



# TYPO3

TUGA 97 @ Limesoda (Linz)

# Danke



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# Tipps & Tricks

# cObj PageView && PageContentFetchingProcessor

```
page = PAGE
page {
    10 = PAGEVIEW
    10.paths.100 = EXT:demo_sets/Resources/Private/Page/
    10.dataProcessing {
        5 = page-content
        10 = menu
        10 {
            as = mainNavigation
        }
    }
}
```

# PageContentFetchingProcessor

**Fehler:** strlen(): Argument #1 (\$string) must be of type string, TYPO3\CMS\Core\Domain\RecordPropertyClosure given

```
- <f:cObject typoscriptObjectPath="tt_content"  
data="{record}" table="tt_content" />  
+ <f:cObject typoscriptObjectPath="{record.mainType}"  
table="{record.mainType}" data="{record.rawRecord}" />
```

# PageContentFetchingProcessor

**Fehler:** Object of class

TYPO3\CMS\Core\Collection\LazyRecordCollection could not be converted to int

```
<settings.detailPid>
  <config>
    <type>group</type>
    <allowed>pages</allowed>
    <relationship>manyToOne</relationship>
    <size>1</size>
    <maxitems>1</maxitems>
  </config>
</settings.detailPid>
```

# Schema API

- Ablöse von direktem Zugriff auf `$GLOBALS [ 'TCA' ]`
- Objektorientierte API
- Sub-Schema Informationen (`columnsOverride`, `Types`, ...)
- `RelationShips`

# Änderung in eigenen Extensions

## Vorher

```
if (isset($arguments['sortingField']) &&
isset($GLOBALS['TCA'][$self::TABLE]['columns'][$arguments['sortingField']]))
{
```

## V13

```
$schema = $this->tcaSchemaFactory->get(self::TABLE);

if ($schema->hasField($arguments['sortingField'] ?? '')) {
```



# Rector

```
composer require --dev ssch/typo3-rector
```

# Rector in TYPO3 v13

## Variante 1

- Installation in einem Unterordner
- Aufruf via composer script

## Variante 2

- Installation als require-dev
- Konflikt mit “nikic/php-parser” v4/v5
- Installation nur möglich ohne  
“typo3/cms-install” bzw.  
“yoast-seo-for-typo3/yoast\_seo”, ...

# Rector verbessern I

## Ausgangslage

```
public function createStep3Action(Step3 $step3) {  
  
    $this->redirect('index');  
  
}
```

## Migration

```
public function createStep3Action(Step3 $step3): void {  
  
    $this->redirect('index');  
  
}
```

und nun

```
public function createStep3Action(Step3 $step3):  
ResponseInterface {  
  
    return $this->redirect('index');  
  
}
```

# Rector verbessern II

## Ausgangslage

```
$post = GeneralUtility::_POST('xxx');
```

## Migration

```
$post = $this->request->getParsedBody()['xxx'];
```

und nun

```
$post = $this->request->getParsedBody()['xxx'] ?? null;
```

# Einfache Verbesserungen für Backend Modules

# Ajax-Suggest in EXT:news\_administration

News Listing



Show/Hide filter



## News administration

### Search

news



**News** with HTML in body [5]

**news** with a very very long title which is not ending somewhere because it is just too long - you know. so long!  
[121]

a **news** #1 [2]

**Time range**

**Hidden**

Cat 1a

Cat 1b

# Configuration/JavaScriptModules.php

```
return [  
    'dependencies' => [  
        'backend',  
        'core',  
    ],  
    'imports' => [  
        '@newsadministration/module/' => 'EXT:key/Resources/Public/JavaScript/',  
        'typeahead' => 'EXT:key/Resources/Public/typeahead.js',  
    ],  
];
```



```

const inputElement : HTMLInputElement = document.getElementById( elementId: "searchWord");
const instance = typeahead({
  input: inputElement,
  templates: {
    notFound: (resultSet) :string => '<b>Nothing Found</b>',
    suggestion: (item, resultSet) :string => {
      return `<div class="suggestion-label">${item.title} [${item.id}]</div>`;
    },
  },
  source: {
    remote: {
      url: TYPO3.settings.ajaxUrls.newsadministration_suggest + '&q=%QUERY&pids=' + inputElement.getAttribute( qualifiedName: 'data-pageids'),
      wildcard: '%QUERY',
      debounce: 300, // optional, default => 200ms
      requestOptions: {} // optional, default => undefined
    },
    keys: ["title"],
    transform: (data) => { // optional
      return data.map(item => ({
        id: item.uid,
        title: item.title
      }));
    },
  }
});

```

# Configuration/Backend/AjaxRoutes.php

```
use GeorgRinger\NewsAdministration\Controller\AjaxController;

return [
    'newsadministration_suggest' => [
        'path' => '/news-administration/suggest',
        'target' => AjaxController::class . '::suggestAction',
    ],
];
```

```
final class AjaxController 2 usages
```

```
{
```

```
public function suggestAction(ServerRequestInterface $request): ResponseInterface no usages
```

```
{
```

```
    $searchWord = $request->getQueryParams()['q']
```

```
    ?? throw new \InvalidArgumentException(
```

```
        message: 'Please provide an input',
```

```
        code: 1730103949,
```

```
    );
```

```
    $pidList = $request->getQueryParams()['pids']
```

```
    ?? throw new \InvalidArgumentException(
```

```
        message: 'Please provide an input',
```

```
        code: 1730103950,
```

```
    );
```

```
    $pids = $this->hashService->validateAndStripHmac($pidList, additionalSecret: 'newsadministration');
```

```
    $result = $this->getSearchHits($searchWord, $pids);
```

```
    return new JsonResponse($result);
```

```
}
```

# Features v13 in production

# StatusInformation Event

EXT:news Feature-Branch

```
#[AsEventListener( no usages
    identifier: 'ext-news/backend/modify-page-tree-items',
)]
final readonly class ModifyPageTreeItems
{

    public function __invoke(AfterPageTreeItemsPreparedEvent $event): void
    {
        $items = $event->getItems();
        foreach ($items as &$item) {
            if ($item['_page']['uid'] === 123) {
                $item['statusInformation'][] = new StatusInformation(
                    label: 'A label',
                    severity: ContextualFeedbackSeverity::INFO,
                    priority: 0,
                    icon: 'icon',
                    overlayIcon: '',
                );
            }
        }

        $event->setItems($items);
    }
}
```

# QueryBuilder if/then/else

```
public function __invoke(ModifyDatabaseQueryForRecordListingEvent $event)
{
    if ($event->getTable() !== 'tx_news_domain_model_news') {
        return;
    }

    $queryBuilder = $event->getQueryBuilder();
    $queryBuilder->addSelectLiteral(
        $queryBuilder->expr()->if(
            $queryBuilder->expr()->eq( fieldName: 'istopnews', value: 1),
            $queryBuilder->quote( input: 'news-istopnews'),
            $queryBuilder->quote( input: ''),
            as: '_CSSCLASS'
        ),
    );

    $event->setQueryBuilder($queryBuilder);
}
```

a lot

Create a new translation of this page ▾

News (110) >

☐ ▾ Header ↑

☐ 📄 n 10



☐ 📄 n 10 (copy 1)



☐ 📄 n 10 (copy 2)



☐ 📄 n 10 (copy 3)



☐ 📄 n 10 (copy 4)



# Misc












# Suggest in Flexforms

```
<!-- PID Detail Page -->
<settings.detailPid>
  <label>LLL:EXT:news/Resources/Private/Language/locallang_be.xlf:flexforms_additional.dete
  <config>
    <type>group</type>
    <allowed>pages</allowed>
    <relationship>manyToOne</relationship>
    <size>1</size>
    <maxitems>1</maxitems>
    <minitems>0</minitems>
    <suggestOptions>
      <default>
        <addWhere>AND pages.doktype NOT in (6,199,254)</addWhere>
      </default>
    </suggestOptions>
  </config>
</settings.detailPid>
```



# *V13 bei SMDM*

# Setup mit Site Sets

- ▼  theme
  - >  Classes
  - ▼  Configuration
    - >  PageTsConfig
    - >  RTE
    - ▼  Sets
      - ▼  ThemeMain
        -  config.yaml
        -  constants.typoscript
        -  page.tsconfig
        -  setup.typoscript

# Setup mit Site Sets

**name:** `smdm/bgundp`

**label:** BGP Theme

**dependencies:**

- `typo3/fluid-styled-content`
- `typo3/form`
- `typo3/felogin`
- `typo3/seo-sitemap`
- `geogringer/news`
- `geogringer/news-twb4`

### Setup

**Configuration**

- v [site:main] Karriereportal BG&P
 [+]
  - Site configuration
Root
Clear
  - > Default content rendering
 [ ]
[+]
    - Included via "\$GLOBALS"
  - > Default content rendering
 [ ]
[+]
    - Included via "\$GLOBALS"
- v site:main:sets
 [+]
  - TypoScript set (included via file)
  - > set:geogringer/news:setup.typoscript
 [ ]
[+]
    - Part of a TypoScript set
  - > set:geogringer/news-twb4:setup.typoscript
 [ ]
[+]
    - Part of a TypoScript set
  - > set:typo3/felogin:setup.typoscript
 [ ]
[+]
    - Part of a TypoScript set
  - > set:typo3/fluid-styled-content:setup.typoscript
 [ ]
[+]
    - Part of a TypoScript set
  - > set:typo3/form:setup.typoscript
 [ ]
[+]
    - Part of a TypoScript set
  - > set:typo3/seo-sitemap:setup.typoscript
 [ ]
[+]
    - Part of a TypoScript set
  - > set:smdm/bgundp:setup.typoscript
 [ ]
[+]
    - Part of a TypoScript set

# TypoScript

```
page = PAGE
page {

    headerData {
        2039 = FLUIDTEMPLATE
        2039 {
            file = EXT:theme/Resources/Private/Page/Templates/Favicons.html
        }
    }

    meta {
        viewport = width=device-width, initial-scale=1
    }

    10 = PAGEVIEW
    10 {
        paths.100 = EXT:theme/Resources/Private/Page/

        variables {

        }

        dataProcessing {
            5 = page-content|
```

- ▼ theme
  - > Classes
  - > Configuration
  - > ContentBlocks
  - ▼ Resources
    - ▼ Private
      - > Components
      - > Content
      - ▼ Extensions
        - > Form
        - > News
      - ▼ Page
        - > Layouts
        - ▼ Pages
          - <> Default.html
          - <> No\_header.html
        - > Partials
        - > Templates
    - > Public

# Templating mit auto-mapping

```

mod.web_layout.BackendLayouts {
  default {
    title = Default
    config {
      backend_layout {
        colCount = 1
        rowCount = 2
        rows {
          1 {
            columns {
              1 {
                name = Header
                identifier = header
                colPos = 3
                allowed {
                  CType = studiomitte_keyvisual
                }
                maxitems = 1
              }
            }
          }
          2 {
            columns {
              1 {
                name = Main
                identifier = main
              }
            }
          }
        }
      }
    }
  }
}

```

```

<f:section name="content">
  <f:if condition="{content.header}">
    <f:if condition="{content.header.records}">
      <f:then>
        <f:for
          each="{content.header.records}"
          as="record">
          <f:cObject
            typoscriptObjectPath="{record.mainType}"
            table="{record.mainType}"
            data="{record.rawRecord}" />
        </f:for>
      </f:then>
    </f:if>
  <f:else>
    <f:if condition="{page.pageRecord.title}">
      <my:atom.headline title="{page.pageRecord.title}" />
    </f:if>
  </f:else>
</f:if>
</f:if>

```

# ContentBlocks statt Mask

## Vorteile

- Core-nahe
- Einzelne Ordner pro Element
  - Shareable
  - Keine Konflikte

## Nachteile

- Noch keine UI
  - Nicht konsistent mit anderen Inhaltselementen des Cores
-

```
name: studiomitte/key-visual
typeName: studiomitte_keyvisual
group: default
prefixFields: true
prefixType: full
fields:
-
  identifier: header
  useExistingField: true
-
  identifier: subheader
  useExistingField: true
-
  identifier: bodytext
  useExistingField: true
  enableRichtext: true
-
  identifier: image
  useExistingField: true
  minitems: 0
  maxitems: 1
  allowed: common-image-types
```

```
name: studiomitte/cta
typeName: studiomitte_cta
group: default
prefixFields: true
prefixType: full
fields:
-
  identifier: link_text
  label: Button Text
  type: Text
-
  identifier: link
  label: Button Link
  type: Link
```

# Danke



# Georg Ringer

- Core Developer
- Extension Developer

working @  
Studio Mitte  
& Freelancer



georg\_ringer



geogringer