

# TYPO3 CMS 6.1

A quick summary of the  
features, changes and improvements

# Chapter Overview

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- Introduction
- Backend Changes
- TypeScript
- In-Depth Changes
- Application Programming Interface (API)
- Extbase and Fluid
- Sources

# Introduction

---

## TYPO3 CMS 6.1 “Improve”

- Focus on stabilisation of existing code/features
  - Improving communication
  - Improving contributions
  - Improving the product

- Release manager:

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@bennimack

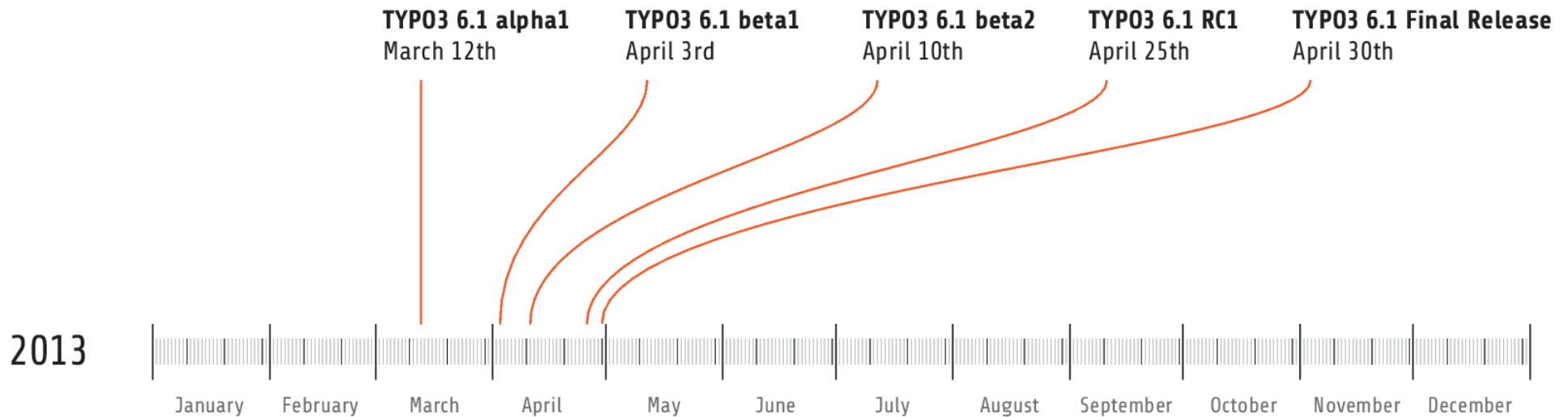


# Introduction

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## TYPO3 CMS 6.1 “Improve”

- Release date: 30 April 2013
- Release timeline:



# Introduction

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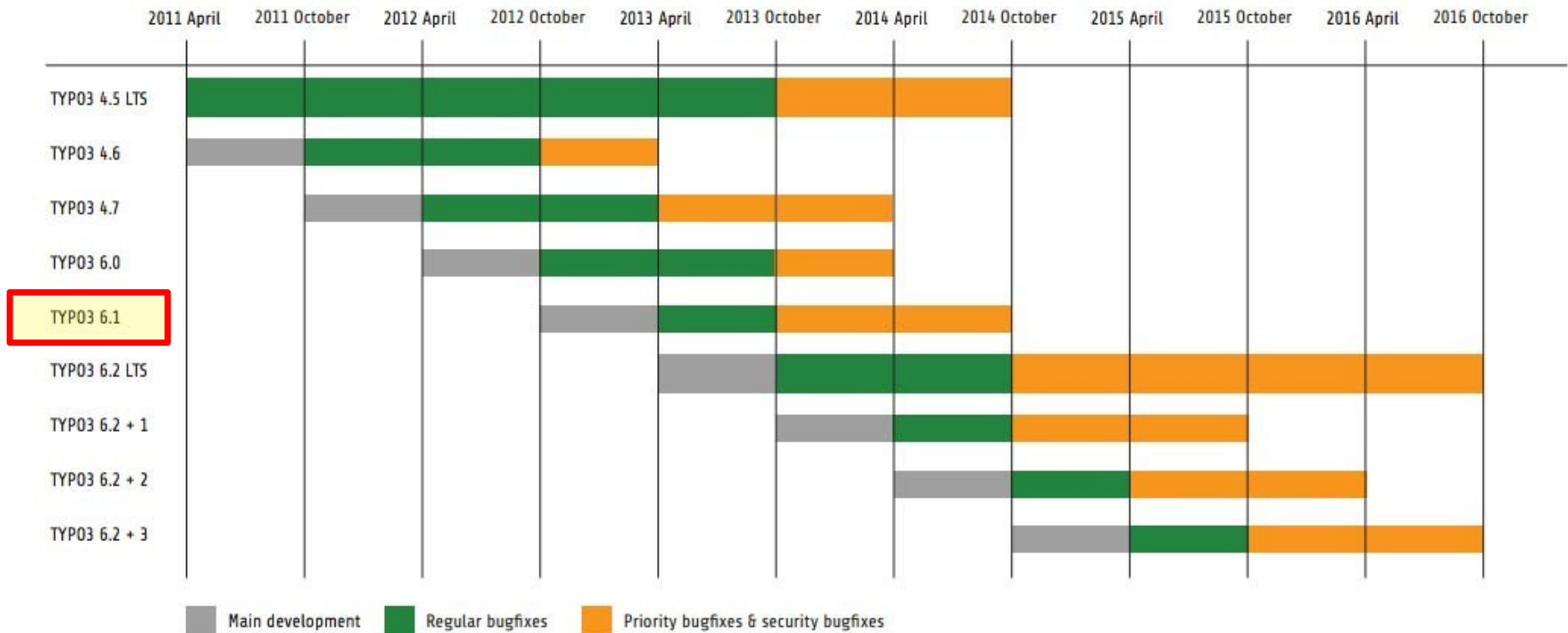
## TYPO3 CMS 6.1 “Improve”

- System requirements
  - PHP: v5.3.7 – v5.4.x
  - MySQL: v5.1.x – v5.5.x
- End of maintenance: 31 October 2014
- Not a Long Term Support (LTS) release  
(TYPO3 CMS 6.2 will be the next version with LTS)

# Introduction

## TYP03 CMS 6.1 “Improve”

- TYP03 release agenda:



# Chapter 1

---

## Backend Changes

# Backend Changes

## Wizard “New Content Element”:

- Content element “Header only” added

**New content element**

Please select the type of page content you wish to create:

Typical page content | Special elements | Form elements | Plugins

**Header Only**  
Adds a header only.

**Regular Text Element**  
A regular text element with header and bodytext fields.

**Text & Images**  
Any number of images wrapped right around a regular text element.

**Images Only**  
Any number of images aligned in columns and rows with a caption.

**Bullet List**  
A single bullet list.

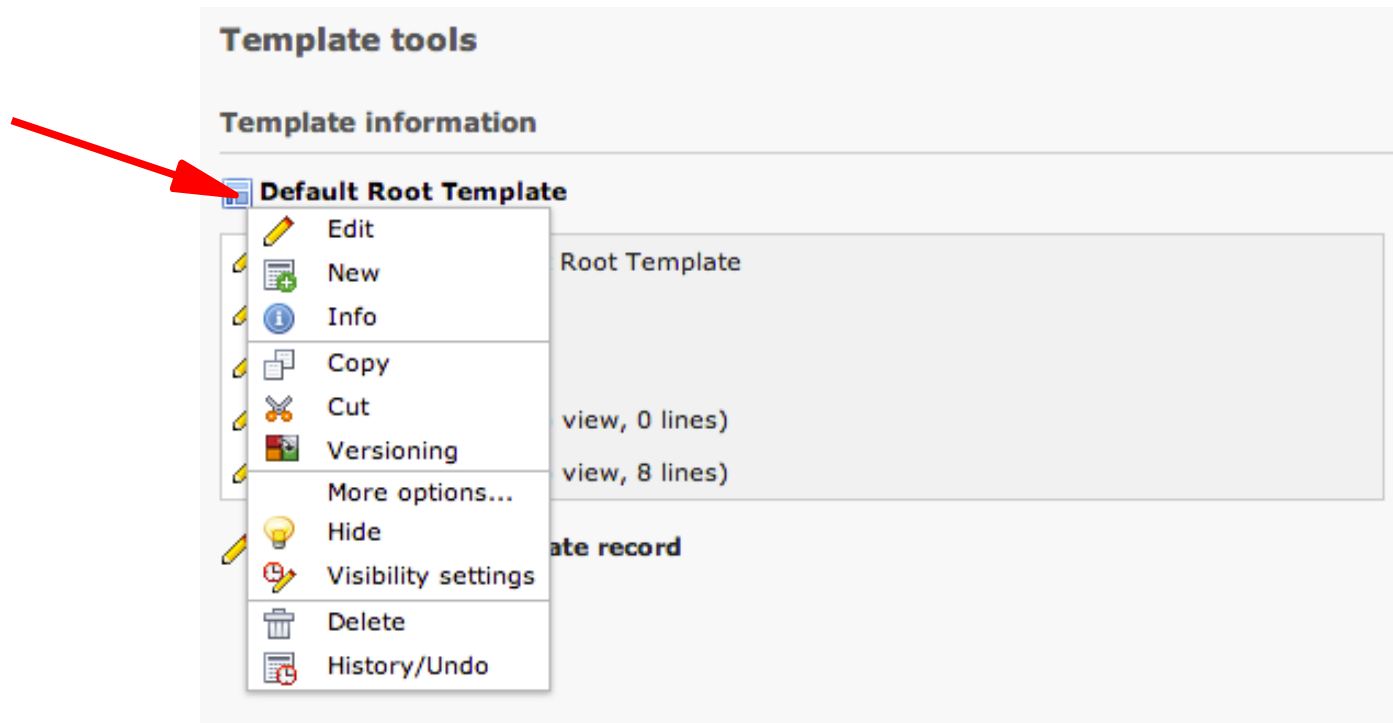
**Table**  
A simple table.



# Backend Changes

## Web → Templates:

- Context menu added to template record (icon)










# Backend Changes

















## Files → Filelist:

- Delete button added to list view

TYPO3 < 6.1

Filename ▲		Type	Date	Size	RW	Ref
 Temporary files (_temp_)	  	Folder	-	2 Files	<b>RW</b>	-
 user_upload	  	Folder	-	1 File	<b>RW</b>	-
 tv_logo_landscape.png	   	PNG	08-04-13	7.2 KB	<b>RW</b>	-

TYPO3 >= 6.1

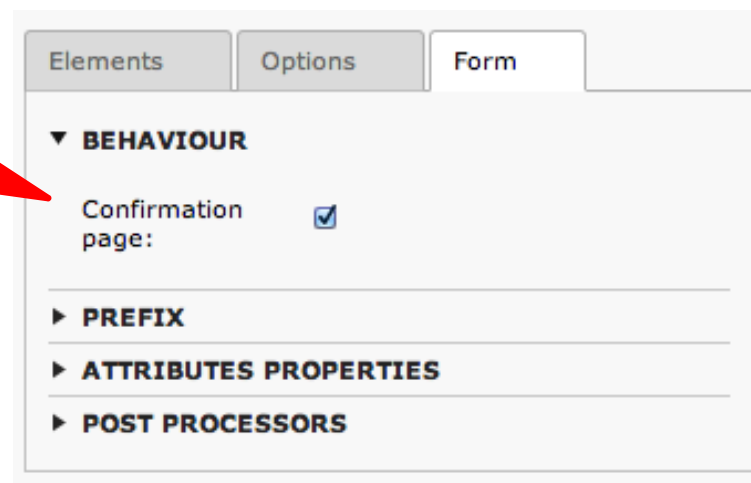
Filename ▲		Type	Date	Size	RW	Ref
 Temporary files (_temp_)	   	Folder	-	2 Files	<b>RW</b>	-
 user_upload	   	Folder	-	1 File	<b>RW</b>	-
 tv_logo_landscape.png	    	PNG	08-04-13	7.2 KB	<b>RW</b>	-

# Backend Changes

## cObject "FORM":

- Confirmation page can be enabled in backend (in the past: configuration in TypoScript only)

```
enctype = multipart/form-data
method = post
prefix = tx_form
confirmation = 1
postProcessor {
    1 = mail
    [...]
}
```



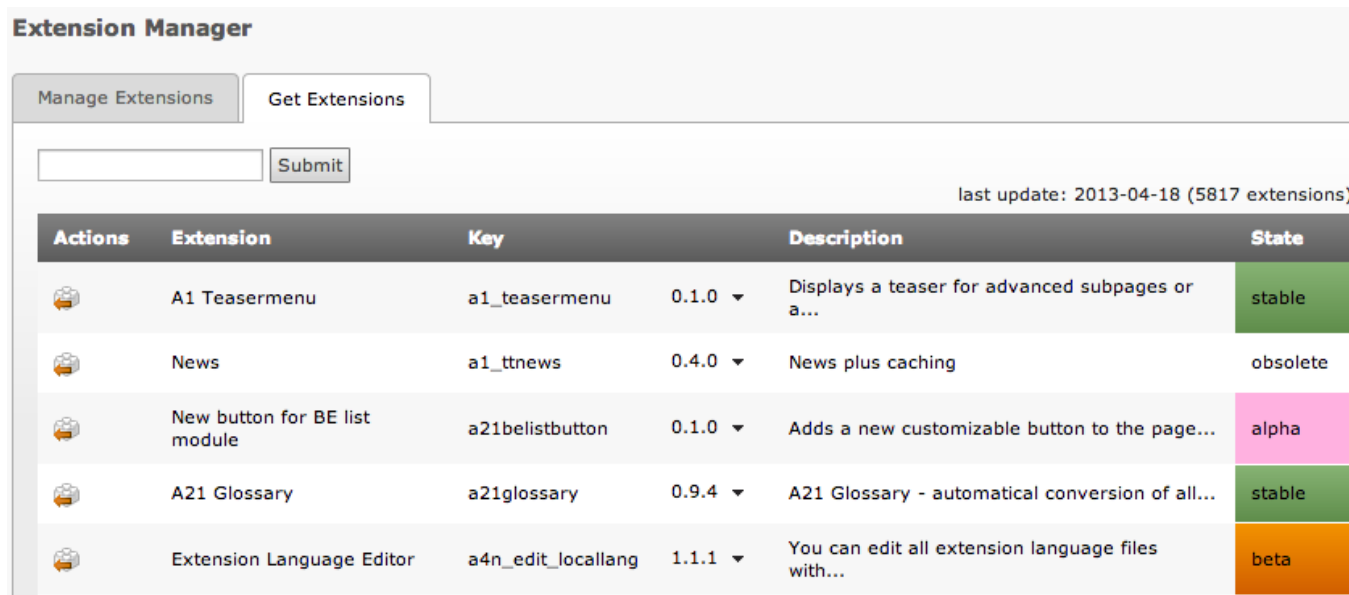
The screenshot shows the backend configuration for the 'Form' cObject. The 'Form' tab is active, and the 'BEHAVIOUR' section is expanded. The 'Confirmation page:' option is checked, indicating that the confirmation page is enabled. Other sections like 'PREFIX', 'ATTRIBUTES PROPERTIES', and 'POST PROCESSORS' are collapsed. A red arrow points to the 'Confirmation page:' checkbox.

# Backend Changes

## Extension Manager:

- Improved usability
- Function menu for manage/get extensions
- Direct link for “Show all versions”

TYPO3 < 6.1



The screenshot shows the 'Extension Manager' interface. At the top, there are two tabs: 'Manage Extensions' (selected) and 'Get Extensions'. Below the tabs is a search input field and a 'Submit' button. To the right of the search field, it says 'last update: 2013-04-18 (5817 extensions)'. Below this is a table with the following columns: 'Actions', 'Extension', 'Key', 'Description', and 'State'. The table contains five rows of extension data.

Actions	Extension	Key		Description	State
	A1 Teasermenu	a1_tasermenu	0.1.0 ▾	Displays a teaser for advanced subpages or a...	stable
	News	a1_ttnews	0.4.0 ▾	News plus caching	obsolete
	New button for BE list module	a21belistbutton	0.1.0 ▾	Adds a new customizable button to the page...	alpha
	A21 Glossary	a21glossary	0.9.4 ▾	A21 Glossary - automatical conversion of all...	stable
	Extension Language Editor	a4n_edit_loclang	1.1.1 ▾	You can edit all extension language files with...	beta

# Backend Changes

## Extension Manager:

- Improved usability
- Function menu for manage/get extensions ①
- Direct link for “Show all versions” ②

TYPO3 >= 6.1

①

②

Actions	Extension	Key	Version	Description	State
	A1 Teasermenu ▾	a1_teasermenu	0.1.0 ▾	Displays a teaser for advanced subpages or a...	stable
	News ▾	a1_ttnews	0.4.0 ▾	News plus caching	obsolete
	New button for BE list module ▾	a21belistbutton	0.1.0 ▾	Adds a new customizable button to the page...	alpha
	A21 Glossary ▾	a21glossary	0.9.4 ▾	A21 Glossary - automatical conversion of all...	stable
	Extension Language Editor ▾	a4n_edit_locallang	1.1.1 ▾	You can edit all extension language files with...	beta

# Backend Changes

---

## Systemextension “sys\_note”:

- Re-developed in Extbase/Fluid
- Edit button appears on mouse over



# Backend Changes

---

## Systemextension “sys\_note”:

- Very easy to customise visual appearance

### Constants:

```
module.tx_sysnote {
    view {

        # cat=Internal Notes/general/1000; type=string; label=Layout Root Path: Path to layouts
        layoutRootPath = EXT:sys_note/Resources/Private/Layouts/

        # cat=Internal Notes/general/1010; type=string; label=Partial Root Path: Path to partials
        partialRootPath = EXT:sys_note/Resources/Private/Partials/

        # cat=Internal Notes/general/1020; type=string; label=Template Root Path: Path to templates
        templateRootPath = EXT:sys_note/Resources/Private/Templates/

    }
}
```

# Backend Changes

---

## Systemextension “sys\_note”:

- Very easy to customise visual appearance

### Setup:

```
module.tx_sysnote {
    view {

        layoutRootPath = {$module.tx_sysnote.view.layoutRootPath}
        templateRootPath = {$module.tx_sysnote.view.templateRootPath}
        partialRootPath = {$module.tx_sysnote.view.partialRootPath}

    }
}
```



# Backend Changes

## Scheduler:


- Re-worked overview of tasks in Scheduler
  - Execute a task with one click 

**TYPO3 < 6.1**

ID	Task	Type
1	Update extension list (extensionmanager)	Recurring

**TYPO3 >= 6.1**

ID	Task	Type
1	Update extension list (extensionmanager)	Recurring



# Backend Changes

## Scheduler:

- Task “System Status Update”
  - Multiple email addresses are possible now

Disable

Class

Type

Start (HH:MM DD-MM-YYYY)

End (HH:MM DD-MM-YYYY)

Frequency (seconds or cron command)

Allow Parallel Execution

Notification Email Address

TYPO3 < 6.1



Frequency (seconds or cron command)  
Allow Parallel Execution  
Notification Email Addresses (one per line)

TYPO3 >= 6.1



# Backend Changes

---

## System Environment Check:

- Re-development of system checks
  - All checks separated in a “standalone script”
  - Independent to TYPO3
- Module “Reports” accesses and shows check results

### ▼ ⚠ System



#### System environment check

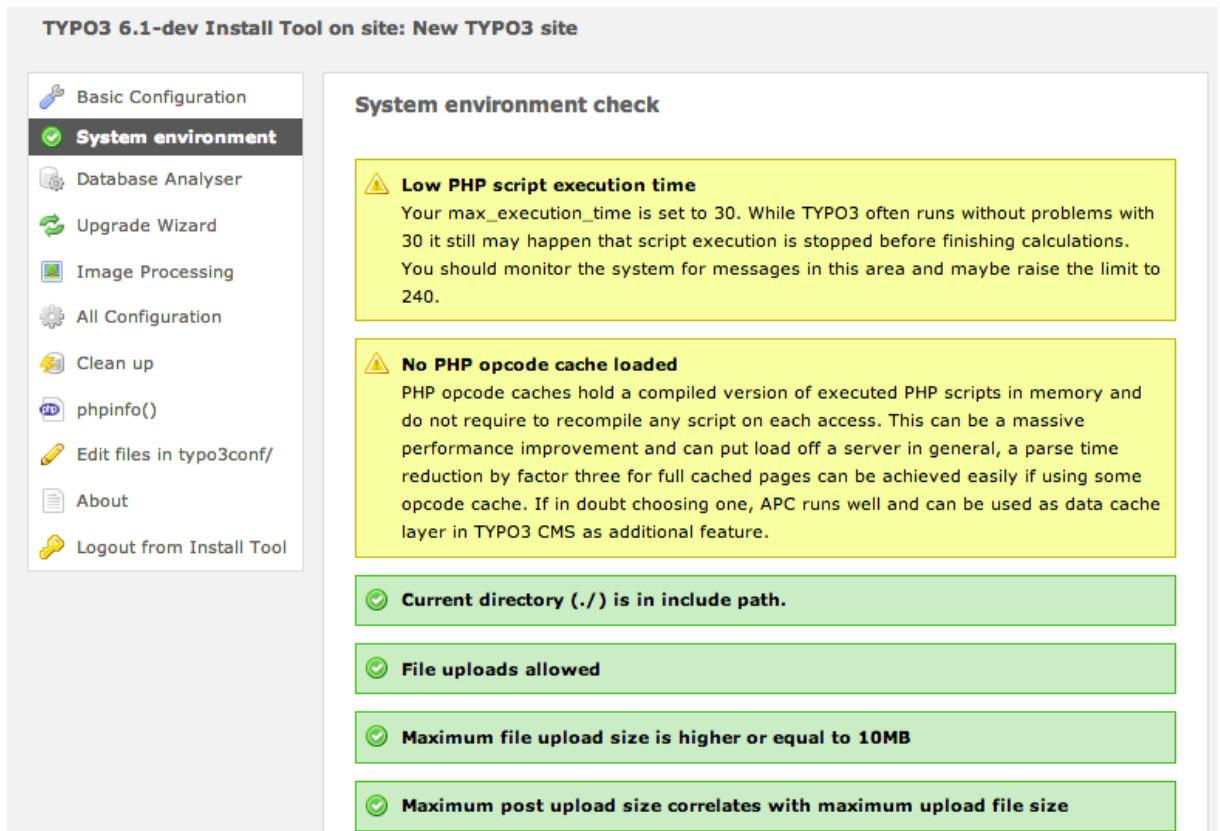
2 Test(s)

The system environment check returned warnings. Those errors might have a negative affect to the functionality and stability of your TYPO3 CMS instance. Please check the install tool "System environment" for all details.

# Backend Changes

## System Environment Check:

- New section in Install Tool
  - Green: ok
  - Yellow: warning
  - Red: fatal error



TYPO3 6.1-dev Install Tool on site: New TYPO3 site

Basic Configuration

**System environment**

Database Analyser

Upgrade Wizard

Image Processing

All Configuration

Clean up

phpinfo()

Edit files in typo3conf/

About

Logout from Install Tool

### System environment check

**⚠ Low PHP script execution time**  
Your max\_execution\_time is set to 30. While TYPO3 often runs without problems with 30 it still may happen that script execution is stopped before finishing calculations. You should monitor the system for messages in this area and maybe raise the limit to 240.

**⚠ No PHP opcode cache loaded**  
PHP opcode caches hold a compiled version of executed PHP scripts in memory and do not require to recompile any script on each access. This can be a massive performance improvement and can put load off a server in general, a parse time reduction by factor three for full cached pages can be achieved easily if using some opcode cache. If in doubt choosing one, APC runs well and can be used as data cache layer in TYPO3 CMS as additional feature.

**✔ Current directory (./) is in include path.**

**✔ File uploads allowed**

**✔ Maximum file upload size is higher or equal to 10MB**

**✔ Maximum post upload size correlates with maximum upload file size**

# Chapter 2

---

## TypoScript

# TypoScript

---

## strPad:

- New stdWrap function “strPad” pads a string to a certain length with another string or character

```
page.10 = TEXT
page.10.value = HELLO WORLD!
page.10.strPad {
    length = 15
    padWith = .
    type = left
}
```

## Output:

...HELLO WORLD!

# TypoScript

---

## disableBodyTag:

- Disable HTML `<body>` tag generated by TYPO3 core

```
config.disableBodyTag = 1
```

- For example useful, if `<body>` should be created (and customised) by a template engine such as TemplaVoilà

# TypoScript

---

## FLUIDTEMPLATE – cObject:

- Source of templates for FLUIDTEMPLATE can be cObjects now (previously: only files)

### Example 1: cObject “FILE”

```
page.10 = FLUIDTEMPLATE
page.10 {
```

```
    template = FILE
    template.file = fileadmin/templates/MyTemplate.html
```

```
    partialRootPath = fileadmin/templates/partial/
    variables {
        mylabel = TEXT
        mylabel.value = Hello World!
    }
```

```
}
```



# TypoScript

---

## FLUIDTEMPLATE – cObject:

- Source of templates for FLUIDTEMPLATE can be cObjects now (previously: only files)

### Example 2: cObject “TEXT”

```
page.10 = FLUIDTEMPLATE
page.10 {

    template = TEXT
    template.value = <h1>{data.title}</h1>

    partialRootPath = fileadmin/templates/partial/
    variables {
        mylabel = TEXT
        mylabel.value = Hello World!
    }
}
```

# TypoScript

---

## FLUIDTEMPLATE – Settings Array:

- Pass an array of values to FLUIDTEMPLATE by using the key word “settings”
- Constants are also supported

```
lib.globalSettings {
    foo = value
    bar = {$bar}
}

page = PAGE
page.10 = FLUIDTEMPLATE
page.10 {
    file = fileadmin/templates/MyTemplate.html
    settings < lib.globalSettings
}
```

Access values in template file:

{settings.foo} and {settings.bar}

# TypoScript

---

## splitChar:

- Defines “split” character for noTrimWrap in HMENUs (default is: “|”)

```
temp.mainMenu = HMENU
temp.mainMenu {
    [...]
    10 = TMENU
    10.NO {
        [...]
        10 = TEXT
        10 {
            text.field = title

            # line below does not work (rendered as optionSplit):
            # text.noTrimWrap = | -- | |

            text.noTrimWrap = * -- * *
            text.noTrimWrap.splitChar = *

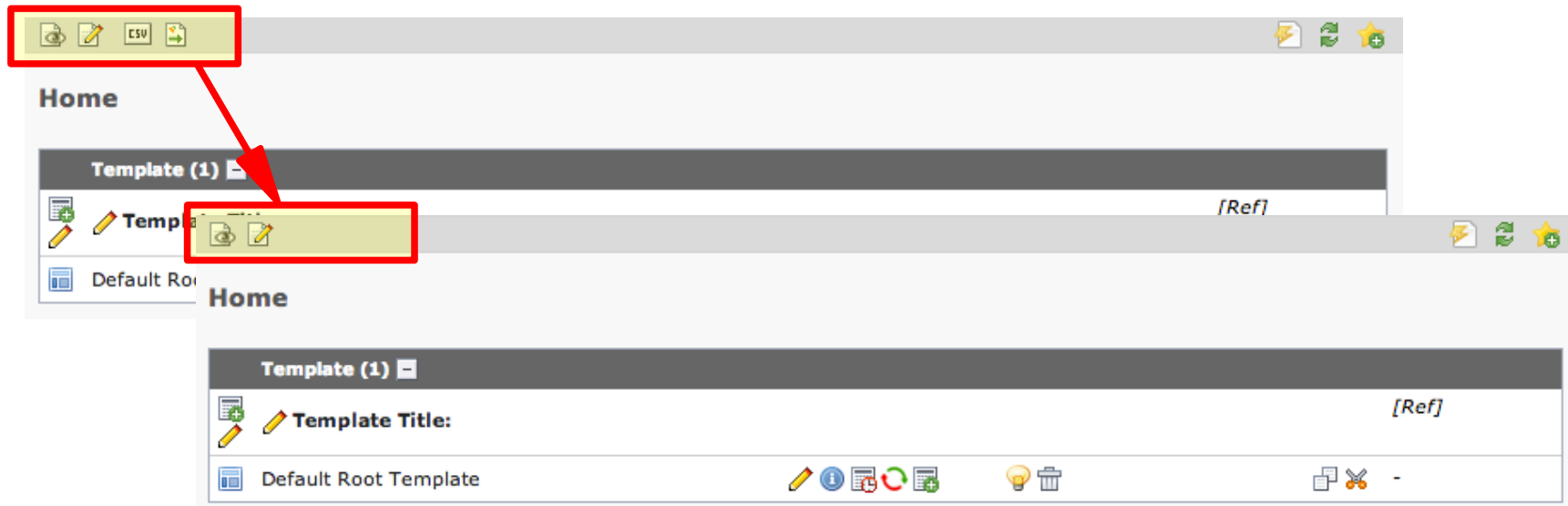
            [...]
        }
    }
}
```

# TypoScript

## TSconfig - Module "List":

- Disable links to export data in module "List"

```
mod.web_list.noExportRecordsLink = 1
```



# TypoScript

## Backend Layout Configuration:

- Include external files for backend layout configuration

Edit Backend Layout "Standard Layout" on page "Home"

**Disable:**

**Title**  
Standard Layout

**Icon**  
[Dropdown menu] [X] [Folder icon]

JPG GIF PNG  
[Datei auswählen] Keine ausgewählt

**Description**  
[Empty text area]

**Config**

```
backend_layout {
  colCount = 2
  rowCount = 1
  rows {
    1 {
      columns {
        1 {
          name = Linke Spalte
          colPos = 0
        }
        2 {
          name = Rechte Spalte
          colPos = 1
        }
      }
    }
  }
}
```

<INCLUDE\_TYPOSCRIPT: source="FILE:fileadmin/layout.ts">

# TypeScript

---

## Miscellaneous

- New functions to manipulate comma-separated values: `uniqueList()`, `reverseList()` and `sortList()`

```
page = PAGE  
page.10 = TEXT
```

```
page.10.value = 11,14,11,7  
// output: 11,14,11,7
```

```
page.10.value := uniqueList()  
// output: 11,14,7
```

```
page.10.value := reverseList()  
// output: 7,14,11
```

```
page.10.value := sortList(numeric,descending)  
// output: 14,11,7
```

```
page.10.value := sortList(numeric)  
// output: 7,11,14
```

# TypoScript

---

## Miscellaneous

- Remove all CSS generated via `_CSS_PAGE_STYLE` by extensions (e.g. `css_styled_content`)

```
config.removePageCss = 1
```

- Option `pageTitleSeparator` can be used with `StdWrap` functions

```
config.pageTitleSeparator = -  
config.pageTitleSeparator.noTrimWrap = | | |
```

- User TSconfig “`clearRTECache`” renamed

```
OLD:    options.clearCache.clearRTECache  
NEW:    options.clearCache.clearLangCache
```

**This is a breaking change!**

# TypoScript

---

## Miscellaneous

- Default values of cObject FORM can be used with stdWrap functions
- Add tags to pages  
(stored in database table "cache\_pages")

```
stdWrap.addPageCacheTags = pagetag1, pagetag2, pagetag3
```

- Remove page tags by TSconfig

```
TCEMAIN.clearCacheCmd = tag:pagetag1, tag:pagetag2, tag:pagetag3
```



# Chapter 3

---

## In-Depth Changes

# In-Depth Changes

---

## TCA Handling:

- Table Configuration Array (TCA) handling partly re-developed
- TCA is always loaded and cached in FE
- TCA is loaded in BE and option `dynamicConfigFile` became redundant (no differences between `'ctrl'` and `'columns'`)
- Extension developers should store the TCA file at:

EXT:*extensionkey*/Configuration/TCA/*tablename*.php

...which returns an array of table "*tablename*"

# In-Depth Changes

---

## TCA Handling:

- Sections 'ctrl' can be removed from file `ext_tables.php`
- Functions/methods became obsolete:
  - `TSFE->includeTCA()`
  - `TSFE->getCompressedTCarray()`
  - `GeneralUtility::loadTca()`
- Fallback for extensions which do not follow the new TCA scheme in `typo3conf/ext_tables.php`
- Directory `t3lib/stdcdb` removed  
(all files have been implemented in the TYPO3 core now)

# In-Depth Changes

---

## TCA – Field Display Conditions:

- Option `displayCond` supports multiple conditions and 'AND' and 'OR' now

```
'link_file' => array (  
    'exclude' => 0,  
    'label' => 'LLL:EXT:filelinks/locallang_db.xml:tx_filelinks.link_file',  
    'config' => array (  
        [...]  
    ),  
  
    'displayCond' => array(  
        'AND' => array(  
            'FIELD:testField:>:9',  
            'FIELD:testField:<:11',  
        ),  
    ),  
    [...]  
)
```

# In-Depth Changes

---

## RequireJS:

- JavaScript file and module loader
- Integrated in the TYPO3 core
- Available in FE and BE
- Supports Asynchronous Module Definition (AMD)  
(mechanism for defining modules such that the module and its dependencies can be asynchronously loaded)
- jQuery is already loaded via AMD, named “jQuery”



# In-Depth Changes

---

## RequireJS:

- Example for developers:

```
loadRequireJsModule(TYP03/CMS/PackageName/ModuleName);
```

...would load module:

```
EXT:PackageName/Resources/Public/JavaScript/ModuleName.js
```

# In-Depth Changes

---

## Database:

- Main DB connection class uses "mysqli" instead of the old "mysql" PHP extension
- "Lazy" database connection implemented
  - DB connection will be established by database connection class on demand
  - Bootstrap does not take care of initialisation
  - eID scripts do not need to call `connectDB()` any more

# In-Depth Changes

---

## PHP Opcode Caches:

- XCache cache backend added to caching framework  
<http://xcache.lighttpd.net/wiki/Introduction>
- Checks added to Install Tool:
  - Zend Optimizer Plus
  - Zend OPcache
  - wincache



# In-Depth Changes

---

## Miscellaneous

- Domain records are cached, when `typoLink` generates links, if the following option has been set:

```
config.typoLinkCheckRootline = 1
```

- Images from the Rich Text Editor (RTE) moved  
from: `uploads/RTEmagicC_*`  
to: `fileadmin/_migrated_/RTE/`

When updating to TYPO3 6.1, the update wizard moves the files and adds them to the storage index

# In-Depth Changes

---

## Removed Components:

- Systemextension “statictemplates” removed from TYPO3 core

Install Tool → Upgrade Wizard

imports and installs the extension from TER if required

- Flash library “swfupload” and Flash Uploader interface removed

The more robust HTML5 file uploader (introduced in TYPO3 6.0) works perfectly fine

## Application Programming Interface (API)

# Application Programming Interface (API)

---

## Database API:

- Method `searchQuery()` supports “AND” and “OR” now
- 4th parameter controls constraint (default: AND)

```
\TYPO3\CMS\Core\Database\DatabaseConnection
```

```
class DatabaseConnection {
```

```
    public function searchQuery(
```

```
        $searchWords,
```

```
        $fields,
```

```
        $table,
```

```
        $constraint = self::AND_Constraint) { // or: self::OR_Constraint
```

```
        [...]
```

```
    }
```

```
    )
```

```
}
```

# Application Programming Interface (API)

---

## Pre- and Post SELECT Hooks:

- See class:

```
\TYPO3\CMS\Core\Database\DatabaseConnection
```

- New pre-process-hook for SELECT statements

```
public function SELECTquery_preProcessAction(...) { ... }
```

- New post-process-hook for SELECT statements

```
public function exec_SELECTquery_postProcessAction(...) { ... }
```

# Application Programming Interface (API)

---

## CSS Styled Content Rendering Hook:

- See class:

```
\TYPO3\CMS\CssStyledContent\Controller\CssStyledContentController
```

- New hook in CSS Styled Content allows custom rendering of a media element

```
$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']...  
    ...['css_styled_content']['pi1_hooks']['render_singleMediaElement']
```

- Useful for FAL content such as videos or content embedded by JavaScript

# Chapter 5

---

## Extbase and Fluid

# Extbase and Fluid

---

## ClassNameingUtility:

- New class offers several functions related to naming and conversions of names

```
\TYPO3\CMS\Core\Utility\ClassNameingUtility
```

- **Methods:**

```
static public translateModelNameToRepositoryName($modelName) { ... }
```

```
static public translateModelNameToValidatorName($modelName) { ... }
```

```
static public translateRepositoryNameToModelName($repositoryName) { ... }
```

```
static public explodeObjectControllerName($controllerObjectName) { ... }
```



# Extbase and Fluid

---

## Extbase – Recursive Storage PID:

- Set storage PID recursively via TypoScript (default value: 0)

```
plugin {
    tx_extension {
        persistence {
            storagePid = 1,2,3

            recursive = 99
        }
    }
}
```

# Extbase and Fluid

---

## Extbase – Overwrite Object Mapping:

- Overwrite object mapping via TypoScript

```
config.tx_extbase {
    objects {
        Tx_Extbase_Persistence_BackendInterface {
            className = Tx_MyExt_Persistence_Backend
        }
    }
}
```

...also works with plugin now:

```
plugin.tx_extension {
    objects {
        Tx_Extbase_Persistence_BackendInterface {
            className = Tx_MyExt_Persistence_Backend
        }
    }
}
```

# Extbase and Fluid

---

## Extbase – beforeCallActionMethod:

- Signal (hook) that is triggered prior execution of current action (callActionMethod)

```
$this->signalSlotDispatcher->dispatch(  
    __CLASS__,  
    'beforeCallActionMethod',  
    array(  
        'controllerName' =>    get_class($this),  
        'actionMethodName' => $this->actionMethodName,  
        'preparedArguments' => $preparedArguments  
    )  
);
```

# Extbase and Fluid

---

## Extbase – beforeCallActionMethod:

- Signal (hook) that is triggered prior execution of current action (callActionMethod)
- Slot usage example:

```
$this->getSignalSlotDispatcher()->connect(  
    '\TYPO3\CMS\Extbase\Mvc\Controller\ActionController',  
    'beforeCallActionMethod',  
    'Tx_MyExtension_CallActionSlot',  
    'beforeCallActionMethod'  
);
```

# Extbase and Fluid

---

## Extbase – Property Mapper:

- New (rewritten) Property Mapper ready for production environments  
(has been shipped with TYPO3 CMS since 4.6)

- Feature is enabled by default now

```
config.tx_extbase.features.rewrittenPropertyMapper = 1
```

- Use TYPO3 Flow documentation as a reference

[http://docs.typo3.org/flow/TYPO3FlowDocumentation/  
TheDefinitiveGuide/PartIII/PropertyMapping.html](http://docs.typo3.org/flow/TYPO3FlowDocumentation/TheDefinitiveGuide/PartIII/PropertyMapping.html)

# Extbase and Fluid

---

## Extbase – TYPO3\_MODE detection:

- New service class to determine if FE or BE context

```
\TYPO3\CMS\Extbase\Service\EnvironmentService
```

```
public function isEnvironmentInFrontendMode() {  
    return (defined('TYPO3_MODE') && TYPO3_MODE === 'FE') ? : FALSE;  
}
```

```
public function isEnvironmentInBackendMode() {  
    return (defined('TYPO3_MODE') && TYPO3_MODE === 'BE') ? : FALSE;  
}
```

# Extbase and Fluid

---

## Extbase – TYPO3\_MODE detection:

- New service class to determine if FE or BE context
- Usage example:

```
/**
 * @var \TYPO3\CMS\Extbase\Service\EnvironmentService
 */

protected $environmentService;

/**
 * @param \TYPO3\CMS\Extbase\Service\EnvironmentService $environmentService
 * @return void
 */

public function injectEnvironmentService(
    \TYPO3\CMS\Extbase\Service\EnvironmentService $environmentService) {

    $this->environmentService = $environmentService;
}

... if ($this->environmentService->isEnvironmentInFrontendMode()) { ... } ...
```

# Extbase and Fluid

---

## Extbase – FlashMessage Handling:

- FlashMessages can be added to a queue (before: set via a “container” only)
- Enable this feature with TypoScript

```
config.tx_extbase.enableLegacyFlashMessageHandling = 1
```

- Usage Example:

```
// set a FlashMessage
$this->controllerContext->getFlashMessageQueue()->addMessage(
    new \TYPO3\CMS\Core\Messaging\FlashMessage(
        $flashMessage, '', \TYPO3\CMS\Core\Messaging\FlashMessage::ERROR
    )
);

// read and empty queue
$this->controllerContext->getFlashMessageQueue()->getAllMessagesAndFlush();
```



# Extbase and Fluid

---

## Extbase – Performance:

- Performance increase in various areas
  - Deletion of page cache
  - Internal caching layer for `getTargetPidByPlugin`
  - Persistence of `ObjectStorages` optimised

# Extbase and Fluid

---

## Extbase – Property Mapper Validation:

- Object validation of Property Mapper reworked
  - Prevent storing invalid objects if validation fails
  - Modified objects have to be marked as such by executing the repository's `update()` function

```
{the domain objects repositories}->update({modified domain object})  
$this->blogRepository->update($blog);
```

- Side effect: performance boost

# Extbase and Fluid

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## Extbase – Miscellaneous:

- Single Table Inheritance (STI) for users/groups removed from default TYPOScript setup

To demonstrate STI in Extbase, `tx_extbase_type` was implemented for `fe_users` and `fe_groups`. Due to various problems, this has been removed again.

- **Deprecated:** `ObjectManager::create` (use `ObjectManager::get` instead)

# Extbase and Fluid

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## Fluid - Pagination ViewHelper:

- Pagination ViewHelper for use in the BE

```
<f:be.widget.paginate
  objects="{blogs}"
  as="paginatedBlogs"
  configuration="{
    itemsPerPage: 5, insertAbove: 1,
    insertBelow: 0, recordsLabel: 'MyRecords'}">

  /* use {paginatedBlogs} instead of {blogs}
     for example inside a <f:for> loop */

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

# Extbase and Fluid

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## Fluid – String Compare:

- Compare strings  
(e.g. with the if-ViewHelper, see example below)

```
<f:if condition="{foo} == 'bar'">  
    /* do something... */  
</f:fi>
```

# Extbase and Fluid

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## Fluid – Property Mapping Configuration:

- Property Mapping relies on a whitelist (trusted properties) now
- Extbase takes care of Fluid forms automatically (current level only, not nested objects)

```
\TYPO3\CMS\Extbase\Property\PropertyMappingConfiguration
```

```
/* Set all options for the given $typeConverter: */  
public setTypeConverterOptions($typeConverterClassName, array $options) { ... }
```

```
/* Allow a list of specific properties: */  
public allowProperties() { ... }
```

```
/* Allow all properties in property mapping, even unknown ones: */  
public allowAllProperties() { ... }
```

```
/* Allow all properties, but reject (blacklist) selected ones: */  
public allowAllPropertiesExcept() { ... }
```

# Extbase and Fluid

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## Fluid – Arrays in ViewHelper Arguments:

- Arrays are processed in ViewHelper arguments now

**This is a breaking change!**

- TYPO3 < 6.1:

```
<f:debug>{key1: 'value1', key2: 'value2'}</f:debug>
```

- TYPO3 >= 6.1:

```
<f:debug value="{key1: 'value1', key2: 'value2'}" />
```

# Extbase and Fluid

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## Fluid – Currency ViewHelper:

- Currency ViewHelper supports decimal points now

```
<f:format.currency
    currencySign="$" decimalSeparator="." thousandsSeparator=","
    prependCurrency="TRUE" separateCurrency="FALSE"
    decimals="2">1234.5678</f:format.currency>
```

Output: \$1,234.56



# Extbase and Fluid

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## Fluid – Access to File References:

- Access to file references works “on the fly” now, by creation of a FAL resource object

```
{myEntity.fileProperty.originalResource.title}
```

```
{myEntity.fileProperty.originalResource.properties.identifier}
```

# Chapter 5

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## Sources

# Sources

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- **TYP03 News**

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

- **Release Notes**

- <http://typo3.org/download/release-notes/typo3-6-1-release-notes/>
- [http://wiki.typo3.org/TYP03\\_6.1](http://wiki.typo3.org/TYP03_6.1)
- NEWS.txt

- **TYP03 GIT Repositories**

- <https://git.typo3.org/TYP03v4/Core.git>
- <https://git.typo3.org/TYP03v4/CoreProjects/MVC/extbase.git>
- <https://git.typo3.org/TYP03v4/CoreProjects/MVC/fluid.git>

# Sources

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- **TYP03 Bug-/Issuetracker**
  - <http://forge.typo3.org/projects/typo3v4-core/issues>
- **RequireJS and AMD**
  - <http://requirejs.org>
  - <https://github.com/amdjs/amdjs-api/wiki/AMD>
- **Further Extbase/Fluid documentation**
  - <http://docs.typo3.org/flow/TYP03FlowDocumentation/TheDefinitiveGuide/PartIII/PropertyMapping.html>
  - [http://forge.typo3.org/projects/typo3v4-mvc/wiki/28091\\_dirty\\_objectStorage\\_improvements](http://forge.typo3.org/projects/typo3v4-mvc/wiki/28091_dirty_objectStorage_improvements)
- **Download TYP03 CMS**
  - <http://typo3.org/download>

# TYP03 inspires people to share...

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During TYP03 CMS 6.1 development phase  
the 10.000th core merge was done!

Thanks to all contributors :-)

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# Thank You!

TYP03 inspires people to share

