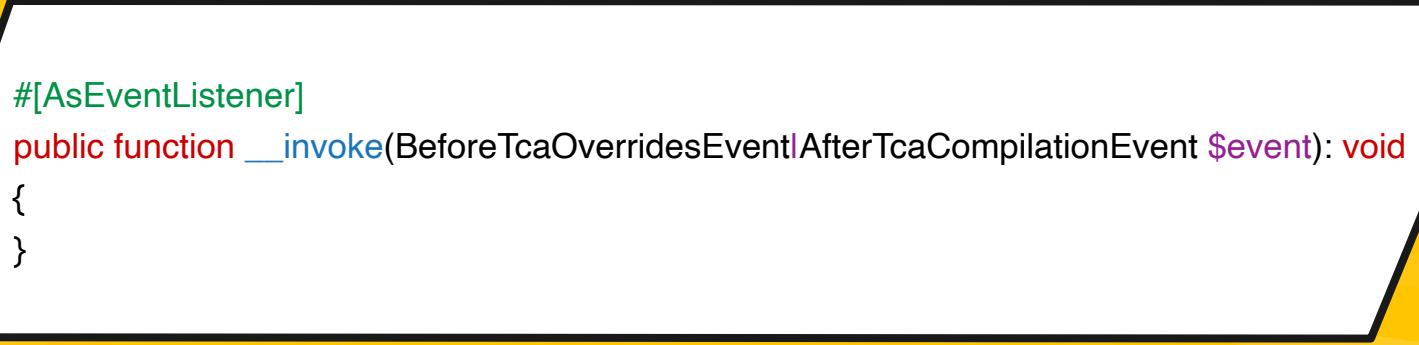
Fully extendable

Effortless registration

Unified structure

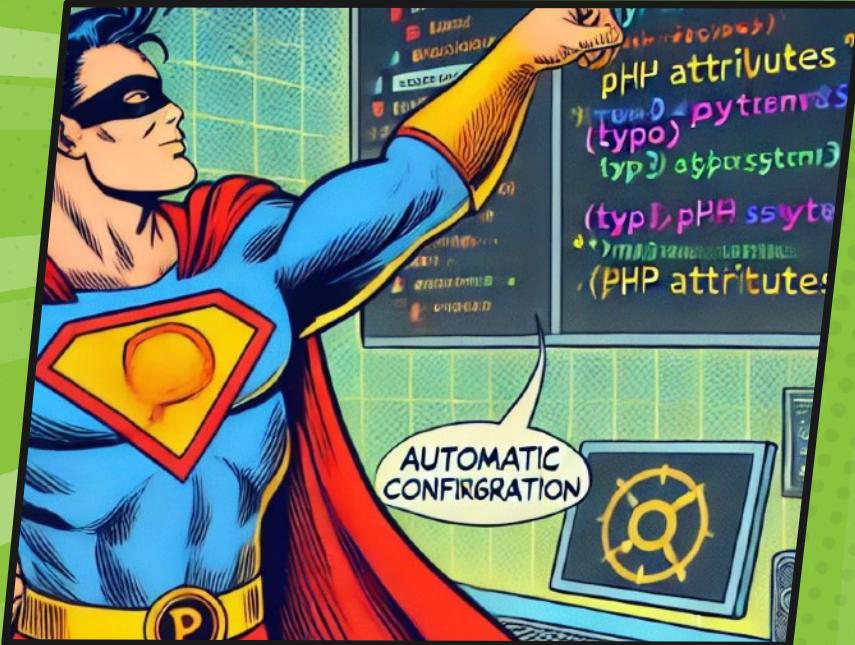
Limitless Customization

Object oriented



```
#[AsEventListener]
public function __invoke(BeforeTcaOverridesEvent|AfterTcaCompilationEvent $event): void
{
}
```

Configuration? Done. PHP Attributes to the Rescue!



#**[AsCommand]**
#**[AsController]**
#**[AsEventListener]**
#**[AsMessageHandler]**
#**[UpgradeWizard]**
#**[WebhookMessage]**

...



We've Built the
Foundation...

Now Let's Give It
Superpowers!

TCA SCHEMA

Access TCA Like a True Hero
Fields, Capabilities & Relations at Your Fingertips!

BOOM!!!!



`$schema->getName()`

`$schema->supportsSubSchema()`

`$schema->getSubSchemaTypeInformation()`

`$schema->getFields()`

`$schema->getSubschema()`

`$schema->getFields(static fn($field)=> $field->isRequired())`

`$schema->getFieldsOfType(TableColumnType::Input)`

`$schema->getActiveRelations()`

`$schema->getPassiveRelations()`

Capabilities

The Next-Level TCA Control!

Unlock extra functionality with built-in intelligence!

```
$schema→hasCapability(TcaSchemaCapability::Workspace)
```

```
$schema→getCapability(TcaSchemaCapability::UpdatedAt)→getFieldName()
```

```
$schema→getCapability(TcaSchemaCapability::Label)→getAllLabelFieldNames()
```

```
$schema→getCapability(TcaSchemaCapability::Language)→getLanguageField()
```

Field Types

TCA, But Smarter!

Access TCA Fields configuration with Precision and Power!

```
$schema→getField('header')→isRequired()
```

```
$schema→getField('header')→getDefaultValue()
```

```
$schema→getField('media')→getRelationshipType()
```

```
$schema→getField('media')→getRelations()
```

```
$schema→getField('pi_flexform')→getDataStructure()
```

```
$schema→getField('header')→isSearchable()
```

Field Types

TCA, But Smarter!

Access TCA Fields configuration with Precision and Power!

```
$schema→getField('header')→isRequired()
```

```
$schema→getField('header')→getDefaultValue()
```

```
$schema→getField('media')→getRelationshipType()
```

```
$schema→getField('media')→getRelations()
```

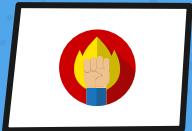
```
$schema→getField('pi_flexform')→getDataStructure()
```

```
'mysterious' => [
    'label' => 'Mysterious',
    'config' => [
        'type' => 'input',
        'searchable' => false,
    ],
],
```



RECORD OBJECT

From Raw Data to Structured Power



Super Strength –
Object-Oriented Access



Super Intelligence –
System Insights Built-In



X-Ray Vision –
Lazy-Loaded Relations



Shape-Shifting –
Raw Data on Demand



```
$record→getUid()  
$record→getRecordType()  
$record→get('media')  
$record→getRawRecord()  
$record→getSystemProperties()→getLanguage()  
$record→getComputedProperties()→getTranslationSource()
```



```
{record.uid}  
{record.recordType}  
{record.media}  
{record.rawRecord}  
{record.systemProperties.language}  
{record.computedProperties.translationSource}
```



Schema API and Record API in TYPO3 v13





File Storage? Just Put It... Somewhere?

Wait... Did That Just Upload as evil.exe?

Validation? Do it Yourself!

Oh No, We Forgot to Clean Up... Again!

Extbase Built-In Upload and Deletion Handling

Your Files Now Have Plot Armor!



Security by Default



Automatic Cleanup



Seamless FAL Integration



Extbase Built-In Upload and Deletion Handling

Your Files Now Have Plot Armor!



**Beyond the Form: File
Uploads the Extbase Way**



You are now an official TYPO3 Code Warrior!

PSR-14 Events

Modify the Core Like a Pro!
Hooks are history.

PHP Attributes

Less boilerplate,
more magic!

TCA Schema

X-Ray Vision for Your
Configuration!

Record Object

Smarter Data, Less Hassle!

Extbase File Handling

No More DIY Upload
Nightmares!

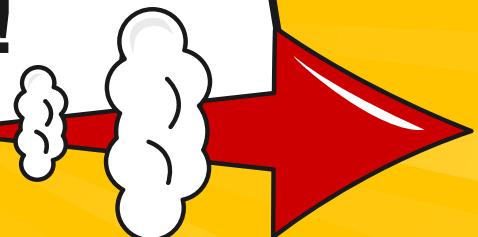
New APIs

Explore fresh APIs that
simplify development



**Less Code
More Action**

**TYPO3 is evolving –
help shape the future!**





An Introduction to DataHandler internals

TYPO3 and IoT





WITH GREAT POWER COMES GREAT RESPONSIBILITY



@oli



@_obartsch



@obartsch



@o-ba

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