cjw NETWORK

Developers united in eZ Publish

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Multiple Colors of Migration

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Presenters

- **Ekke** is a consultant with deep knowledge in eZ Publish 4 and 5, eZ Find / Apache Solr and with a faible for coming cutting edge web technologies. He is one of the organizers of the PHP Unconference since eight years.
- **Donat** is owner of Webmanufaktur, a full service web agency in Switzerland. He works as projects manager, software architect and developer and likes thinking outside of the box. In the last year he has been involved in major pure eZ 5 projects.
- Members of CJW Network

Multiple Colors of Migration

- There are still many (too much) eZ Publish legacy sites
- eZ Publish 5.4 / 2014.11 is supported until May 2019
- So there is a stable business base for the next 4 years
- And since one year in internet is seven years in real live, 28 years of best business!
- **Why waiting? OK, we try to help you with arguments and know how**
- https://github.com/cjw-network/cjw-summercamp-slides/blob/master/Multiple-Colors-of-Migration.pdf

Who is in the audience?

Let us know you better ...

- Who has realized eZ Publish 5 sites (productive)?
- Who has realized pure eZ Publish 5 sites (no legacy)?

Agenda

Things we would like to discuss:

- Reasons for not waiting any more
- Run legacy only
- Run eZ Publih 5 Symfony stack only
- Your fast (easy) way to pure TWIG Templates
- If there is time: Multi-Site/Multi-Repository Setup

Why waiting?

Pro and cons

What are the problems?

Still hard to start but we prepared a lot

- no starting point: a good eZ Publish version like 4.7 is missing -> cjwpublish1411
- https://github.com/cjw-network/cjwpublish1411
- many logic is in templates, everything new, everything different?
- no multi site / multi repository setup
- performance, performance, performance,

Why waiting?

Financial reasons - How to sell it to your customer?

- update / upgrade - but still no new feature for editors
- many security fixes - but often part of maintenance support
- Relaunch: Make responsive, look at http://getbootstrap.com or http://foundation.zurb.com/
- Relaunch: Mobile first, it is coming to marketing people
- new feature mobile editing
- Do you have one more?

Why waiting?

Technical reasons for starting now

- it is on the upgrade path to eZ Platform 6
- many security and bug fixes
- TWIG for new templates and fallback to old templates when needed
- easy to extend with Symfony bundles, there are more than 2500 on e.g. http://knpbundles.com/
- switch to responsive web design and make it mobile first

Which version to use?

We need a version as a stable base for the next 4 years

- eZ Publish 5.3 / 5.4 aka 2014.11 is supported until May 2019
- but many fixes are in the legacy bridge (-)
- but newer versions are pre alpha (+)
- but there is no real save version to switch (-)
- solution take our cjwpublish1411 and help to keep it fresh (+)

Run legacy only

Run legacy only

Short introduction

- if you only need the bug fixes and security patches in legacy
- our arguments won't convince you or your customer
- the installation has more than 150 extensions
- then link your requests into the legacy folder
- go the upgrade path https://doc.ez.no/display/EZP/Upgrade
- and read more https://doc.ez.no/display/EZP/Legacy+code+and+features
- but we advice you to go to "Run Symfony only"

Run Symfony only

Team up with a Symfony crack

- To be honest: as eZ 4 developers, we are complete novices in eZ 5
- It's easier for a Symfony crack to learn eZ than other way round
- Symfony community is hungry for a CMS, so watch out for new competition
- But @Symfony cracks: It's not easy: an eZ Publish and CMS expert will reduce your risk
- And will make your content architecture better and more maintainable
- **OR take the shortcut for integrators**

cjw

CjwPublishToolsBundle

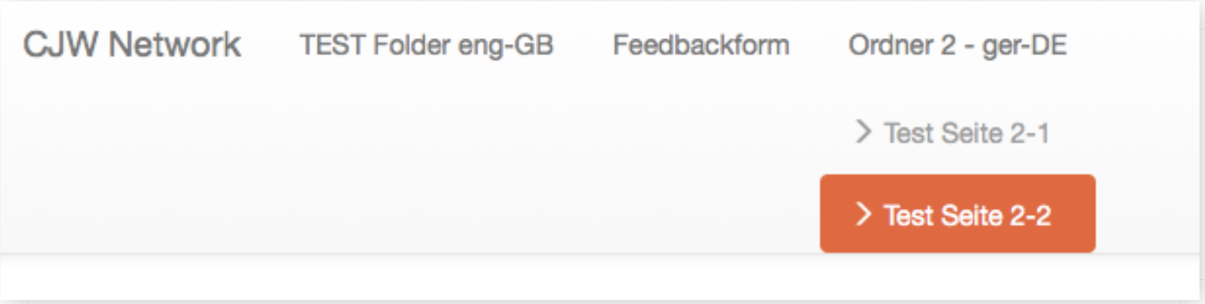
Your easy way to eZ Publish Symfony

CjwPublishToolsBundle

for integrators of small to medium sites

- He comes from front end design and speaks fluent HTML and CSS
- He has no problems with digging into template languages
- He prefers solutions with all needed functionality
- He wants to develop web sites fast and easy at low cost
- https://github.com/cjw-network/CjwPublishToolsBundle
- go with it:

Treemenu



CJW Network TEST Folder eng-GB Feedbackform Ordner 2 - ger-DE

> Test Seite 2-1

> Test Seite 2-2

TWIG

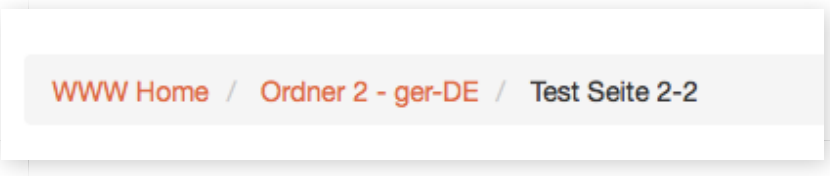
-
  ```
  {% set treemenu = cjw_treemenu( locationId, {
                        'depth': '2',
                        'offset': '1',
                        'include': [ 'cjw_article', 'cjw_folder', 'cjw_feedback_form' ],
                        'sortby': { 'LocationPriority': 'ASC' },
                        'datamap': false } ) %}
  ```

TWIG

-
  ```
  {% for item in treemenu %}
     {{ ez_content_name( item.node.contentInfo ) }}
  {% endfor %}
  ```

Breadcrumb

cjw_breadcrumb

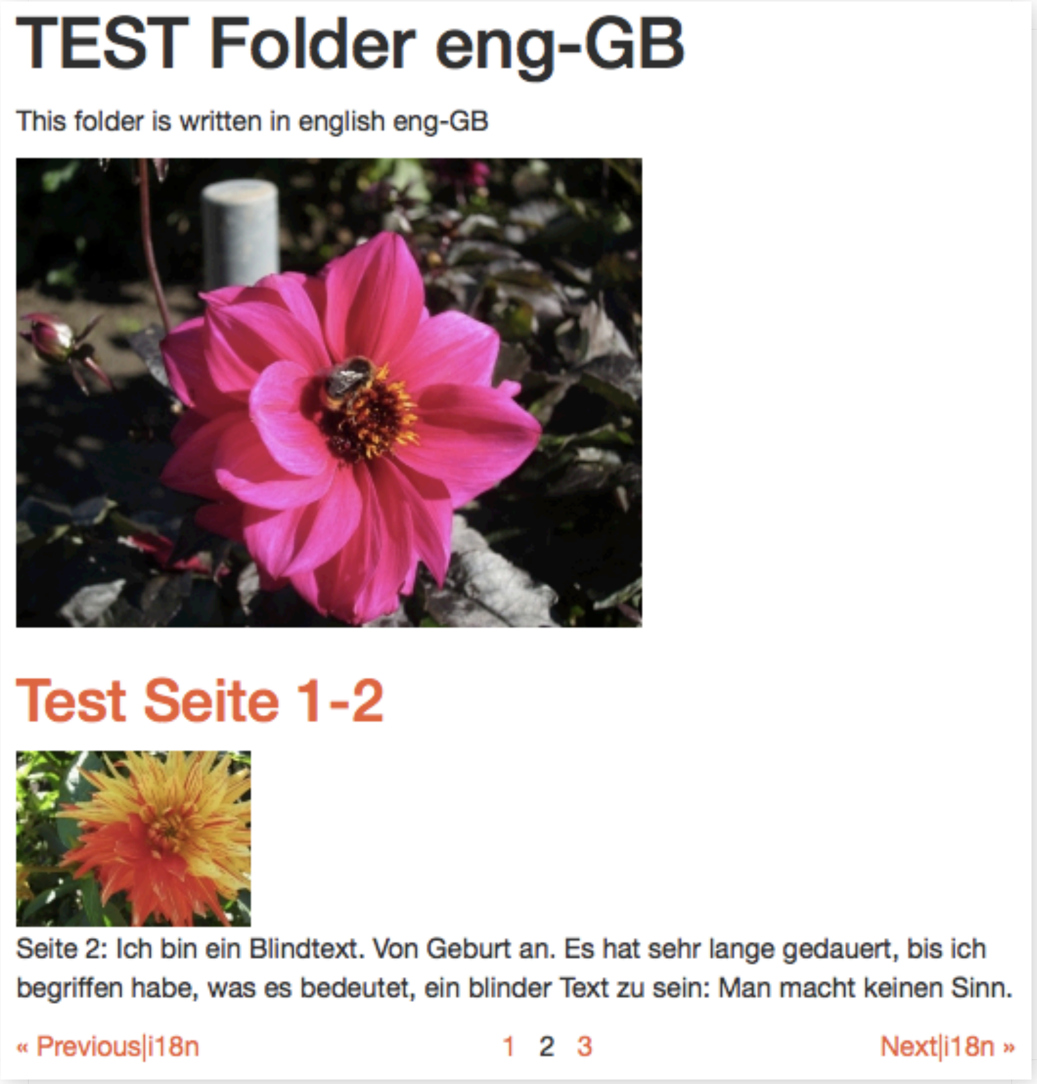


WWW Home / Ordner 2 - ger-DE / Test Seite 2-2

TWIG

```
{% set path = cjw_breadcrumb( locationId, { 'offset': '1',
                                          'rootName': 'Home',
                                          'separator': '' } ) %}
{% for item in path.items %}
       {{ item.name }}
{% endfor %}
```

Folder with line view screenshot



TEST Folder eng-GB

This folder is written in english eng-GB

Test Seite 1-2

Seite 2: Ich bin ein Blindtext. Von Geburt an. Es hat sehr lange gedauert, bis ich begriffen habe, was es bedeutet, ein blinder Text zu sein: Man macht keinen Sinn.

Folder with line view source code

cjw_fetch_content

TWIG

-
  ```twig
  {% set listChildren = cjw_fetch_content( [ location.id ], { 'depth': '1',
       'limit': listLimit,
       'offset': listOffset,
       'include': [ 'cjw_folder', 'cjw_article', 'cjw_folder_section', 'cjw_file'  ],
       'language': [],
       'datamap': false,
       'count': true } )[ location.id ] %}
  ```

TWIG

-
  ```twig

  {% for child in listChildren['children'] %}
      {#{{ render( controller( "ez_content:viewLocation",
                              {'location': child, 'viewType': 'line'} ) ) }}#}
      {{ cjw_render_location( {'location': child, 'viewType': 'line'} )  }}

  {% endfor %}
  ```

content fetch ezp 4.x smarty

TPL

-
  ```
  {def $node_id = 2
    $limit = 10
    $offset = 10
    $depth = 5
    $include = array( 'article' )
    $list_items = fetch( 'content', 'list', hash( 'parent_node_id', $node_id,
                                                  'depth', $depth,
                                                  'limit', $limit,
                                                  'offset', $offset,
                                                  'class_filter_type', 'include',
                                                  'class_filter_array', $include,
                                                  'sort_by', array( 'published', true() ) ) )
    $list_count = fetch( 'content', 'list_count', hash( 'parent_node_id', $node_id,
                                                        'depth': $depth,
                                                        'class_filter_type', 'include',
                                                        'class_filter_array', $include ) )
    $parent_node = fetch( 'content', 'node', hash( 'node_id', $node_id ) ) }
  ```

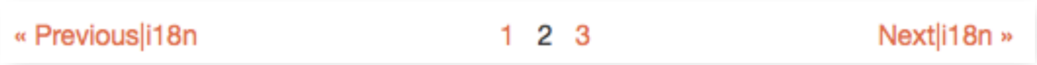
```
{foreach $list_items as $item}
    {$item|attribute( show, 5 )}
```

cjw_content_fetch ezp 5.x twig

TWIG

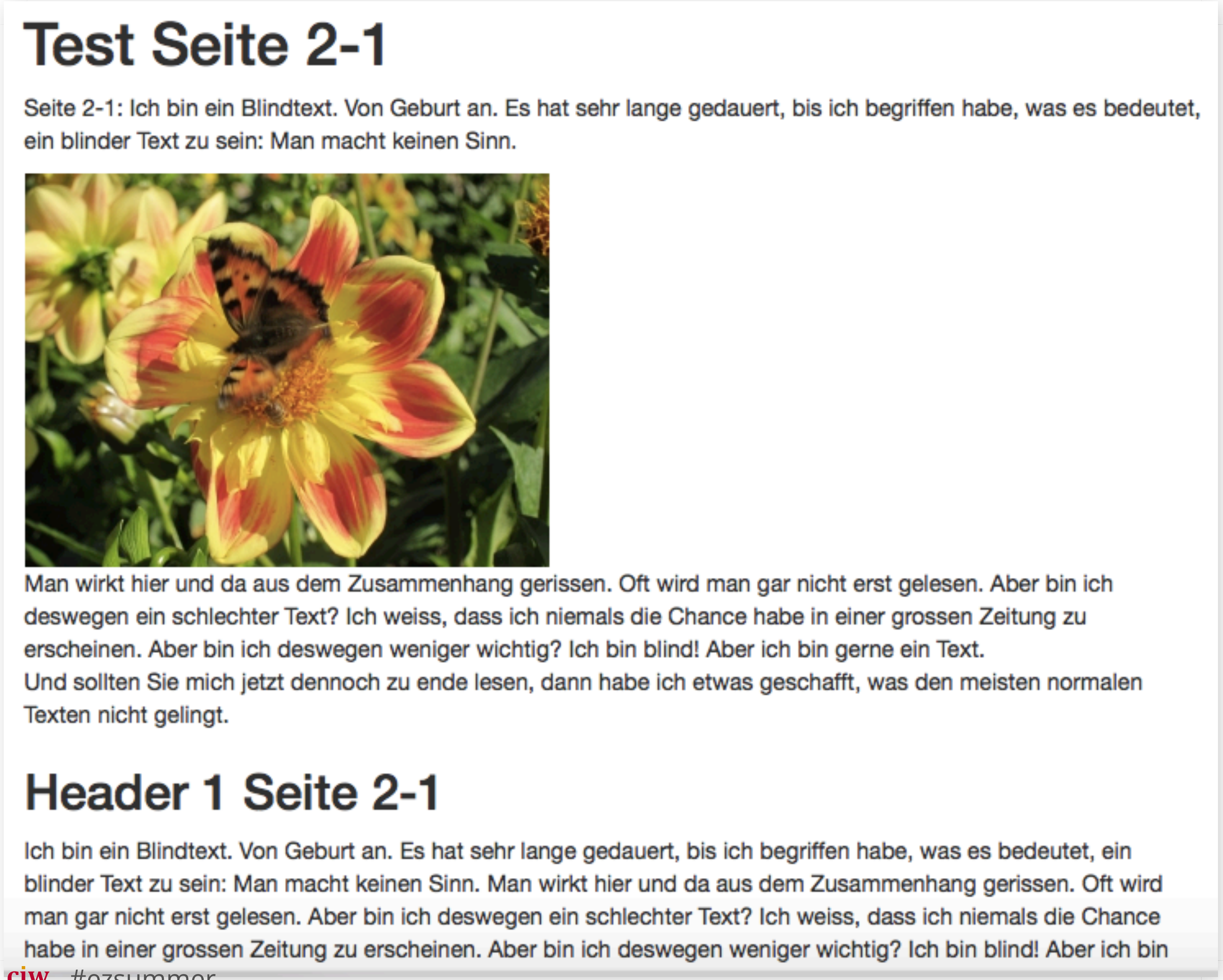
```
{% set location_id = 2 %}
{% set limit = 10 %}
{% set offset = 10 %}
{% set include = [ 'article' ] %}
{% set depth = 5 %}
{% set content_object = false %}
{% set list_items = cjw_fetch_content( [ location_id ], { 'depth': depth,
                                                          'limit': limit,
                                                          'offset': offset,
                                                          'include': include,
                                                          'sortby': [ [ 'DatePublished', 'DESC'
                                                          'parent': true,
                                                          'count': true } ) %}
{% set list_count = list_items[ location_id ][ 'count' ] %}
{% set parent_location = list_items[ location_id ][ 'parent' ] %}
{% for item in list_items[ location_id ][ 'children' ] %}
    {# show the location object, if you use the "'datamap': true" parameter, this will show the
    {{ dump( item ) }}
    {# example for getting the content object for this location, if needed #}
    {#
```

Pagination (was called Google navigator)


« Previous|i18n 1 2 3 Next|i18n »

- Twig Template
- https://github.com/cjw-network/CjwPublishToolsBundle/blob/master/Resources/views/parts/navigator.htm

Article full view screenshot



Test Seite 2-1

Seite 2-1: Ich bin ein Blindtext. Von Geburt an. Es hat sehr lange gedauert, bis ich begriffen habe, was es bedeutet, ein blinder Text zu sein: Man macht keinen Sinn.

Man wirkt hier und da aus dem Zusammenhang gerissen. Oft wird man gar nicht erst gelesen. Aber bin ich deswegen ein schlechter Text? Ich weiss, dass ich niemals die Chance habe in einer grossen Zeitung zu erscheinen. Aber bin ich deswegen weniger wichtig? Ich bin blind! Aber ich bin gerne ein Text.
Und sollten Sie mich jetzt dennoch zu ende lesen, dann habe ich etwas geschafft, was den meisten normalen Texten nicht gelingt.

Header 1 Seite 2-1

Ich bin ein Blindtext. Von Geburt an. Es hat sehr lange gedauert, bis ich begriffen habe, was es bedeutet, ein blinder Text zu sein: Man macht keinen Sinn. Man wirkt hier und da aus dem Zusammenhang gerissen. Oft wird man gar nicht erst gelesen. Aber bin ich deswegen ein schlechter Text? Ich weiss, dass ich niemals die Chance habe in einer grossen Zeitung zu erscheinen. Aber bin ich deswegen weniger wichtig? Ich bin blind! Aber ich bin

Article full view source code

TWIG

```
●  {% extends site_bundle_name ~ '::pagelayout.html.twig' %}
{% block content %}

    {% if content.fields.title is defined and not ez_is_field_empty( content, 'title' ) %}
        {{ ez_field_value( content, 'title' ) }}
    {% endif %}

    {% if content.fields.short_description is defined and not ez_is_field_empty( content, 'shor
        {{ ez_render_field( content, 'short_description' ) }}
    {% endif %}

    {% if content.fields.image is defined and not ez_is_field_empty( content, 'image' ) %}
        {{ ez_render_field( content, 'image',
                    {parameters: {alias: 'medium', class: 'imageleft'}} ) }}
    {% endif %}

{% endblock %}
```

title: Feedback Form (infocollector) I subtitle: what is it doing

- *cjw_feedback_form* with infocollector using CjwPublishToolsBundle eZP content type mapping to symfony form handling
- Symfony form validation and form rendering is used
- ez contenttype *cjw_feedback_form* with infocollector attributes will be render a symfony form which will store content into infocollector table and will send an email

Feedback Form (infocollector) II

Define custom formbuilder.yml which will be load for this project
src/Cjw/SiteCjwpublishBundle/app/config/parameters.yml

YAML

●

```yaml
parameters:
    # Filepath + -name for formbuilder Config, from EZROOT directory
    # => sitaccessaware config
    # set default config for all siteaccesses can be overitten by siteaccess
    # or siteaccessgroup if you need a separate formbuilderconfig
    cjw_publishtools.default.formbuilder.config_file:
    src/Cjw/SiteCjwpublishBundle/Resources/config/formbuilder.yml
```

Feedback Form (infocollector) III

example for defining an infocollector for of ezpublish content type / class 'cjw_feedback_form
src/Cjw/SiteCjwpublishBundle/Resources/config/formbuilder.yml

YAML

```
● formcollector_config:
parameters:
    button_config:
        save_button:
            label:  cjw_publishtools.formbuilder.default.button.send
        cancel_button: false
types:
    cjw_feedback_form:
        handler:
            infocollector:
            success:
                template: :form:success.html.twig
            sendmail:
                email_sender: test@test.com
                email_subject: 'Collected Information from cjwpublish.com'
```

Feedback form - template

- take the standard Symfony form(form) in TWIG template

TWIG

```
● {% extends site_bundle_name ~ '::pagelayout.html.twig' %}

{% block content %}

    {{ form(form) }}

{% endblock %}
```

formbuilder

- forms can be defined in a yaml file or as a content class with infocollector fields
- stackable handler: send email, add to infocollector (needs orm), success
- forms defined via content classes can use the eZ Publish build in template override mechanism
- easy to use frontend editing (add and edit content)
- easy to use user register
- **hacking php classes is not needed**

Frontend editing Edit User - configuration

- src/Cjw/SiteCjwpublishBundle/Resources/config/formbuilder.yml

YAML

```yaml
frontendediting_config:
    parameters:
        template: :edit.html.twig
    handler:
        success:
            handler_class: successHandler
            template: ':email:user_register.html.twig'
    types:
        cjw_user:
            parameters:
                template: :user:edit.html.twig
            handler:
            fields:
                - first_name
                - last_name
                - user_account
```

Frontend editing Edit User - template

- take the standard Symfony form(form) in TWIG template

TWIG

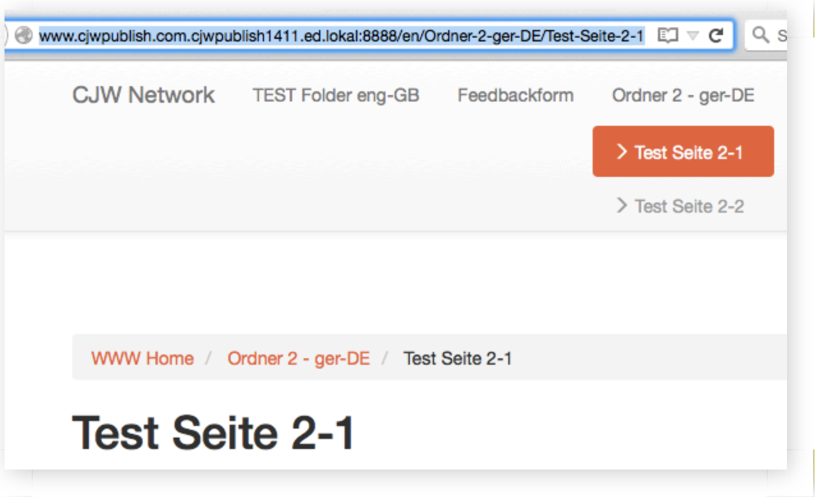
```
● {% extends site_bundle_name ~ '::pagelayout.html.twig' %}

{% block content %}

    {{ form(form) }}

{% endblock %}
```

A short walk through to Multi language



www.cjwpublish.com.cjwpublish1411.ed.lokal:8888/en/Ordner-2-ger-DE/Test-Seite-2-1
CJW Network
TEST Folder eng-GB
Feedbackform
Ordner 2 - ger-DE
Test Seite 2-1
Test Seite 2-2
WWW Home / Ordner 2 - ger-DE / Test Seite 2-1

Test Seite 2-1

- http://www.cjwpublish.com/ => en
- http://www.cjwpublish.com/en
- http://www.cjwpublish.com/de
- http://www.cjwpublish.com/admin_en or http://www.cjwpublish.com/admin_de

A short walk through to multi language

Using the translation system.

- translations for static strings => formbuilder uses the trans system from symfony
- src/Cjw/PublishToolsBundle/Resources/translations/messages.de.yml *Deutsch*
- src/Cjw/PublishToolsBundle/Resources/translations/messages.en.yml *English*

A short walk through to multi language

How to translate strings using the messages file.

- ../Resources/translations/messages.de.yml

YAML

```yaml
cjw_publishtools.formbuilder.user.email: 'Die E-Mail-Adresse'
```

- ../Resources/translations/messages.en.yml

YAML

```yaml
cjw_publishtools.formbuilder.user.email: 'E-Mail-Address'
```

- TWIG template

TWIG

```twig
{{ 'cjw_publishtools.formbuilder.user.email'|trans }}
```

Performance

cjw_render_location vs. subcontroller calls

- e.g. *render(controller(...* calls in twig => every subcontroller call costs a lot of time between 30 - 100 ms so for a loop with 10 line view you can often save **1 second** ! if you use a normal template include or our
- *cjw_render_location twig* function which uses the override system from ez like the render(controller("ez_content:viewLocation", {'location': child, 'viewType': 'line'} uses
- *avoid stash calls* if you can e.g. to give the location or content as an parameter in stead of the location id

Multi-Site/Multi-Repository Setup

Why a Multi-Site/Multi-Repository Setup?

- At CJW Network we have developed a multi-site/multi-repository setup for eZ Publish 4 several years ago
- This allows us to host many individual sites on a single eZ Publish installation

Advantages:

- Central site administration (site activation, cronjobs, ...)
- Easy deployment (update site extension with Subversion)
- Highly reduced maintenance costs (security patches, upgrades)
- Highly efficient use of hardware resources

Disadvantages:

- Some Kernel patches needed

Multi-Site/Multi-Repository Setup in eZ 5

First Approach 2014 (proven in production and depreciated)

- *Use different ezpublish app directories to host the different sites*

Second approach 2015 (proven in production)

- Use `CJW MultiSiteBundle`
- https://github.com/cjw-network/cjwpublish1411/tree/master/src/Cjw/MultiSiteBundle

CJW MultiSiteBundle Features

- Boots kernel and environment based on domain name mappings
- Handles local, staging and live domain names
- Allows for global activation of bundles
- Allows for global settings
- Provides a common console for all sites
- Caches domain name mappings
- Moves cache and log files away from the ezpublish folder
- more to come ...

Directory structure

The name of the project is `cjwpublish`.

- Bundle: *src/Cjw/CjwSiteCjwpublishBundle*
- ProjectName: *cjwpublish*
- VarFolder: *ezpublish_legacy/var/cjwpublish*
- CacheFolder: *ezpublish_legacy/var_cache/cjwpublish*
- LogFolder: *ezpublish_legacy/var_log/cjwpublish*

Prod and Dev Environment -> Prod

Access to english/german frontend and backend siteaccesses

Production:

```
http://www.cjwpublish.com/    => en
http://www.cjwpublish.com/en
http://www.cjwpublish.com/de

http://www.cjwpublish.com/admin_en
http://www.cjwpublish.com/admin_de
```

Prod and Dev Environment -> Dev

- Development: MatchingRule matching begins with *www.cjwpublish.com./*de* is matching de german siteaccess
- so every developer can be access if the dev computer can be access by default local dns entry
- e.g. *.fw.lokal and if the vhost matches all* .cjwpublish1411.*
- the following url can be accessed

  http://www.cjwpublish.com.cjwpublish1411dev.fw.lokal/ => en
  http://www.cjwpublish.com.cjwpublish1411dev.fw.lokal/en
  http://www.cjwpublish.com.cjwpublish1411dev.fw.lokal/de

  http://www.cjwpublish.com.cjwpublish1411dev.fw.lokal/admin_en
  http://www.cjwpublish.com.cjwpublish1411dev.fw.lokal/admin_de

Access to multisite ezpublish console

is the same as php ezpublish/console but only for multitsitesetup to call the kernel from src/Cjw/CjwSiteCjwpublishBundle

BASH

```bash
● php cjwpublish/console-cjwpublish

php cjwpublish/console-$ProjectName
```

de / en siteaccess host/uri matching I

YAML

- *# src/Cjw/SiteCjwpublishBundle/Resources/config/site.yml*

```yaml
ezpublish:
    siteaccess:
        # cjwpublish_user__en
        default_siteaccess: %cjwsite.name.project%_user__en
        list:
            - %cjwsite.name.project%_user__en
            - %cjwsite.name.project%_user__de
            - %cjwsite.name.project%_admin__en
            - %cjwsite.name.project%_admin__de
        groups:
            %cjwsite.name.project%_user_group:
                - %cjwsite.name.project%_user__en
                - %cjwsite.name.project%_user__de
            %cjwsite.name.project%_admin_group:
                - %cjwsite.name.project%_admin__en
                - %cjwsite.name.project%_admin__de
```

de / en siteaccess host/uri matching II

YAML

```
● # src/Cjw/SiteCjwpublishBundle/Resources/config/site.yml
# https://doc.ez.no/display/EZP/Siteaccess+Matching
match:
    # www.cjwpublish.com.cjwpublish1411.fw.lokal \Cjw\MultiSiteBundle\Matcher\MapHost: => begi
    # www.cjwpublish.com.cjwpublish1411.fw.lokal/de/ => www.cjwpublish.com/de => siteaccess: c
    # www.cjwpublish.com.cjwpublish1411.fw.lokal/ => www.cjwpublish.com/en/(default) => defaul
    \Cjw\MultiSiteBundle\Matcher\MapHostURI:
        www.cjwpublish.com/en/(default): %cjwsite.name.project%_user__en
        www.cjwpublish.com/de: %cjwsite.name.project%_user__de
        www.cjwpublish.com/admin_en: %cjwsite.name.project%_admin__en
        www.cjwpublish.com/admin_de: %cjwsite.name.project%_admin__de
        cjwpublish.com/en/(default): %cjwsite.name.project%_user__en
        cjwpublish.com/de: %cjwsite.name.project%_user__de
        cjwpublish.com/admin_en: %cjwsite.name.project%_admin__en
        cjwpublish.com/admin_de: %cjwsite.name.project%_admin__de
```

Ressources

Slides as PDF

- https://github.com/cjw-network/cjw-summercamp-slides/blob/master/Multiple-Colors-of-Migration.pdf

Slides (Source)

- https://github.com/cjw-network/cjw-summercamp-slides

CJW MultiSiteBundle

- https://github.com/cjw-network/cjwpublish1411/tree/master/src/Cjw/MultiSiteBundle

CJW Publish for quick start *https://github.com/cjw-network/cjwpublish1411*
info@cjw-network.com

- https://joind.in/15118

http://events.netgen.io/

Please Vote!

<Thank You!>

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http://www.coolscreen.de

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http://www.webmanufaktur.ch