# TYP03 CMS 7.4 - What's New

Summary of the new features, changes and improvements

Created by:
Patrick Lobacher and Michael Schams



#### TYPO3 CMS 7.4 - What's New

#### **Chapter Overview**

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# Introduction The Facts



#### TYP03 CMS 7.4 - The Facts

- Release date: 04. August 2015
- Release type: "Sprint Release"
- Vision: Embrace, Innovate, Deliver
- Primary focus: Backend Overhaul Vol 2



#### System Requirements

■ PHP\*: v5.5.0 - v5.6.x

■ MySQL: v5.5.x - v5.6.x (no strict mode)

■ Disk space: min 200 MB

■ PHP settings:

memory\_limit >= 128M

max\_execution\_time >= 240s

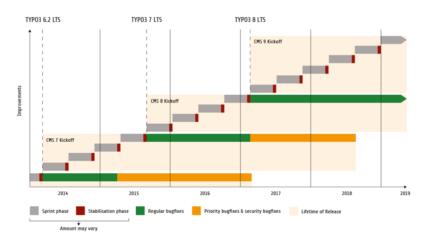
■ compilation option -disable-ipv6 must <u>not</u> be used

Backend requires IE >= 9 or any other modern browser

\*) Further details: PHP Minimum Requirements for TYP03 CMS 7



#### **Development And Release Timeline**





#### **TYP03 CMS Roadmap**

Estimated release dates and their primary focus:

```
    v7.0 02/Dec/2014 Backend Overhaul Vol 1
    v7.1 24/Feb/2015 Core Cleanup & Streamlining
    v7.2 28/Apr/2015 Frontend
    v7.3 16/Jun/2015 Package Ecosystem, Composer
    v7.4 04/Aug/2015 Backend Overhaul Vol 2
    v7.5 29/Sep/2015 (to be determined...)
    v7.6 xx/xxx/2015 TYPO3 CMS 7 LTS (Long Term Release)
```

```
https://typo3.org/typo3-cms/roadmap/
http://typo3.org/news/article/embrace-and-innovate-typo3-cms-7/
```



#### **Installation**

 Official installation procedure under Linux/Mac OS X (DocumentRoot for example /var/www/site/htdocs):

```
$ cd /var/www/site
$ wget --content-disposition get.typo3.org/7.4
$ tar xzf typo3_src-7.4.0.tar.gz
$ cd htdocs
$ ln -s ../typo3_src-7.4.0 typo3_src
$ ln -s typo3_src/index.php
$ ln -s typo3_src/typo3
$ touch FIRST_INSTALL
```

- Symbolic links under Microsoft Windows:
  - Use junction under Windows XP/2000
  - Use mlink under Windows Vista and Windows 7



#### Upgrade to TYP03 CMS 7.x

- Upgrades only possible from TYPO3 CMS 6.2 LTS
- TYPO3 CMS < 6.2 should be updated to TYPO3 CMS 6.2 LTS first
- Upgrade instructions:

```
http://wiki.typo3.org/Upgrade#Upgrading_to_7.4
```

Official TYP03 guide "TYP03 Installation and Upgrading":

```
http://docs.typo3.org/typo3cms/InstallationGuide
```

- General approach:
  - Check minimum system requirements (PHP, MySQL, etc.)
  - Review deprecation\_\*.log in old TYP03 instance
  - Update all extensions to the latest version
  - Deploy new sources and run Install Tool -> Upgrade Wizard
  - Review startup module for backend users (optionally)



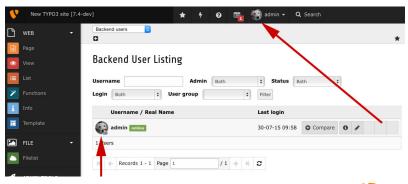
# Chapter 1:

# **Backend User Interface**



#### **Avatars for Backend Users**

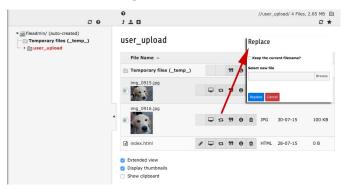
To improve the user experience in collaborative content editing, backend users can use avatars now. These small user images are shown in the topbar, users list and other places.





#### Replace Files

Files in the FAL record list can now be **replaced** (requires enabled "extended view"). Filename of the existing file can be retained or updated.

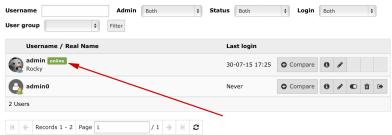




#### **Online Status of Backend Users**

The online status of backend users is shown in module "Backend Users".

# Backend User Listing





#### **Secondary Options Removed**

The checkbox "Show secondary options (palettes)", the page TSconfig option options.enableShowPalettes and the TCA setting have been removed. The palettes are always visible and can not be hidden anymore.

| Default   Date  Link  Subheader |                 | Alignment  |
|---------------------------------|-----------------|------------|
| Link                            |                 | Default \$ |
| Link                            |                 | Date       |
|                                 |                 |            |
|                                 |                 | Link       |
| Subheader                       | 9               |            |
|                                 |                 | Subheader  |
|                                 |                 |            |
|                                 |                 |            |
| Page Content                    | Page Content [1 | VVVV       |



#### **Description for Backend Users**

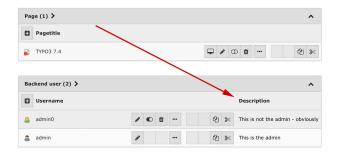
A new field "Description" has been added to backend user records.

| C ® S S S S                                      | * ×          |
|--|--------------|
| Edit Backend user "admin" on root level          |              |
|  |              |
| General Options Access                           |              |
| Disable:   |              |
|  |              |
| Username:  |              |
| admin x  |              |
|  |              |
| Password:  |              |
| **************************************           |              |
| Avatar   |              |
| Allowed file extensions:                         |              |
| GIF JPG JPEG TIF TIFF BMP PCX TOA PNG PDF AT SVG |              |
| Filename img_091/5pg                             | <b>±</b> € ≡ |
|  |              |
| Description:                                     |              |
| This is the best dog in the world! sic!          |              |
|  |              |
|  |              |



#### **Description for Table Columns**

By configuring a column (usually description) in TCA setting ['TCA'] ['ctrl'] ['descriptionColumn'], a description can be shown (improves usability for editors and administrators).





#### **Description for Filemounts**

A new field "Description" has been added to filemount records. The field allows administrators to add a short description what a certain filemount should be used for, which documents it may contain, etc.

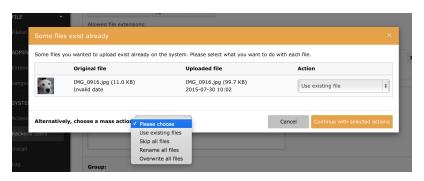
#### Create new Filemount on root level

| Label:   |  |
|--|--|
| Editors (PDF)  |  |
| Disable:   |  |
|  |  |
| Description:   |  |
| This is the filemount for editors and provides access for PDF files only |  |
|  |  |
|  |  |
| Remaining characters: 1928   |  |



#### Dialog for Existing Files on Upload

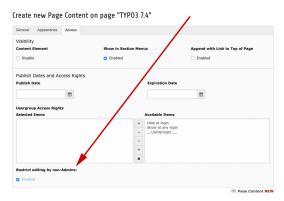
If a file upload would overwrite an existing file, a dialog is shown, asking the user to choose an action (e.g. replace, rename or skip).





#### **Editing Content Elements Restriction**

Content elements can now be restricted to be editable by admins only (similar to function "Restrict editing by non-Admins" for pages).





#### **Include Static TSconfig Files (1)**

In page properties an option allows to include a page TSconfig file (the same way as TypoScript static templates are included).

| General      | Access      | Metadata     | Appearance     | Behaviour | Resou | rces   | Categories |
|--------------|-------------|--------------|----------------|-----------|-------|--------|------------|
| Files        |             |              |                |           |       |        |            |
| Media        |             |              |                |           |       |        |            |
| ☐ Create n   | new relatio | n Selec      | & upload files |           |       |        |            |
| TypoScript   | -           |              |                |           |       |        |            |
| Include Pag  |             | fig (from ex | tensions):     |           |       |        |            |
| Selected Ite | ems         |              |                |           |       | Availa | able Items |
|              |             |              |                |           | *     | T      |            |
|              |             |              |                |           | ^     |        |            |
|              |             |              |                |           | ~     |        |            |
|              |             |              |                |           | *     |        |            |
|              |             |              |                |           | ×     |        |            |
|              |             |              |                |           |       |        |            |
|              |             |              |                |           |       |        |            |



#### Include Static TSconfig Files (2)

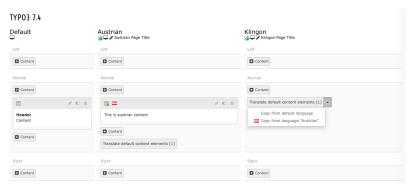
#### The following method registers a page TSconfig file:

```
\TYPO3\CMS\Core\Utility\ExtensionManagementUtility::registerPageTSConfigFile(
  'extension_name',
  'Configuration/PageTS/myPageTSconfigFile.txt',
  'My special configuration'
);
```



#### **Real Copies of Content Elements**

A new button has been added to each column in the "Page" module which allows real copies of content element into a language (not only references).





# Chapter 2: TSconfig & TypoScript



#### Data-Provider for Backend Layouts (1)

It is now possible to define backend layouts via page TSconfig and also store them in files. For example:

```
mod {
  web_layout {
    BackendLavouts {
      exampleKey {
        title = Example
        config {
          backend_layout {
            colCount = 1
            rowCount = 2
            rows {
              1 {
                columns {
                  1 {
                     name = LLL:EXT:frontend/ ... /locallang ttc.xlf:colPos.I.3
                    colPos = 3
                    colspan = 1
                  }
ſ...1
```



#### Data-Provider for Backend Layouts (2)

#### ■ (continued)



#### **Meta Tags Extended**

Option page.meta supports Open Graph attribute names now

```
page {
  meta {
    X-UA-Compatible = IE=edge.chrome=1
    X-UA-Compatible.attribute = http-equiv
    keywords = TYP03
    # <meta property="og:site_name" content="TYPO3" />
    og:site name = TYP03
    og:site_name.attribute = property
    description = Inspiring people to share
    og:description = Inspiring people to share
    og:description.attribute = property
    og:locale = en_GB
    og:locale.attribute = property
    og:locale:alternate {
      attribute = property
      value.1 = fr_FR
      value.2 = de DE
    refresh = 5; url=http://example.com/
    refresh.attribute = http-equiv
```



#### languageField Set by Default

- TypoScript option select (used in cObject CONTENT for example) required to set languageField explicitly
- This is not required anymore, as the setting is now fetched from the TCA information structure automatically

```
config.sys_language_uid = 2
page.10 = CONTENT
page.10 {
  table = tt_content
  select.where = colPos=0

# the following line is not required anymore:
#select.languageField = sys_language_uid
  renderObj = TEXT
  renderObj.field = header
  renderObj.htmlSpecialChars = 1
}
```



#### **Individual Content Caching**

 Since TYP03 CMS 7.4 an individual content caching exists which compare to stdWrap.cache - also works with COA objects (similar to "Magento Block Caching")

```
page = PAGE
                                                     [...]
page.10 = COA
                                                      20 = TEXT
page.10 {
                                                       20 €
  cache.key = coaout
                                                         data = date : U
  cache lifetime = 60
                                                         strftime = %H:%M:%S
  #stdWrap.cache.kev = coastdWrap
                                                        noTrimWrap = |20: | |
  #stdWrap.cache.lifetime = 60
  10 = TEXT
  10 €
    cache.key = mycurrenttimestamp
    cache.lifetime = 60
    data = date · II
    strftime = %H:%M:%S
    noTrimWrap = |10: | |
[...]
```



#### Count Elements in a List

- A new property returnCount has been added to the stdWrap property split
- This allows to count the number of elements in a comma-separated list
- The following code returns 9 for example:

```
1 = TEXT
1 {
  value = x,y,z,1,2,3,a,b,c
  split.token = ,
  split.returnCount = 1
}
```



#### Sort Order of Tables in List View

- New TSconfig option mod.web\_list.tableDisplayOrder has been added to the "List" module
- With this option, the order in which tables are displayed is configurable
- Keywords before and after can be used to specify an order relative to other table names

#### Syntax:

```
mod.web_list.tableDisplayOrder {
  <tableName> {
    before = <tableA>, <tableB>, ...
    after = <tableA>, <tableB>, ...
}
}
```

#### For example:

```
mod.web_list.tableDisplayOrder {
  be_users.after = be_groups
  sys_filemounts.after = be_users
  pages_language_overlay.before = pages
  fe_users.after = fe_groups
  fe_users.before = pages
}
```



#### Content-Language in HTTP Header

- HTTP header Content-language: XX is sent by default, where "XX" is the ISO code of the sys\_language\_content configuration
- By using config.disableLanguageHeader = 1, this feature can be disabled (do not send the Content-language header at all)



#### **Recursive Option for File Collections**

- Folder-based file collections have an option to fetch all files recursively in the given folder now
- The option is also available in the TypoScript Object FILES

```
filecollection = FILES
filecollection {
  folders = 1:images/
  folders.recursive = 1
  renderObj = IMAGE
  renderObj {
    file.import.data = file:current:uid
  }
}
```



#### **Extension** .ts for Static Templates

- In TYPO3 CMS < 7.4, only the following file names are allowed as static TypoScript templates:
  - constants.txt
  - setup.txt
  - include\_static.txt
  - include\_static\_files.txt
- For constants and setup, file extension .ts is also allowed now
- In this context, .ts is prioritised over .txt



#### Save & view Button

- Button "save & view" is configurable via TSconfig now
- TSconfig TCEMAIN.preview.disableButtonForDokType accepts a comma-separated list of "doktypes"
- Default value is "254, 255, 199" (which is: Storage Folder, Recycler and Menu Separator)
- As a consequence, the "save & view" button is not shown in folders and recycler pages by default anymore



#### stdWrap for treatIdAsReference

- For object getImgResource the option treatIdAsReference exists, which can be used to define that UIDs are treated as UIDs of sys\_file\_reference rather than sys\_file.
- Option treatIdAsReference received stdWrap functionality now



TSconfig & TypoScript: Data Processors

Chapter 3:

TSconfig & TypoScript: Data Processors



#### **Introducing Data Processors**

- The following Data Processors have been introduced, which allow for a flexible processing of comma-separated lists, arrays, files, etc.:
  - SplitProcessor
  - CommaSeparatedValueProcessor
  - FilesProcessor
  - GalleryProcessor
  - DatabaseQueryProcessor
- See: TYPO3\CMS\Frontend\DataProcessing



#### The SplitProcessor

The "SplitProcessor" allows to split values separated by a delimiter into an array

```
page.10 = FLUIDTEMPLATE
page.10.file = EXT:site_default/Resources/Private/Template/Default.html
page.10.dataProcessing.2 = TYPO3\CMS\Frontend\DataProcessing\SplitProcessor
page.10.dataProcessing.2 {
   if.isTrue.field = bodytext
   delimiter = ,
   fieldName = bodytext
   removeEmptyEntries = 1
   filterIntegers = 1
   filterUnique = 1
   as = keywords
}
```

#### Possible usage in Fluid:

```
<f:for each="{keywords}" as="keyword">
Keyword: {keyword}
</f:for>
```



#### The CommaSeparatedValueProcessor (1)

The "CommaSeparatedValueProcessor" splits values separated by a delimiter in a two-dimensional array:

```
page.10 = FLUIDTEMPLATE
page.10.file = EXT:site_default/Resources/Private/Template/Default.html
page.10.dataProcessing.4 = TYP03\CMS\Frontend\DataProcessing\CommaSeparatedValueProcessor
page.10.dataProcessing.4 {
   if.isTrue.field = bodytext
   fieldName = bodytext
   fieldDelimiter = |
    fieldEnclosure =
   maximumColumns = 2
   as = table
}
```

Useful to process CSV files for example or tt\_content data sets of CType "table"

See an example usage in Fluid on the following slide



#### The CommaSeparatedValueProcessor (2)

Possible usage in Fluid:



#### The FilesProcessor (1)

The "FilesProcessor" resolves file references, files, or files inside a folder or collection to be used for output in the frontend

```
tt_content.image.20 = FLUIDTEMPLATE
tt_content.image.20 {
    file = EXT:myextension/Resources/Private/Templates/ContentObjects/Image.html
    dataProcessing.10 = TYPO3\CMS\Frontend\DataProcessing\FilesProcessor
    dataProcessing.10 {
        references.fieldName = image
        references.fieldName = it_content
        files = 21,42
        collections = 13,14
        folders = 1:introduction/images/,1:introduction/posters/
        folders.recursive = 1
        sorting = description
        sorting = description
        sorting.direction = descending
        as = myfiles
    }
}
```

See an example usage in Fluid on the following slide



#### The FilesProcessor (2)

Possible usage in Fluid:

```
  <f:for each="{myfiles}" as="file">
  <a href="{file.publicUrl}">{file.name}</a>

  <f:for>
```



#### The GalleryProcessor

■ The "GalleryProcessor" calculates the max asset size of file sets

```
tt content.text media.20 = FLUIDTEMPLATE
tt content.image.20 {
 file = EXT:myextension/Resources/Private/Templates/ContentObjects/Image.html
 dataProcessing {
    10 = TYPO3\CMS\Frontend\DataProcessing\FilesProcessor
    20 = TYPO3\CMS\Frontend\DataProcessing\GalleryProcessor
    20 €
      filesProcessedDataKev = files
      mediaOrientation.field = imageorient
      numberOfColumns.field = imagecols
      equalMediaHeight.field = imageheight
      equalMediaWidth.field = imagewidth
      maxGalleryWidth = 1000
      maxGalleryWidthInText = 1000
      columnSpacing = 0
      borderEnabled.field = imageborder
      borderWidth = 0
      borderPadding = 10
      as = gallery
```



#### The DatabaseQueryProcessor (1)

The "DatabaseQueryProcessor" can be used to fetch data from the database

```
tt_content.mycontent.20 = FLUIDTEMPLATE
tt_content.mycontent.20 {
   file = EXT:myextension/Resources/Private/Templates/ContentObjects/MyContent.html
   dataProcessing.10 = TYPO3\CMS\Frontend\DataProcessing\DatabaseQueryProcessor
   dataProcessing.10 {
      if.isFrue.field = records
      table = tt_address
      colPos = 1
      pidInList = 13,14
      as = myrecords
      dataProcessing {
        10 = TYPO3\CMS\Frontend\DataProcessing\FilesProcessor
      10 {
            references.fieldName = image
      }
    }
}
```

See an example usage in Fluid on the following slide



#### The DatabaseQueryProcessor (2)

Possible usage in Fluid:

```
    <fi>for each="{myrecords}" as="record">
    <f:image image="{record.files.0}" ></f:image>
        <a href="{record.data.www}">{record.data.first_name} {record.data.last_name}</a>

    </f:for>
```



# Chapter 4: In-Depth Changes



#### **Driver Interface**

- The following methods have been added to DriverInterface:
  - getFolderInFolder
  - getFileInFolder
- Every FAL driver should implement these new methods:

#### **BREAKING CHANGE!**



#### IEC/SI Support in File Size Formatting

File size formatting supports two keywords additionally to the list of labels now:

```
iec (default)
(power of 2, labels: | Ki| Mi| Gi| Ti| Pi| Ei| Zi| Yi)
si
(power of 10, labels: | k| M| G| T| P| E| Z| Y)
```

Set formating in TypoScript for example:

```
bytes.labels = iec
echo GeneralUtility::formatSize(85123);
// => before "83.1 K"
// => now "83.13 Ki"
```



#### **Dependency Ordering Service (1)**

- In many cases it is necessary to create a sorted list of items from a set of "dependencies". The ordered list is then used to execute actions in the given order.
- Some examples where the TYPO3 core uses this are:
  - hook execution order,
  - extension loading order,
  - listing of menu items,
  - etc.
- The DependencyResolver has been re-worked and provides a DependencyOrderingService now



#### Dependency Ordering Service (2)

#### Usage:

```
$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['someExt']['someHook'][<some id>] = [
   'handler' => someClass::class,
   'runBefore' => [ <some other ID> ],
   'runAfter' => [ ... ],
   ...
];
```

#### Example:

```
$hooks = $GLOBALS['TYP03_CONF_VARS']['EXTCONF']['someExt']['someHook'];
$sorted = GeneralUtility:makeInstance(DependencyOrderingService::class)->orderByDependencies(
$hooks, 'runBefore', 'runAfter'
);
```



#### Hooks and Signals (1)

- Hook to post-process InlineRecordContainer::checkAccess results has been added
- InlineRecordContainer::checkAccess can be used to check the access to related inline records
- The following code registers the hook:

```
$GLOBALS['TYPO3_CONF_VARS']['SC_OPTIONS']['t3lib/class.t3lib_tceforms_inline.php']
['checkAccess'][] = 'My\\Package\\HookClass->hookMethod';
```



#### Hooks and Signals (2)

- Hook to post-process login failures in AbstractUserAuthentication::checkAuthentication has been added
- Process stalls for 5 seconds in case of a failed login by default
- Using this new hook, alternative solutions could be implemented (e.g. to prevent brute force attacks)
- The following code registers the hook:

```
$GLOBALS['TYPO3_CONF_VARS']['SC_OPTIONS']['t3lib/class.t3lib_userauth.php']
['postLoginFailureProcessing'][] = 'My\\Package\\HookClass->hookMethod';
```



#### Hooks and Signals (3)

- New signal recordMarkedAsMissing is emitted when the FAL indexer encounters a sys\_file record which does not have a corresponding filesystem entry and marks it as missing. The signal passes the sys\_file record UID.
- This is useful in extensions which provide or extend file management capabilities such as versioning, synchronizations, recovery, etc.
- Signal afterMappingSingleRow is emitted whenever the DataMapper creates an object



#### **HTML** in TypoLink Titles

- Quotes in TypoLink titles are escaped automatically now
- This means, instances where HTML codes are already escaped manually, will break the frontend output in TYPO CMS 7.4

```
Before: 'Some "special" title'
Becomes: 'Some "special" title'
```

It is recommended to avoid escaping, due to the fact that TYPO3 takes care of escaping HTML in TypoLink titles now

#### **BREAKING CHANGE!**



#### Miscellaneous (1)

- By configuring the backend user permission Files->replace, users can be allowed to or prevented from replacing Files in module Filelist
- A hash is used in the filename of files, generated by the FileWriter, if no other log file has been configured
  - before: typo3temp/logs/typo3.log
  - now: typo3temp/logs/typo3\_<hash>.log

(value <hash> is calculated based on the encryption key)



#### Miscellaneous (2)

- Classes used in hooks have to follow the autoloading mechanism
- Therefore the hook definition can be shortened now:

```
$GLOBALS['TYPO3_CONF_VARS']['SC_OPTIONS']['tce']['formevals']
[\TYPO3\CMS\Saltedpasswords\Evaluation\FrontendEvaluator::class] = '';
```

**BREAKING CHANGE!** 



## Chapter 5:

Extbase & Fluid



#### **Anchor for Pagination Widget**

- This new feature allows to add a key section to the configuration of a Fluid pagination widget
- The anchor gets appended to every link of the pagination widget
- The following code adds an anchor #archive:

```
<f:widget.paginate objects="{plantpestWarnings}" as="paginatedWarnings"
configuration="{section: 'archive', itemsPerPage: 10, insertAbove: 0, insertBelow: 1,
maximumNumberOfLinks: 10}">
   [...]
</f:widget.paginate>
```



#### Attribute base for DateViewHelper

- DateViewHelper has been extended by an optional attribute named base
- The attribute can be used to calculate relative time specification for dates
- If the date is a DateTime object, base is ignored
- The following example returns "2016", if dateObject is a date in 2017:

```
<f:format.date format="Y" base="{dateObject}">-1 year</f:format.date>
(see PHP documentation for a list of valid values)
```



#### Option dataProcessing for FLUIDTEMPLATE

- In TYPO3 CMS 7.3, option dataProcessing for cObject FLUIDTEMPLATE has been introduced
- Its FluidTemplateDataProcessorInterface has been refactored to DataProcessorInterface, which also affects method process()

```
public function process(
   ContentObjectRenderer $cObj,
   array $contentObjectConfiguration,
   array $processorConfiguration,
   array $processedData
):
```

#### **BREAKING CHANGE!**



### Chapter 6:

### **Deprecated/Removed Functions**



#### System Extension cms Removed (1)

- System extension cms has been removed
- Extension developers should review dependency settings in file ext\_emconf.php

 Most of the functionality has been migrated to system extension frontend (this might require an update of language references, see next slide)



#### System Extension cms Removed (2)

#### Required updates of references to language files:

```
OLD: tvpo3/svsext/cms/web info/locallang.xlf
NEW: typo3/sysext/frontend/Resources/Private/Language/locallang webinfo.xlf
OLD: tvpo3/svsext/cms/locallang ttc.xlf
NEW: typo3/sysext/frontend/Resources/Private/Language/locallang_ttc.xlf
OLD: typo3/sysext/cms/locallang_tca.xlf
NEW: typo3/sysext/frontend/Resources/Private/Language/locallang tca.xlf
OLD: typo3/sysext/cms/layout/locallang_db_new_content_el.xlf
NEW: typo3/sysext/backend/Resources/Private/Language/locallang db new content el.xlf
OLD: typo3/sysext/cms/layout/locallang.xlf
NEW: tvpo3/sysext/backend/Resources/Private/Language/locallang layout.xlf
OLD: tvpo3/svsext/cms/lavout/locallang mod.xlf
NEW: tvpo3/sysext/backend/Resources/Private/Language/locallang mod.xlf
OLD: tvpo3/svsext/cms/locallang csh webinfo.xlf
NEW: typo3/sysext/frontend/Resources/Private/Language/locallang_csh_webinfo.xlf
OLD: typo3/sysext/cms/locallang_csh_weblayout.xlf
NEW: typo3/sysext/frontend/Resources/Private/Language/locallang csh weblayout.xlf
```



#### PageRenderer Methods Deprecated

The following PageRenderer methods have been classified as deprecated:

```
TYPO3\CMS\Backend\Controller\BackendController::getPageRenderer()
TYPO3\CMS\Backend\Template\DocumentTemplate::getPageRenderer()
TYPO3\CMS\Backend\Template\FrontendDocumentTemplate::getPageRenderer()
TYPO3\CMS\Frontend\Controller\TypoScriptFrontendController::getPageRenderer()
```

The following code should be used to get an instance of the PageRenderer instead:

```
\TYPO3\CMS\Core\Utility\GeneralUtility::makeInstance(\TYPO3\CMS\Core\Page\PageRenderer::class)
```



#### Deprecated GeneralUtility Methods

The following GeneralUtility methods have been classified as deprecated and will be removed in TYPO3 CMS version 8:

```
GeneralUtility::modifyHTMLColor()
GeneralUtility::modifyHTMLColorAll()
GeneralUtility::isBrokenEmailEnvironment()
GeneralUtility::normalizeMailAddress()
GeneralUtility::formatForTextarea()
GeneralUtility::getThisUrl()
GeneralUtility::cleanOutputBuffers()
GeneralUtility::readLLfile()
```

Method readLLfile() can be replaced by the following code:

```
/** @var $languageFactory \TYPO3\CMS\Core\Localization\LocalizationFactory */
$languageFactory = GeneralUtility::makeInstance(
  \TYPO3\CMS\Core\Localization\LocalizationFactory::class
);
$languageFactory->getParsedData($fileToParse, $language, $renderCharset, $errorMode);
```



#### **JavaScript Libraries Removed**

- JavaScript libraries prototype.js and scriptaculous have been removed. As a consequence, the following TypoScript properties do not have any functionality anymore:
  - page.javascriptLibs.Prototype
  - page.javascriptLibs.Scriptaculous.\*
- Using the following attributes in ViewHelper be.container results in an error:
  - <f:be.container loadPrototype="false" loadScriptaculous="false"
     scriptaculousModule="someModule,someOtherModule">
- As a replacement, jQuery and RequireJS should be used (which are already loaded in the backend by default)



**Deprecated:** init.php, mod.php and ajax.php

- In order to clean up the content of folder typo3, the following files have been marked as deprecated: init.php, mod.php and ajax.php
- The following code can be used for Init Entry Points:

```
call_user_func(function() {
    $classLoader = require __DIR__ . '/vendor/autoload.php';
    (new \TYPO3\CMS\Backend\Http\Application($classLoader))->run();
});
```

The following method call can be used to access mod.php:

```
BackendUtility::getModuleUrl()
```



#### TCA: Additional Palette Removed

- String showitem of TCA key types allowed developers to define an additional palette
- This has been removed and migrated to the normal palette now
- Before:

```
'types' => array(
  'aType' => array(
  'showitem' => 'aField;aLabel;anAdditionalPaletteName',
  ),
),
```

■ Now:

```
'types' => array(
   'aType' => array(
        'showitem' => 'aField;aLabel, --palette--;;anAdditionalPaletteName',
),
),
),
```



#### Miscellaneous (1)

- cObjects "Text" and "Text with Images" had a checkbox "RTE enabled" in the past. This has been removed, including the appropriate TCA option flag.
- The following TypoScript options to include PHP files have been removed:
  - config.includeLibrary
  - config.includeLibs
- Directory typo3/ext has been removed (but not the option to use global extensions: the directory can be created manually)



#### Miscellaneous (2)

- ExtCore (a standalone, slim ExtJS adapter) has been removed, including the following TypoScript options:
  - page.javascriptLibs.ExtCore.\*
  - page.javascriptLibs.ExtJs.\*

This also includes the option in the <f:be.container> ViewHelper

So called "BigButtons" ("Edit Page Properties", "Move Page",...) have been removed, including their TSconfig settings mod.we\_layout.disableBigButtons



#### Miscellaneous (3)

- Error- and exception handling can not longer be configured in extensions (e.g. overwritten in ext\_localconf.php), but in files LocalConfiguration.php or AdditionalConfiguration.php only
- Field "General Record Storage Page", which contained the storage PID for a page, has been removed. The storage PID must be configured using TypoScript or FlexForms now.
- Function IconUtility::getIcon() has been classified as
  deprecated (use method
  IconUtility::getSpriteIconForRecord() instead)



#### **Sources and Authors**

# Chapter 7: Sources and Authors



#### **Sources and Authors**

#### Sources

#### TYP03 News:

■ http://typo3.org/news

#### Release Infos:

- http://wiki.typo3.org/TYPO3\_CMS\_7.4.0
- INSTALL.md and ChangeLog
- typo3/sysext/core/Documentation/Changelog/7.4/\*

#### TYP03 Bug-/Issuetracker:

■ https://forge.typo3.org/projects/typo3cms-core

#### TYP03 Git Repositories:

- https://git.typo3.org/Packages/TYPO3.CMS.git
- https://git.typo3.org/Packages/TYPO3.Fluid.git



#### **Sources and Authors**

#### TYP03 CMS What's New Slides:

Patrick Lobacher (Research, Information Gathering and German Version) Michael Schams (Project Leader and English Version)

#### Translations by:

Andrey Aksenov, Paul Blondiaux, Pierrick Caillon, Sergio Catala, Jigal van Hemert, Michel Mix, Sinisa Mitrovic, Angeliki Plati, Nena Jelena Radovic, Roberto Torresani

http://typo3.org/download/release-notes/whats-new

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