

TYPO3 CMS 7.4 – Sta je novo

Sazet prikaz novih opcija, promena i poboljsanja

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TYPO3 CMS 7.4 - Sta je novo

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Uvod

TYPO3 CMS 7.4 - Cinjenice

- Datum objavljivanja: 04. Avgust 2015
- Tip objavljivanja: "Brza objava" ("Sprint Release")
- Vizija: Prihvatiti, inovirati, dostaviti
- Glavni fokus: Remont administratorskog interfejsa drugi deo

Uvod

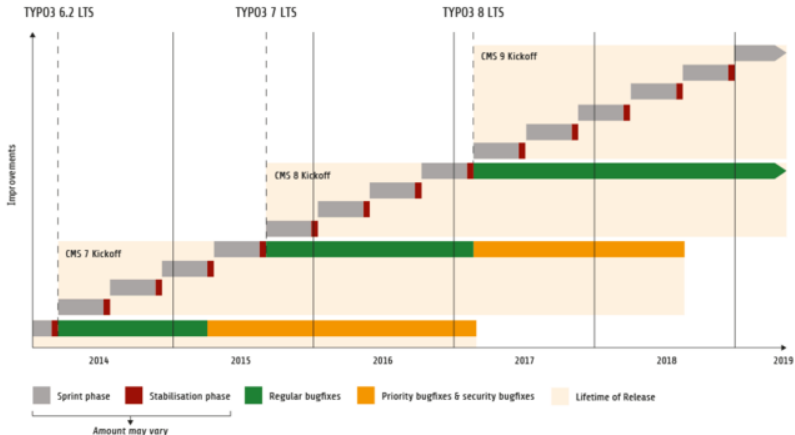
Sistemske zahteve

- PHP*: v5.5.0 – v5.6.x
- MySQL: v5.5.x – v5.6.x (no strict mode)
- Prostor na disku: min 200 MB
- PHP podesavanja:
 - `memory_limit` \geq 128M
 - `max_execution_time` \geq 240s
 - opcija `-disable-ipv6` ne sme se koristiti
- Administratorski interfejs zahteva IE \geq 9 ili bilo koji drugi moderni pretraživač

*) Dodatno objašnjenje: [PHP Minimum Requirements for TYPO3 CMS 7](#)

Uvod

Vreme razvoja i datumi objavljivanja



Uvod

TYPO3 CMS plan

Predvidjeni datumi objavljivanja i njihov osnovni fokus:

- v7.0 02/Dec/2014 Remont administratorskog interfejsa prvi deo
- v7.1 24/Feb/2015 Ciscenje osnove sistema i optimizacija
- v7.2 28/Apr/2015 Korisnicki interfejs
- v7.3 16/Jun/2015 Ekosistem za dodatke, Composer i upravljanje prosirenjima
- v7.4 04/Aug/2015 Remont administratorskog interfejsa drugi deo
- v7.5 29/Sep/2015 (*bice odredjeno...*)
- v7.6 xx/xxx/2015 **TYPO3 CMS 7 LTS**
(Verzija sa dugorocnom podrskom)

<https://typo3.org/typo3-cms/roadmap/>

<http://typo3.org/news/article/embrace-and-innovate-typo3-cms-7/>

Uvod

Instalacija

- Zvanicna procedura za instalaciju na Linux/Mac OS X (DocumentRoot na primer /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
```

- Simbolicki linkovi (Symbolic links) na Microsoft Windows:
 - Koristiti junction za Windows XP/2000
 - Koristiti mlink za Windows Vista i Windows 7

Uvod

Nadogradnja na TYPO3 CMS 7.x

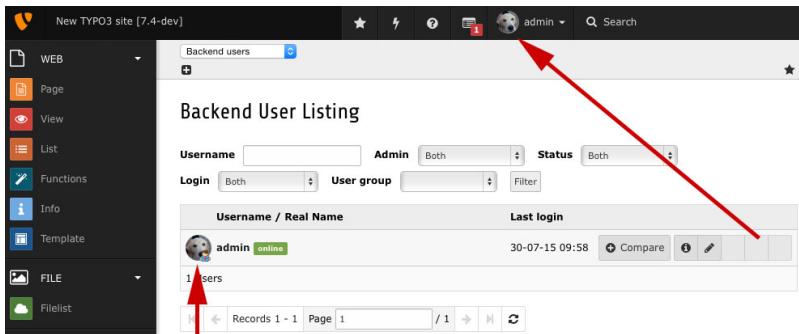
- Nadogradnja je moguća samo sa TYPO3 CMS 6.2 LTS
- TYPO3 CMS < 6.2 bi prvo trebalo nadograditi na TYPO3 CMS 6.2 LTS
- Usputstvo za nadogradnju:
http://wiki.typo3.org/Upgrade#Upgrading_to_7.3
- Zvanični TYPO3 vodič "TYPO3 Installation and Upgrading":
<http://docs.typo3.org/typo3cms/InstallationGuide>
- Opšti pristup:
 - Proveriti minimalne sistemske zahte (PHP, MySQL, itd.)
 - Proveriti **deprecation_*.log** u staroj TYPO3 instanci
 - Nadograditi sva proširenja na najnoviju verziju
 - Postaviti nove fajlove i pokrenuti Install Tool → Upgrade Wizard
 - Proveriti startup modul za administratore (opciono)

Poglavlje 1: Administratorski interfejs

Administratorski interfejs

Avatari za korisnike administratorskog interfejsa

Kako bi se poboljšalo korisničko iskustvo u zajedničkom editovanju sadržaja, urednici sada mogu koristiti avatare. Ove male korisnicke slicice prikazuju se u gornjem baru, listi korisnika i na drugim mestima.

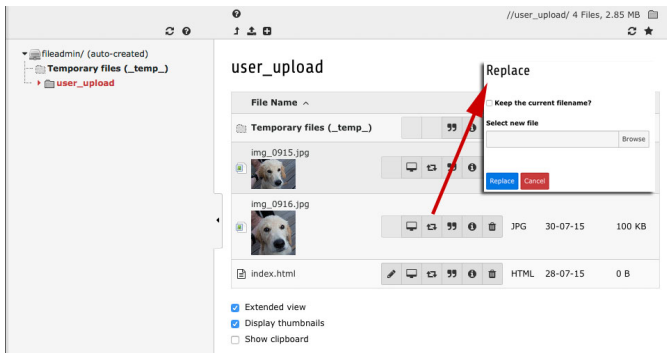


The screenshot displays the TYPO3 Backend User Listing interface. At the top, a navigation bar shows the user 'admin' with a profile picture (avatar) and a notification icon. A red arrow points to this avatar. Below the navigation bar, the 'Backend User Listing' section features a table with columns for 'Username / Real Name' and 'Last login'. The table contains one entry for the user 'admin', who is shown with a profile picture and the status 'online'. A red arrow points to this avatar. Below the table, a summary bar indicates '1 users'. At the bottom, a pagination bar shows 'Records 1 - 1 Page 1 / 1'.

Administratorski interfejs

Zamena fajlova

Fajlovi u FAL rekord listi sada mogu biti **zamenjeni** (moga biti omogucen "extended view"). Ime fajla postojećeg fajla moze da se zadrzi ili promeni.



The screenshot displays the TYPO3 File Administration List (FAL) interface. On the left, a sidebar shows the file system structure: fileadmin/ (auto-created) > Temporary files (_temp_) > user_upload. The main area shows a list of files in the 'user_upload' folder. A red arrow points from the 'Replace' icon in the file list to a 'Replace' dialog box. The dialog box has the title 'Replace' and contains the following elements:

- Keep the current filename?
- Select new file: [input field] [Browse]
- [Replace] [Cancel]

Below the file list, there are checkboxes for 'Extended view' (checked), 'Display thumbnails' (checked), and 'Show clipboard' (unchecked).

File Name	Size	Format	Date	Size
Temporary files (_temp_)	55			
img_0915.jpg				
img_0916.jpg		JPG	30-07-15	100 KB
index.html		HTML	28-07-15	0 B

Administratorski interfejs

Online status za korisnike administratorskog interfejsa

Online status za korisnike administratorskog interfejsa može se videti u "Backend Users" modulu.

Backend User Listing

Username Admin Status Login
User group Filter

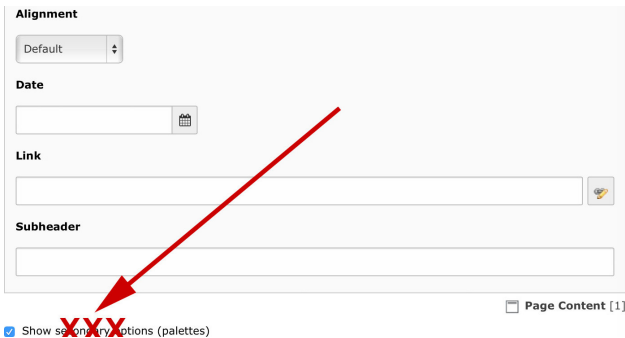
Username / Real Name	Last login				
 admin online Rocky	30-07-15 17:25	<input type="button" value="+ Compare"/>	<input type="button" value="i"/>	<input type="button" value="pencil"/>	<input type="button" value=""/>
 admin0	Never	<input type="button" value="+ Compare"/>	<input type="button" value="i"/>	<input type="button" value="pencil"/>	<input type="button" value="moon"/>
2 Users					

Records 1 - 2 Page / 1

Administratorski interfejs

Sekundarne opcije uklonjene

Cekboks "Show secondary options (palettes)", TScong opcija strane `options.enableShowPalettes` i TCA podesavanje su uklonjeni. Paleta su uvek vidljive i sada se vise ne mogu sakriti.



The screenshot shows a configuration panel with the following sections:

- Alignment**: A dropdown menu set to "Default".
- Date**: An empty text input field with a calendar icon on the right.
- Link**: An empty text input field with a magnifying glass icon on the right.
- Subheader**: An empty text input field.

At the bottom of the panel, there is a checkbox labeled "Show secondary options (palettes)" which is checked. A red arrow points to this checkbox, and the text "XXX" is written in red over the checkbox label. To the right of the panel, there is a checkbox labeled "Page Content [1]" which is unchecked.

Administratorski interfejs

Opis za korisnike administratorskog interfejsa

Novo polje "Description" dodato je rekordima koji se ticu korisnika administratorskog interfejsa.

x [Icons] [Icons] [Icons] [Icons] [Icons] ☆ ✕

Edit Backend user "admin" on root level

General Options Access

Disable:
—

Username:
admin ✕

Password:
***** ✕

Avatar
Allowed file extensions:
GIF JPG JPEG TIF TIFF BMP PCX TGA PNG PDF AI SVG

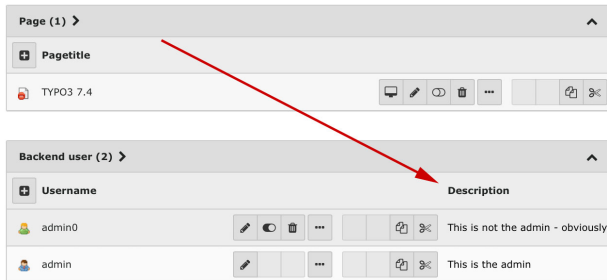
Filename img_0514.jpg [Icons]

Description:

Administratorski interfejs

Opis za kolone tabela

Konfiguracijom kolona (najcesce opis) u podesavanjima TCA [`'TCA'`] [`'ctrl'`] [`'descriptionColumn'`], moze se prikazati opis (poboljsava upotrebljivost za urednike i administratore).



The screenshot displays two table configuration panels in the TYPO3 CMS 7.4 interface. The top panel is for 'Page (1)' and shows a table with one column named 'Pagetitle'. The bottom panel is for 'Backend user (2)' and shows a table with two columns: 'Username' and 'Description'. A red arrow points from the 'Pagetitle' column in the top panel to the 'Description' column in the bottom panel, illustrating the configuration change. The 'Backend user' table contains two rows: one for 'admin0' with the description 'This is not the admin - obviously' and one for 'admin' with the description 'This is the admin'. Both rows have edit, toggle, and delete icons. The top panel also has a 'TYPO3 7.4' label and a set of action icons.

Administratorski interfejs

Opis za skladište fajlova (filemounts)

Novo polje "Description" dodato je rekordima koji se tice skladišta fajlova. Polje omogućava administratorima da dodaju kratki opis o tome za šta se određeno skladište fajlova koristi, koje fajlove sadrži itd.

Create new Filemount on root level

Label:

Disable:

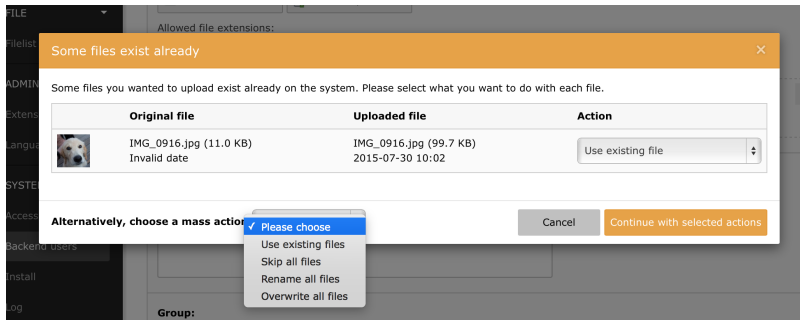
Description:

Remaining characters: 1928


Administratorski interfejs

Upozorenje za postojeće fajlove prilikom dodavanja novih

Ukoliko ce novi fajl pregaziti vec postojeći fajl, prikazuje se upozorenje koje pita korisnika da izabere akciju (npr. zameni, preimenuj ili preskoci).



The screenshot shows a dialog box titled "Some files exist already" with a close button (X) in the top right corner. The dialog contains the following text: "Some files you wanted to upload exist already on the system. Please select what you want to do with each file." Below this text is a table with three columns: "Original file", "Uploaded file", and "Action".

Original file	Uploaded file	Action
 IMG_0916.jpg (11.0 KB) Invalid date	IMG_0916.jpg (99.7 KB) 2015-07-30 10:02	Use existing file

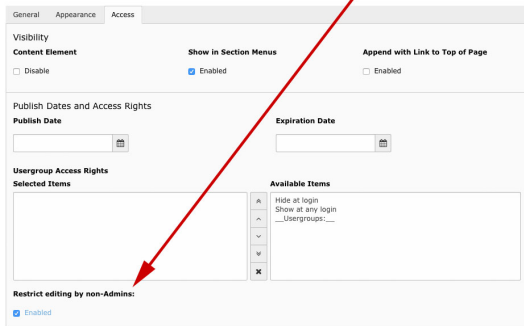
Below the table, there is a section titled "Alternatively, choose a mass action" with a dropdown menu. The dropdown menu is open, showing the following options: "Please choose" (selected), "Use existing files", "Skip all files", "Rename all files", and "Overwrite all files". To the right of the dropdown are two buttons: "Cancel" and "Continue with selected actions".

Administratorski interfejs

Restrikcije u editovanju elemenata sadržaja

Elementi sadržaja sada mogu biti ograničeni da mogu trpeti izmene samo od administratora (slicno funkciji za strane "Restrict editing by non-Admins").

Create new Page Content on page "TYPO3 7.4"



The screenshot displays the 'Access' configuration tab for a new page content element. The interface includes several sections:

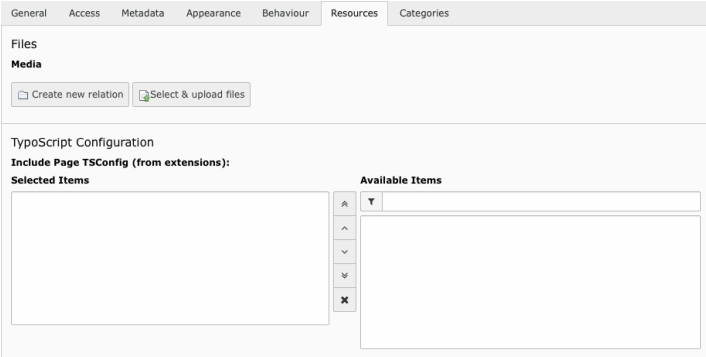
- Visibility:** Contains three checkboxes: 'Content Element' (unchecked), 'Show in Section Menu' (checked), and 'Append with Link to Top of Page' (unchecked).
- Publish Dates and Access Rights:** Includes 'Publish Date' and 'Expiration Date' fields, each with a calendar icon.
- Usergroup Access Rights:** Features a 'Selected Items' list (currently empty) and an 'Available Items' list containing 'Hide at login', 'Show at any login', and 'Usergroups: ...'. Navigation arrows and a close button are visible between the lists.
- Restrict editing by non-Admins:** A checkbox at the bottom left, which is checked.

A red arrow originates from the top right of the 'Access' tab and points directly to the 'Restrict editing by non-Admins' checkbox.

Administratorski interfejs

Uključivanje Static TScnfig fajlova (1)

U dodatnim podesavanjima strane postoji opcija za uključivanje TScnfig fajla na strani (isti način na koji se uključuje TypoScript).



The screenshot displays the 'Resources' tab in the TYPO3 administrator interface. At the top, there are several tabs: 'General', 'Access', 'Metadata', 'Appearance', 'Behaviour', 'Resources', and 'Categories'. The 'Resources' tab is currently selected. Below the tabs, there is a section titled 'Files' with a sub-section 'Media'. This section contains two buttons: 'Create new relation' and 'Select & upload files'. Below this, there is a section titled 'TypoScript Configuration' with a sub-section 'Include Page TSCnfig (from extensions):'. This section is divided into two columns: 'Selected Items' and 'Available Items'. The 'Selected Items' column is currently empty. The 'Available Items' column has a search bar at the top and a large empty list area below it. A vertical toolbar with icons for up, down, and delete is positioned between the two columns.

Administratorski interfejs

Uključivanje Static TSconfig fajlova (2)

Sledeći metod registruje TSconfig fajl strane:

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

Administratorski interfejs

Stvarne kopije elemenata sadržaja

Dodato je novo dugme svakoj koloni na "Page" modulu koje dozvoljava stvarne kopije elemenata sadržaja na drugim jezicima (ne samo reference).

TYPO3 7.4

Default



Left

Content

Normal

Content

Header
Content

Content

Right

Content

Austrian



Left

Content

Normal

Content

This is austrian content

Content

Translate default content elements [1]

Right

Content

Klingon



Left

Content

Normal

Content

Translate default content elements [1]

- Copy from default language
- Copy from language "Austrian"

Right

Content

Poglavlje 2: TSconfig i TypoScript

TScnfig i TypoScript

Data-Provider za sablone administratorskog interfejsa (1)

- Sada je moguće definisati sablone administratorskog interfejsa preko TScnfig strane i takođe ih sačuvati u fajlovima. Na primer:

```
mod {
  web_layout {
    BackendLayouts {
      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
                  }
                }
              }
            }
          }
        }
      }
    }
  }
  [...]
}
```


TSconfig i TypoScript

Prosireni meta tagovi

- Opcija `page.meta` sada podrzava **Open Graph** atribute

```
page {
  meta {
    X-UA-Compatible = IE=edge,chrome=1
    X-UA-Compatible.attribute = http-equiv
    keywords = TYPO3
    # <meta property="og:site_name" content="TYPO3" />
    og:site_name = TYPO3
    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
  }
}
```

TSconfig i TypeScript

languageField kao podrazumevano podesavanje

- TypeScript opcija `select` (koristi se na primer kod cObject CONTENT) bila je potrebna da bi se `languageField` eksplicitno setovao
- Ovo vise nije obavezno posto se podesavanje sada automatski dohvata iz strukture informacija TCA

```
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
}
```

TSconfig i TypoScript

Individualno kesiranje sadržaja

- Od TYPO3 CMS 7.4 postoji individualno kesiranje sadržaja koje - upoređeno sa `stdWrap.cache` - takodje radi sa COA objektima (slicno kao "Magento Block Caching")

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

```
[...]
20 = TEXT
20 {
    data = date : U
    strftime = %H:%M:%S
    noTrimWrap = |20: | |
}
}
```

TSconfig i TypeScript

Broj elemenata u listi

- Nova osobina `returnCount` dodata je u `stdWrap` osobinu `split`
- Ovo omogućava da se izbroji broj elemenata u listi ciji su elementi odvojeni zarezom
- Sledeci kod, na primer vraca 9:

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

TSconfig i TypeScript

Sortiranje tabela u List pregledu

- Dodata je nova TSconfig opcija `mod.web_list.tableDisplayOrder` u "List" modul
- Sa ovom opcijom moguće je konfigurirati redosled u kome će se tabele prikazivati
- Knjižne reči pre i posle mogu se iskoristiti za postavljanje redosleda u odnosu na druga imena tabela

Sintaksa:

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

Na primer:

```
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  
}
```

TSconfig i TYPOScript

Content-Language u HTTP hederu

- HTTP heder `Content-language`: `XX` se salje kao podrazumevana vrednost, gde je "XX" ISO kod `sys_language_content` konfiguracije
- Ova opcija se moze onemoguciti setovanjem `config.disableLanguageHeader = 1` (uopste ne salje `Content-language` heder)

TSconfig i TypoScript

Opcija rekurzije za kolekcije fajlova

- Kolekcije fajlova bazirane na grupisanje po folderima sada imaju opciju da rekurzivno dohvate sve fajlove u datom folderu
- Opcija je takodje dostupna za TypoScript objekat FILES

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


TSconfig i TypoScript

Ekstenzija `.ts` za Static Templates

- U TYPO3 CMS < 7.4, samo su sledeca imena fajlova bila dozvoljena kao staticki TypoScript sabloni:
 - `constants.txt`
 - `setup.txt`
 - `include_static.txt`
 - `include_static_files.txt`
- Fajl ekstenzija `.ts` sada je takodje dozvoljena i za `constants` i `setup`.
- U ovom kontekstu, `.ts` ima prioritet nad `.txt`

TSconfig i TypoScript

Save & view dugme

- Dugme "save & view" ada se moze konfigurirati preko TSconfig-a
- TSconfig `TCEMAIN.preview.disableButtonForDokType` prihvata "doktypes" liste razdvojene zarezom
- Podrazumevane vrednosti su "254, 255, 199" (za: Storage Folder, Recycler i Menu Separator)
- Kao posledica, dugme "save & view" se vise ne prikazuje u folderima i recycler pages kao podrazumevano

TSconfig i TypoScript

stdWrap za treatIdAsReference

- Za objekat `getImgResource` postoji opcija `treatIdAsReference`, koja se može iskoristiti za definisanje da se UID tretiraju kao UID od `sys_file_reference` a ne od `sys_file`.
- Opcija `treatIdAsReference` sada je dobila `stdWrap` funkcionalnost

Poglavlje 3:

TSconfig i TypoScript: Data Processors

TSconfig i TypeScript: Data Processors

Predstavljanje Data Processors

- Predstavljani su sledeci Data Processors, sto dozvoljava fleksibilno procesuiranje lista odvojenih zarezom, nizova, fajlova itd.:
 - SplitProcessor
 - CommaSeparatedValueProcessor
 - FilesProcessor
 - GalleryProcessor
 - DatabaseQueryProcessor
- Pogledati: `TYP03\CMS\Frontend\DataProcessing`

TSconfig i TypeScript: Data Processors

SplitProcessor

- "SplitProcessor" dozvoljava da se vrednosti odvojene razdvojnikom podele u nizova

```
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
}
```

- Moguca primena u Fluid-u:

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

TSconfig i TypeScript: Data Processors

CommaSeparatedValueProcessor (1)

- "CommaSeparatedValueProcessor" deli vrednosti odvojene razdvojnikom u dvodimenzionalni niz:

```
page.10 = FLUIDTEMPLATE
page.10.file = EXT:site_default/Resources/Private/Template/Default.html
page.10.dataProcessing.4 = TYPO3\CMS\Frontend\DataProcessing\CommaSeparatedValueProcessor
page.10.dataProcessing.4 {
    if.isTrue.field = bodytext
    fieldName = bodytext
    fieldDelimiter = |
    fieldEnclosure =
    maximumColumns = 2
    as = table
}
```

- Na primer, korisno za procesuiranje CSV fajlova ili setove podataka iz `tt_content` tabele tipa `CType`

Pogledati primer primene u Fluid-u na sledecem slajdu

TSconfig i TypeScript: Data Processors

CommaSeparatedValueProcessor (2)

■ Moguca primena u Fluid-u:

```
<table>
  <f:for each="{table}" as="columns">
    <tr>
      <f:for each="{columns}" as="column">
        <td>
          {column}
        </td>
      </f:for>
    <tr>
  </f:for>
</table>
```


TSconfig i TypeScript: Data Processors

FilesProcessor (1)

- "FilesProcessor" sredjuje da se na korisnickom interfejsu prikazu reference fajlova, fajlovi, ili fajlovi unutar foldera

```
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.table = tt_content
        files = 21,42
        collections = 13,14
        folders = 1:introduction/images/,1:introduction/posters/
        folders.recursive = 1
        sorting = description
        sorting.direction = descending
        as = myfiles
    }
}
```

Pogledati primer primene u Fluid-u na sledecem slajdu

TScnfig i TypoScript: Data Processors

FilesProcessor (2)

■ Moguca primena u Fluid-u:

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

TSconfig i TypeScript: Data Processors

GalleryProcessor

- "GalleryProcessor" izracunava maksimalnu velicinu grupe fajlova

```
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 {
            filesProcessedDataKey = 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
        }
    }
}
```

TScnfig i TypoScript: Data Processors

DatabaseQueryProcessor (1)

- "DatabaseQueryProcessor" se moze koristiti za dohvatanje podataka iz baze podataka

```
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.isTrue.field = records
        table = tt_address
        colPos = 1
        pidInList = 13,14
        as = myrecords
        dataProcessing {
            10 = TYPO3\CMS\Frontend\DataProcessing\FilesProcessor
            10 {
                references.fieldName = image
            }
        }
    }
}
```

Pogledati primer primene u Fluid-u na sledecem slajdu

TSconfig i TypeScript: Data Processors

DatabaseQueryProcessor (2)

■ Moguca primena u Fluid-u:

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

Poglavlje 4: Korenite promene

Korenite promene

Driver Interface

- Sledece metode pridodate su DriverInterface:
 - getFolderInFolder
 - getFileInFolder
- Svaki FAL drajver trebalo bi da implementira ove nove metode:

```
public function getFoldersInFolder(  
    $folderIdentifier,  
    $start = 0,  
    $numberOfItems = 0,  
    $recursive = FALSE,  
    array $folderNameFilterCallbacks = array(),  
    $sort = '',  
    $sortRev = FALSE  
);
```

```
public function getFileInFolder(  
    $fileName,  
    $folderIdentifier  
);
```

BREAKING CHANGE!

Korenite promene

IEC/SI podrška za formatiranje velicine fajla

- Formatiranje velicine fajla sada podržava dve ključne reci dodatno u odnosu na listu labela:
 - `iec` (podrazumevano)
(moc 2, labele: | Ki | Mi | Gi | Ti | Pi | Ei | Zi | Yi)
 - `si`
(moc 10, labele: | k | M | G | T | P | E | Z | Y)
- Podesiti formatiranje u TypoScript-u na primer:
`bytes.labels = iec`

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


Korenite promene

Dependency Ordering Service (1)

- U mnogo slucajeva je neophodno napraviti sortiranu listu od seta zavisnih funkcija - "dependencies". Ovako sortirana lista koristi se kako bi se akcije izvrsile u datom redosledu.
- Neki od primera u kojima ovo koristi TYPO3 srz su:
 - redosled pozivanja hukova,
 - redosled učitavanja prosirenja,
 - listanje stavki iz menija,
 - itd.
- The `DependencyResolver` je preradjjen i sada dozvoljava `DependencyOrderingService`

Korenite promene

Dependency Ordering Service (2)

■ Primena:

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

■ Primer:

```
$hooks = $GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['someExt']['someHook'];
$sorted = GeneralUtility::makeInstance(DependencyOrderingService::class)->orderByDependencies(
    $hooks, 'runBefore', 'runAfter'
);
```

Korenite promene

Hukovi i signali (1)

- Dodat je huk za post-process
InlineRecordContainer::checkAccess rezultate
- InlineRecordContainer::checkAccess se moze koristit da se proveru pristup povezanu rekordima istog nivoa
- Sledeci kod registruje huk:

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

Korenite promene

Hukovi i signali (2)

- Dodat je huk za post-process neuspelih prijavi na sajt u `AbstractUserAuthentication::checkAuthentication`
- Proces po podrazumevanom podesavanju odugovlaci 5 sekundi ukoliko je login bio neuspesan
- Koristeci ovaj novi huk mogu se implementirati alternativna resenja (npr. kako bi se sprecili napadi)
- Sledeci kod registruje huk:

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

Korenite promene

Hukovi i signali (3)

- Novi signal `recordMarkedAsMissing` emituje se kada FAL indekser naidje na `sys_file` rekord koji nema odgovarajuci fajl sistem unos i kada nedostaju njegove oznake. Signal preskoci UID `sys_file` rekorda.
- Ovo je korisno kod prosirenja koje obezbedjuju ili prosiruju mogucnosti upravljanja fajlovima kao sto su verzionisanje, sinhronizacija, oporavak, itd.
- Signal `afterMappingSingleRow` emituje se kad god `DataMapper` napravi objekat

Korenite promene

HTML u TypoLink naslovima

- Navodnici u TypoLink naslovima sada se automatski *izbegavaju*
- Ovo znaci da instance gde je HTML kod izbegnut rucno u TYPO CMS 7.4 ce popucati na korisnickom interfejsu
Pre: 'Some "special" title'
Postaje: 'Some &quot;special&quot; title'
- Preporucuje se da se izbegavanje zaobidje, zato sto TYPO3 sada sam brine o izbegavanju HTML-a u TypoLink naslovima

BREAKING CHANGE!

Korenite promene

Razno (1)

- Konfigurisanjem premisija za korisnike administratorskog interfejsa `Files->replace`, korisnicima se može dozvoliti ili zabraniti zamena fajlova u Filelist modulu
- Ukoliko nijedan drugi log nije konfigurisan, koristi se hes u imenu fajla, generisan uz pomoc FileWriter-a
 - pre: `typo3temp/logs/typo3.log`
 - sada: `typo3temp/logs/typo3_<hash>.log`

(vrednost `<hash>` je izracunata na osnovu enkripcionog ključa)

Korenite promene

Razno (2)

- Klase koje se koriste u huku moraju da prate mehanizam samoucitanja
- Stoga se definisanje huka sada moze skratiti:

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

BREAKING CHANGE!

Poglavlje 5: Extbase i Fluid

Sidro za Pagination Widget

- Ova nova karakteristika dozvoljava da se ključ `section` doda konfiguraciji za Fluid pagination widget
- Ankor se dodaje na svaki link pagination widget-a
- Sledeći kod dodaje sidro `#archive`:

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

```
[...]
```

```
</f:widget.paginate>
```

Extbase i Fluid

Atribut `base` za `DateViewHelper`

- `DateViewHelper` proširen je za opcionalni atribut pod imenom `base`
- Atribut se može koristiti kako bi se izračunale informacije datuma
- Ako je datum `DateTime` objekat, `base` se ignorise
- Sledeći primer vraća "2016", ako je `dateObject` datum iz 2017:

```
<f:format.date format="Y" base="{dateObject}">-1 year</f:format.date>
```

(pogledati [PHP dokumentaciju](#) za listu validnih vrednosti)

Extbase i Fluid

Opcija dataProcessing za FLUIDTEMPLATE

- U TYPO3 CMS 7.3, predstavljena je opcija dataProcessing za cObject FLUIDTEMPLATE
- Njegov FluidTemplateDataProcessorInterface je refaktorisan u DataProcessorInterface, koji isto utice na metod process()

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

BREAKING CHANGE!

Chapter 6: Zastarele/izbacene funkcije

Zastarele/izbacene funkcije

Uklonjeno sistemsko prosirenje cms (1)

- Sistemsko prosirenje cms je uklonjeno
- Developeri treba da provere u fajlu `ext_emconf.php` sta je neophodno da bi sistem radio

```
[...]  
'constraints' => array(  
    'depends' => array(  
        // 'cms' => ' ... ',          <= WRONG!  
        'typo3' => '7.0.0-7.99.99',  
    ),  
)  
[...]
```

- Vecina funkcionalnosti je migrirana u sistemsku ekstenziju `frontend` (ovo moze zahtevati da se osveze jezicki fajlovi, pogledati sledeci slajd)

Zastarele/izbacene funkcije

Uklonjeno sistemsko proširenje cms (2)

■ Neophodno unapredjenje referenci ka jezičkim fajlovima:

Staro: typo3/sysext/cms/web_info/locallang.xlf

Novo: typo3/sysext/frontend/Resources/Private/Language/locallang_webinfo.xlf

Staro: typo3/sysext/cms/locallang_ttc.xlf

Novo: typo3/sysext/frontend/Resources/Private/Language/locallang_ttc.xlf

Staro: typo3/sysext/cms/locallang_tca.xlf

Novo: typo3/sysext/frontend/Resources/Private/Language/locallang_tca.xlf

Staro: typo3/sysext/cms/layout/locallang_db_new_content_el.xlf

Novo: typo3/sysext/backend/Resources/Private/Language/locallang_db_new_content_el.xlf

Staro: typo3/sysext/cms/layout/locallang.xlf

Novo: typo3/sysext/backend/Resources/Private/Language/locallang_layout.xlf

Staro: typo3/sysext/cms/layout/locallang_mod.xlf

Novo: typo3/sysext/backend/Resources/Private/Language/locallang_mod.xlf

Staro: typo3/sysext/cms/locallang_csh_webinfo.xlf

Novo: typo3/sysext/frontend/Resources/Private/Language/locallang_csh_webinfo.xlf

Staro: typo3/sysext/cms/locallang_csh_weblayout.xlf

Novo: typo3/sysext/frontend/Resources/Private/Language/locallang_csh_weblayout.xlf

Zastarele/izbacene funkcije

Zastarele PageRenderer metode

- Sledece PageRenderer metode su oznacene kao **zastarele**:

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

- Umesto njih treba koristiti sledeci kod kako bi se doslo do instance PageRenderer-a:

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


Zastarele/izbacene funkcije

Zastarele GeneralUtility metode

- Sledece GeneralUtility metode su oznacene kao **zastarele** i bice uklonjene u TYPO3 CMS verziji 8:

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

- Metoda `readLLfile()` moze se zameniti sledecim kodom:

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

Zastarele/izbacene funkcije

Uklonjene JavaScript biblioteke

- JavaScript biblioteke `prototype.js` i `scriptaculous` su uklonjene. Kao posledica, sledece TypoScript osobine vise nemaju nikakvu funkcionalnost:
 - `page.javascriptLibs.Prototype`
 - `page.javascriptLibs.Scriptaculous.*`
- Koriscenje sledecih metoda u `ViewHelper be.container` rezultirace greskom:

```
<f:be.container loadPrototype="false" loadScriptaculous="false"
  scriptaculousModule="someModule,someOtherModule">
```
- Kao zamena trebalo bi koristiti `jQuery` i `RequireJS` (koji su vec ucitani u administratorski interfejs kao podrazumevano podesavanje)

Zastarele/izbacene funkcije

Zastareli: `init.php`, `mod.php` i `ajax.php`

- Kako bi se ocistio sadrzaj foldera `typo3`, sledeci fajlovi su oznaceni kao **zastareli**: `init.php`, `mod.php` i `ajax.php`
- Sledeci kod se moze iskoristiti za inicijalizovanje ulaznih tacaka:

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

- Sledeci poziv metode moze se iskoristiti kako bi se pristupilo `mod.php`:

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

Zastarele/izbacene funkcije

TCA: Uklonjena dodatna paleta

- String `showitem` TCA ključa `types` dozvoljavao je developerima da definišu dodatnu paletu
- Ovo je sada uklonjeno i migrirano u normalnu paletu
- Pre:

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

- Sada:

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

Zastarele/izbacene funkcije

Razno (1)

- cObjects "Text" i "Text with Images" u proslosti je imao je cekboks "RTE enabled". Ovo je uklonjeno, ukljucujuci i TCA opciju.
- Uklonjene su sledece TypoScript opcije za ukljucivanje PHP fajlova:
 - `config.includeLibrary`
 - `config.includeLibs`
- Uklonjen je direktorijum `typo3/ext`
(ali ne i opcija za koriscenje globalnih prosirenja: direktorijum se moze kreirati rucno)

Zastarele/izbacene funkcije

Razno (2)

- ExtCore (ExtJS adapter) je uklonjen, ukljucujuci i sledece TypoScript opcije:
 - `page.javascriptLibs.ExtCore.*`
 - `page.javascriptLibs.ExtJs.*`

Ovo takodje ukljucuje i opcije u `<f:be.container>` ViewHelper

- Uklonjeni su takozvani "BigButtons" ("Edit Page Properties", "Move Page",...) ukljucujuci i njihovo TSconfig podesavanje `mod.we_layout.disableBigButtons`

Zastarele/izbacene funkcije

Razno (3)

- Upravljanje greskama i izuzetcima se vise ne moze konfigurirati u prosirenjima (na primer pregaziti u `ext_localconf.php`), vec samo u fajlovima `LocalConfiguration.php` ili `AdditionalConfiguration.php`
- Uklonjeno je polje "General Record Storage Page", koje sadrzi storage PID strane. Storage PID se sada mora konfigurirati koriscenjem `TypoScript-a` ili `FlexForm-i`.
- Funkcija `IconUtility::getIcon()` oznacena je kao **zastarela** (umesto nje koristiti metodu `IconUtility::getSpriteIconForRecord()`)

Poglavlje 7: Izvori i autori

Izvori i autori

Izvori (1)

TYPO3 vesti:

- <http://typo3.org/news>

Informacije o izlasku nove verzije:

- http://wiki.typo3.org/TYPO3\CMS_7.4.0
- [INSTALL.md](#) and [Changelog](#)
- [typo3/sysext/core/Documentation/Changelog/7.4/*](http://typo3.org/typo3/sysext/core/Documentation/Changelog/7.4/*)

TYPO3 Bug-/Issuetracker:

- <https://forge.typo3.org/projects/typo3cms-core>

TYPO3 Git Repositories:

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

TYPO3 CMS What's New Slides:

Patrick Lobacher

(Istrazivanje, sakupljanje informacija i nemacka verzija)

Michael Schams

(Vodja projekta i engleska verzija)

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

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