

Best Practice: Joomla Templating

Hans Kuijpers



TIP 1 - de basis

Begin met een basis

- via Joomla.org meest recente versie downloaden
- installeren op hostingomgeving
- handige extensies downloaden en installeren
- tof template downloaden en installeren
- standaard instellingen wijzigen
- accounts aanmaken

Begin met een basis

- via Joomla.org meest recente versie downloaden
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- handige extensies downloaden en installeren
- tof template downloaden en installeren
- standaard instellingen wijzigen
- accounts aanmaken
- een boel tijd verloren
- en nu pas aan de slag

Begin met een goede basis

- Heb ergens een basis Joomla! site staan
- Rol die uit op je lokale ontwikkelomgeving
- En ga aan de slag

Eenmalig eigen basis opzetten

- Investeer eenmalig tijd in een goede basis
- Gebruik als kickstart voor ieder template-project
- Beheer basis via bijvoorbeeld een github-repo
- Maak bibliotheek van overrides, JavaScript, SCSS

A screenshot of a web browser window titled "Home - Perfect Site". The address bar shows "perfect-site.local/". The browser interface includes standard icons for back, forward, search, and refresh. A toolbar at the top right contains various icons for file operations like copy, paste, and save.

The main content area displays a Joomla! site with the following structure:

- Top navigation menu:
 - Home
 - Blog
 - Menu heading
 - Menu URL
 - Menu separator
 - Alias
- Section "Home":

Home
Lore ipsum
- Section "HTML Ipsum Presents":

HTML Ipsum Presents

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo. Quisque sit amet est et sapien ullamcorper pharetra. Vestibulum erat wisi, condimentum sed, commodo vitae, ornare sit amet, wisi. Aenean fermentum, elit eget tincidunt condimentum, eros ipsum rutrum orci, sagittis tempus lacus enim ac dui. [Donec non enim](#) in turpis pulvinar facilisis. Ut felis.
- Section "Header Level 2":

Header Level 2

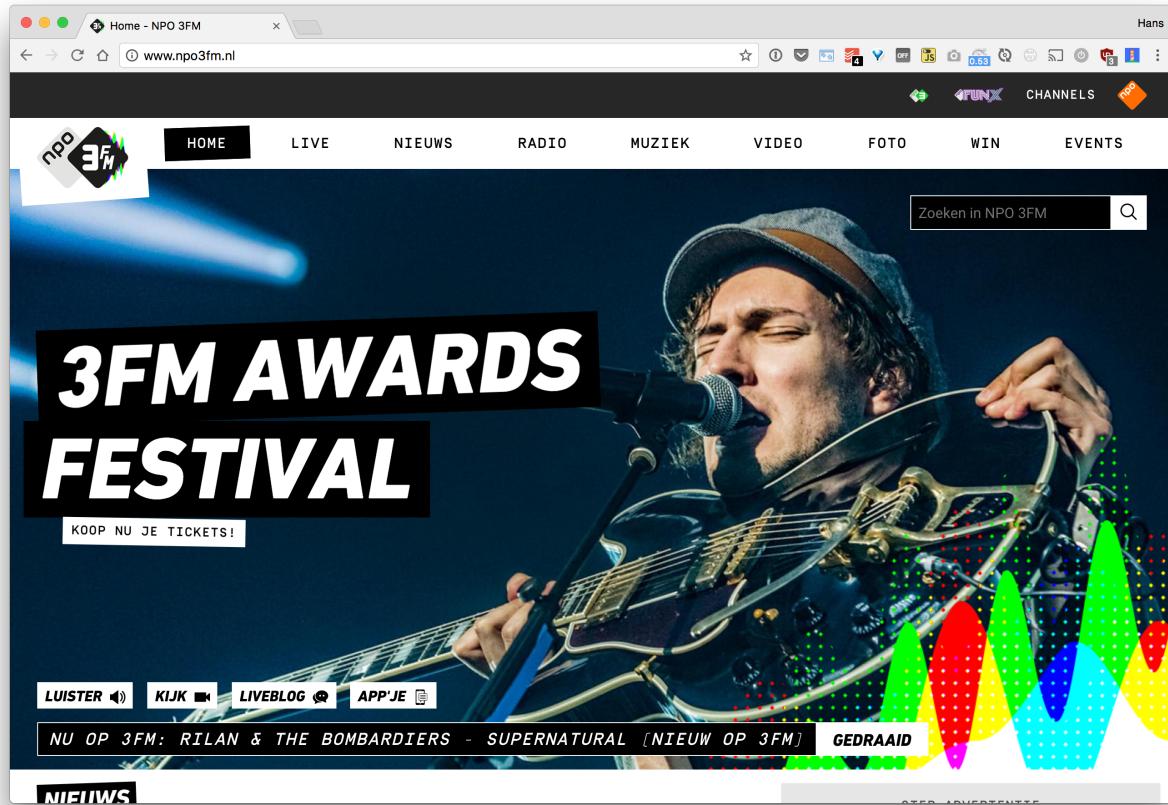
 1. Lorem ipsum dolor sit amet, consectetur adipiscing elit.
 2. Aliquam tincidunt mauris eu risus.

Text:
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vivamus magna. Cras in mi at felis aliquet congue. Ut a est eget ligula molestie gravida. Curabitur massa.
Donec eleifend, libero at sagittis mollis, tellus est malesuada tellus, at luctus turpis elit sit amet quam. Vivamus pretium ornare est.
- Section "Header Level 3":

Header Level 3

 - Lorem ipsum dolor sit amet, consectetur adipiscing elit.
 - Aliquam tincidunt mauris eu risus.

```
#header h1 a {
    display: block;
    width: 300px;
```



Best Practise: Joomla! templating - Hans Kuijpers - Joomla!dagen 2017 - 8 of 56

The screenshot shows a GitHub repository page for 'perfectwebteam/perfect-site'. The repository is private, has 152 commits, 5 branches, 3 releases, and 5 contributors. The latest commit was made a day ago by user 'hans2103'. The repository contains files like assets, config, public_html, .gitignore, .htaccess, README.md, bower.json, configuration.php.dist, gruntfile.js, htaccess.perfect.txt, package.json, and README.md.

perfectwebteam / perfect-site Private

Watch 1 Star 0 Fork 0

Issues 5 Pull requests 0 Projects 0 Wiki Pulse Graphs

The Perfect (Web Team) Site as start for new projects

152 commits 5 branches 3 releases 5 contributors

Branch: master New pull request Create new file Upload files Find file Clone or download

hans2103 Refactor self::template to self::template()

	Latest commit 2b01251 a day ago
assets	Merge branch 'master' of https://github.com/perfectwebteam/perfect-site
config	Merge branch 'master' of github.com:perfectwebteam/perfect-site
public_html	Refactor self::template to self::template()
.gitignore	Update README and adding tmp and logs folders
.htaccess	#4 opslitsing van Gruntfile naar separate config items.
README.md	Improvements
bower.json	replace bower normalize-scss with node-normalise-scss and load via npm
configuration.php.dist	Improvements
gruntfile.js	Merge branch 'master' of github.com:perfectwebteam/perfect-site
htaccess.perfect.txt	Improvements
package.json	replace bower normalize-scss with node-normalise-scss and load via npm
README.md	

TIP 2 - automatiseer waar mogelijk

Building tools

- Zoveel mogelijk stappen automatiseren
- Snel en eenvoudig
- Performance verbeteren
- Fouten minimaliseren

Welke taken?

- LESS of SASS compileren naar CSS
- SASS source map aanmaken
- JavaScript samenvoegen
- CSS of JavaScript minifyen
- Git commits, pushen en pullen
- Afbeeldingen comprimeren
- Bestanden kopieren

Welke taken?

- LESS of SASS compileren naar CSS
- SASS source map aanmaken
- JavaScript samenvoegen
- CSS of JavaScript minifyen
- Git commits, pushen en pullen
- Afbeeldingen comprimeren
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Bijvoorbeeld met Grunt

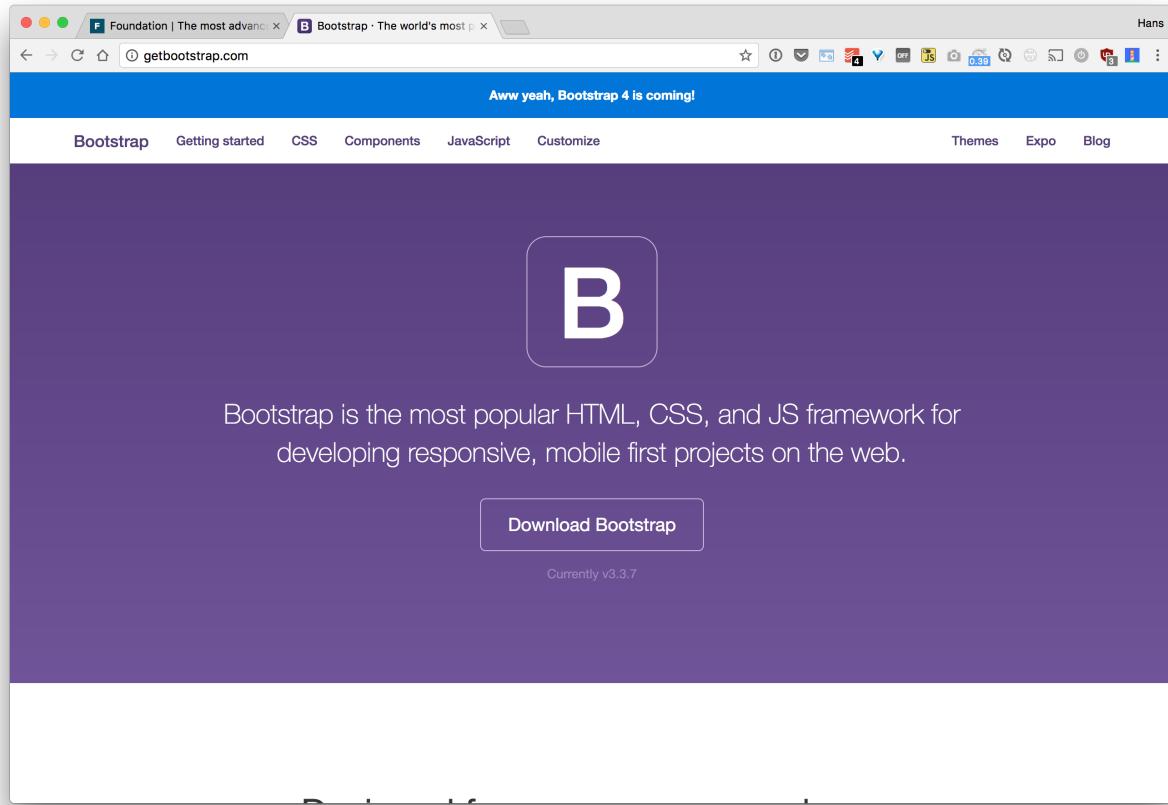
Grunt task sass compilatie

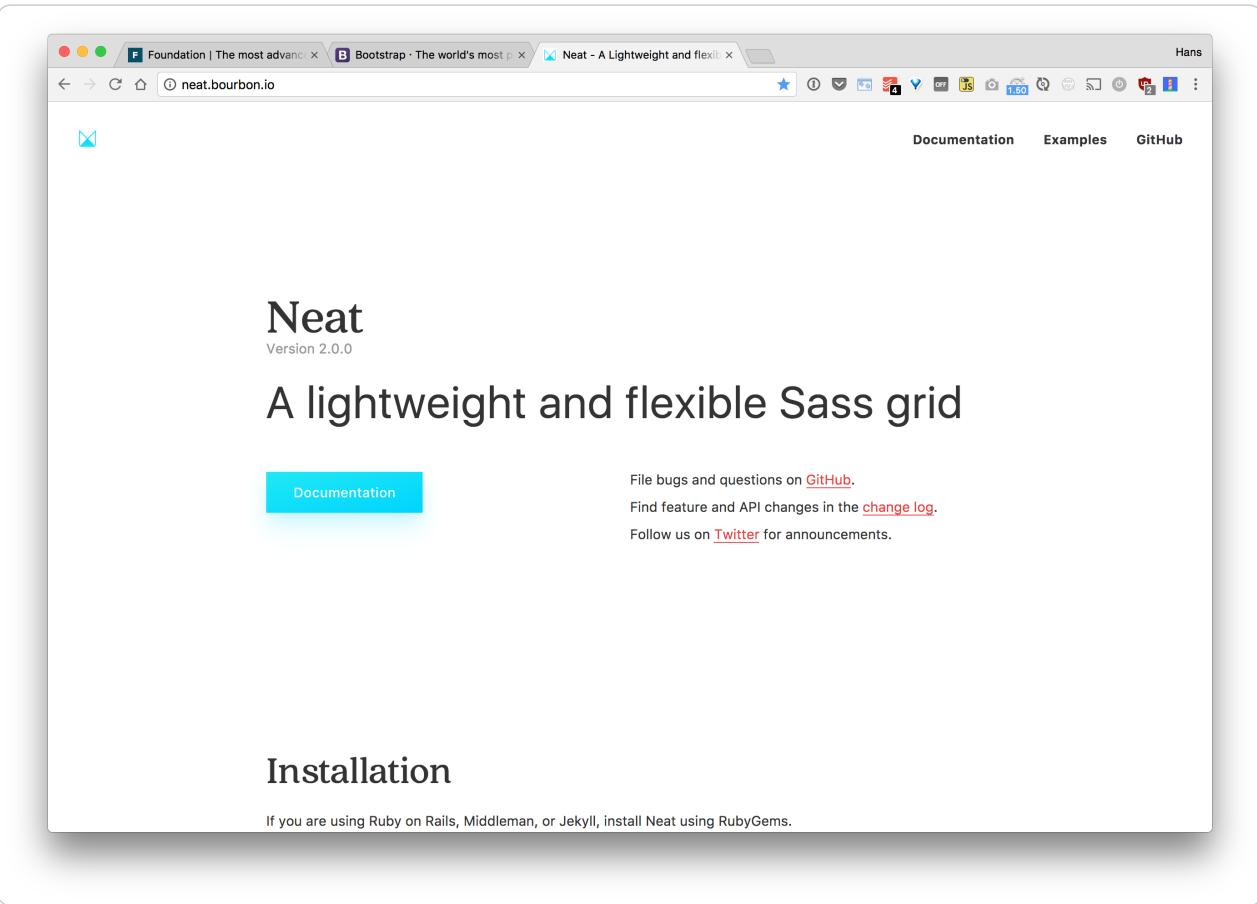
SCSS => CSS

```
'use strict';

//  
module.exports = {  
    dist: {  
        options: {  
            includePaths: [  
                require("bourbon").includePaths,  
                require("bourbon-neat").includePaths,  
                require("node-normalize-scss").includePaths  
            ]  
        },  
        files: {  
            '<%= paths.template %>/css/style.css': '<%= paths.assets %>/scss/style.scss',  
            '<%= paths.template %>/css/grid.css': '<%= paths.assets %>/scss/grid.scss',  
            '<%= paths.template %>/css/font.css': '<%= paths.assets %>/scss/font.scss'  
        }  
    }  
};
```

TIP 3 - SCSS mixins for the win







CSS

style.css

0 bytes

CONTACT

**Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam in lorem odio.
 Mauris pharetra eget dolor ut tempus. Sed aliquam ante lectus, eu mattis neque
 pellentesque id.**



The screenshot shows a web browser window with the title "Contact - Custom Management". The address bar indicates the URL is "custommanagement.dev/contact". The page content is titled "CONTACT" in large, bold letters. Below the title is a paragraph of placeholder text: "Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam in lorem odio. Mauris pharetra eget dolor ut tempus. Sed aliquam ante lectus, eu mattis neque pellentesque id." The browser's developer tools are open, showing the DOM tree and the right-hand panel displaying the CSS styles for the selected element. The selected element is a section with the class "section section_heading section_heading--light". The CSS rules shown include a background image from "http://custommanagement.dev/images/gold_pattern-600x400.jpg" and a height of 9rem.

```
<!DOCTYPE html>
<html lang="nl-nl" dir="ltr" style="zoom: 1;">
  <head>...</head>
  <body class="option-com-content view-article no-layout no-task itemid-120 path-contact home-0" style="zoom: 1;">
    <div class="navigation">...</div>
    <div class="section_breadcrumbs">...</div>
    <div class="main" role="main">
      <section class="section section_heading section_heading--light" style="background-image:url('http://custommanagement.dev/images/gold_pattern-600x400.jpg');"> == $0
        &:before
        &:after
      </section>
      <section class="section section_intro-contact">...</section>
    </div>

```

Styles >>

```
:hover .cls + element.style { background-image: url(http://600x400.); }
```

```
.style.css:1 section_heading--light { min-height: 9rem; display: -
```

section/_heading.scss

```
.section {  
    @include e('heading') {  
        @include m('light') {  
            @include heading($quarter-spanish-white);  
        }  
  
        @include m('white') {  
            @include heading(white);  
        }  
  
        @include m('image') {  
            @include heading--clipart;  
        }  
    }  
}
```

@include heading -> mixin heading

```
@mixin heading($bgcolor: white) {  
  @include heading--base;  
  @include arrow-bottom(2.5em, 50, transparent, $bgcolor);  
}  
  
@mixin heading--clipart {  
  @include heading--base;  
  @include arrow-bottom-clipart(50);  
}
```

@include arrow-button -> mixin arrow-button

Met css als resultaat

- SCSS -> CSS
- vendorprefix
- minified

TIP 4 - de templateHelper

Template - Protostar

```
126: <!DOCTYPE html>
127: <html lang=<?php echo $this->language; ?>" dir=<?php echo $this->direction; ?>">
128: <head>
129:   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
130:   <jdoc:include type="head" />
131: </head>
132: <body class="site <?php echo $option
133:   . ' view-' . $view
134:   . ($layout ? ' layout-' . $layout : ' no-layout')
135:   . ($task ? ' task-' . $task : ' no-task')
136:   . ($itemid ? ' itemid-' . $itemid : '')
137:   . ($params->get('fluidContainer') ? ' fluid' : '');
138:   echo ($this->direction === 'rtl' ? ' rtl' : '');
139:>">
```

Template - Protostar

```
126: <!DOCTYPE html>
127: <html lang=<?php echo $this->language; ?>" dir=<?php echo $this->direction; ?>">
128: <head>
129:   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
130:   <jdoc:include type="head" />
131: </head>
132: <body class="site <?php echo $option
133:   . ' view-' . $view
134:   . ($layout ? ' layout-' . $layout : ' no-layout')
135:   . ($task ? ' task-' . $task : ' no-task')
136:   . ($itemid ? ' itemid-' . $itemid : '')
137:   . ($params->get('fluidContainer') ? ' fluid' : '');
138:   echo ($this->direction === 'rtl' ? ' rtl' : '');
139:>">
```

Pas op regel 126 begint de HTML pagina.

Daarvoor alleen maar PHP functies

Nadelen

- foutgevoelig
- geen overzicht
- moeilijk herbruikbaar in overrides

Nadelen

- foutgevoelig
- geen overzicht
- moeilijk herbruikbaar in overrides

Conflicten gegarandeerd!

(en dus debug-uren)

Template - PerfectTemplate

```
24: <!DOCTYPE html>
25: <html class="html no-js" lang=<?php echo $this->language; ?>" dir=<?php echo $this->directi
on; ?>">
26: <head>
27:     <jdoc:include type="head"/>
28:     <noscript>
29:         <link href=<?php echo $this->baseurl; ?>/templates/<?php echo $this->template; ?>/cs
s/font.css" rel="stylesheet" type="text/css"/>
30:     </noscript>
31: </head>
32: <body class=<?php echo PWTTemplateHelper::getBodySuffix(); ?>">
33: <?php echo PWTTemplateHelper::getAnalytics(2, 'GTM-XXXXXX')['script']; ?>
```

Template - PerfectTemplate

```
24: <!DOCTYPE html>
25: <html class="html no-js" lang=<?php echo $this->language; ?>" dir=<?php echo $this->directi
on; ?>">
26: <head>
27:     <jdoc:include type="head"/>
28:     <noscript>
29:         <link href=<?php echo $this->baseurl; ?>/templates/<?php echo $this->template; ?>/cs
s/font.css" rel="stylesheet" type="text/css"/>
30:     </noscript>
31: </head>
32: <body class=<?php echo PWTTemplateHelper::getBodySuffix(); ?>">
33: <?php echo PWTTemplateHelper::getAnalytics(2, 'GTM-XXXXXX')['script']; ?>
```

100 regels eerder begint de HTML pagina

De PHP functies zijn verplaatst

De eerste 25 regels code

```
<?php
/*
 * @package    perfecttemplate
 * @copyright Copyright (c) Perfect Web Team / perfectwebteam.nl
 * @license    GNU General Public License version 3 or later
 */

// No direct access.
defined('_JEXEC') or die;

// Load Perfect Template Helper
require_once JPATH_THEMES . '/' . $this->template . '/helper.php';
require_once JPATH_THEMES . '/' . $this->template . '/html/layouts/render.php';

PWTTemplateHelper::setMetadata();
PWTTemplateHelper::setFavicon();
PWTTemplateHelper::unloadCss();
PWTTemplateHelper::unloadJs();
PWTTemplateHelper::loadCss();
PWTTemplateHelper::loadJs();
PWTTemplateHelper::localStorageFont();
PWTTemplateHelper::ajaxSVG();
?>
```

Bij fouten makkelijk uit te schakelen

```
<?php
/*
 * @package    perfecttemplate
 * @copyright  Copyright (c) Perfect Web Team / perfectwebteam.nl
 * @license    GNU General Public License version 3 or later
 */

// No direct access.
defined('_JEXEC') or die;

// Load Perfect Template Helper
require_once JPATH_THEMES . '/' . $this->template . '/helper.php';
require_once JPATH_THEMES . '/' . $this->template . '/html/layouts/render.php';

PWTTemplateHelper::setMetadata();
PWTTemplateHelper::setFavicon();
//PWTTemplateHelper::unloadCss();
//PWTTemplateHelper::unloadJs();
//PWTTemplateHelper::loadCss();
//PWTTemplateHelper::loadJs();
//PWTTemplateHelper::localStorageFont();
//PWTTemplateHelper::ajaxSVG();
?>
```

Helper.php - snippet

```
class PWTTemplateHelper
{
    static public function template()
    {
        return JFactory::getApplication()->getTemplate();
    }

    static public function loadCss()
    {
        JFactory::getDocument()->addStyleSheet('templates/' . self::template() .
'/css/style.css');
    }
}
```

Helper.php - snippet

```
class PWTTemplateHelper
{
    static public function template()
    {
        return JFactory::getApplication()->getTemplate();
    }

    static public function loadCss()
    {
        JFactory::getDocument()->addStyleSheet('templates/' . self::template() .
'/css/style.css');
    }
}
```

Resulteert in

```
<link href="/templates/perfecttemplate/css/style.css" rel="stylesheet" type="text/css" />
```

Body classes die de weg wijzen

```
class PWTTemplateHelper
{
    static public function getBodySuffix()
    {
        $classes = array();
        $classes[] = 'option-' . self::getPageOption();
        $classes[] = 'view-' . self::getPageView();
        $classes[] = self::getPageLayout() ? 'layout-' . self::getPageLayout() : 'no-layout';
        $classes[] = self::getPageTask() ? 'task-' . self::getPageTask() : 'no-task';
        $classes[] = 'itemid-' . self::getItemId();
        $classes[] = self::getPageClass();
        $classes[] = self::isHome() ? 'path-home' : 'path-' . implode('-', self::getPath('array'));
        $classes[] = 'home-' . (int) self::isHome();

        return implode(' ', $classes);
    }
}
```

Body classes die de weg wijzen

```
class PWTTemplateHelper
{
    static public function getBodySuffix()
    {
        $classes = array();
        $classes[] = 'option-' . self::getPageOption();
        $classes[] = 'view-' . self::getPageView();
        $classes[] = self::getPageLayout() ? 'layout-' . self::getPageLayout() : 'no-layout';
        $classes[] = self::getPageTask() ? 'task-' . self::getPageTask() : 'no-task';
        $classes[] = 'itemid-' . self::getItemId();
        $classes[] = self::getPageClass();
        $classes[] = self::isHome() ? 'path-home' : 'path-' . implode('-', self::getPath('array'));
        $classes[] = 'home-' . (int) self::isHome();

        return implode(' ', $classes);
    }
}
```

Resulteert in

```
<body class="option-com-content view-category layout-blog no-task itemid-130 path-nieuws home-0">
```

Eigen Meta data toevoegen

- functies aanmaken in helper.php
- functies oproepen in index.php
- frontend verversen en bekijk het resultaat

Eigen Meta data toevoegen

helper.php

```
class PWTTemplateHelper
{
    static public function setGenerator($generator)
    {
        JFactory::getDocument()->setGenerator($generator);
    }

    static public function setMetadata()
    {
        $doc      = JFactory::getDocument();

        $doc->setCharset('utf8');
        $doc->setMetaData('X-UA-Compatible', 'IE=edge', true);
        $doc->setMetaData('viewport', 'width=device-width, initial-scale=1.0');
    }

    static public function getSitename()
    {
        return JFactory::getConfig()->get('sitename');
    }
}
```

Eigen Meta data toevoegen

index.php

```
// Load Perfect Template Helper
require_once JPATH_THEMES . '/' . $this->template . '/helper.php';

PWTTemplateHelper::setMetadata();
PWTTemplateHelper::setGenerator(PWTTemplateHelper::getSitename());
```

Eigen Meta data toevoegen

het resultaat

```
<meta http-equiv="content-type" content="text/html; charset=utf-8" />
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<meta name="generator" content="Custom Management" />
```

Eigen Meta data toevoegen

het resultaat

```
<meta http-equiv="content-type" content="text/html; charset=utf-8" />
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<meta name="generator" content="Custom Management" />
```

Controle over de head

TIP 5 - gebruik JLayout(s)

JLayout?, nog even herhalen aub.

- manier om (klein stukje) weergave op te bouwen
- enkel layout bestand met specifieke output
- data variabel meestellen
- zit in `layouts/joomla`

Voordelen gebruik JLayout

- herbruikbaar door gehele site (template en extensies)
- aanpassingen één keer doorvoeren in plaats op diverse plekken
- niet langer copy/pasten van code in template overrides

Voordelen gebruik JLayout

- herbruikbaar door gehele site (template en extensies)
- aanpassingen één keer doorvoeren in plaats op diverse plekken
- niet langer copy/pasten van code in template overrides
- **herbruikbaar in verschillende projecten**

Eigen JLayouts functie

- `html/layouts/render.php`

```
class JLayouts
{
    public static function render($type, $data = '')
    {
        $template = JFactory::getApplication()->getTemplate();
        $jlayout  = new JLayoutFile($type, JPATH_THEMES . '/' . $template . '/html/layouts/template');
        return $jlayout->render($data);
    }
}
```

Eigen JLayouts functie

- `html/layouts/render.php`

```
class Jlayouts
{
    public static function render($type, $data = '')
    {
        $template = JFactory::getApplication()->getTemplate();
        $jlayout  = new JLayoutFile($type, JPATH_THEMES . '/' . $template . '/html/layouts/template');
        return $jlayout->render($data);
    }
}
```

Zorgt er voor dat eigen JLayouts vanuit `html/layouts/template/` opgeroepen kunnen worden.

Eigen JLayouts voor datum notatie

toegepast in `html/categories/blog_item.php`

```
if ($params->get('show_publish_date')) :  
    echo JLayoutHelper::render('template.content.create_date', array('date' => $this->item->creat  
ed, 'format' => 'DATE_FORMAT_CC1'));  
endif;
```

vraagt om `html/layouts/template/content/create_date.php`

Eigen JLayouts voor datum notatie

toegepast in `html/categories/blog_item.php`

```
if ($params->get('show_publish_date')) :  
    echo JLayoutHelper::render('template.content.create_date', array('date' => $this->item->creat  
ed, 'format' => 'DATE_FORMAT_CC1'));  
endif;
```

vraagt om `html/layouts/template/content/create_date.php`

Datum is taalstring

override in `language/overrides/nl-NL-override.ini`

```
DATE_FORMAT_CC1="F Y"
```

output: maand jaar

Eigen JLayouts - inhoud

- `html/layouts/template/content/create_date.php`

```
<?php
defined('JPATH_BASE') or die;

$date = $displayData['date'];
$class = isset($displayData['class']) ? $displayData['class'] : 'content';
$format = JText::_('displayData['format']);
```

echo '';
echo '<time datetime="' . JHtml::_('date', \$date, 'c') . '" itemprop = "dateCreated" >';
echo JHtml::_('date', \$date, \$format);
echo '</time>';
echo '';

Eigen JLayouts - inhoud

- `html/layouts/template/content/create_date.php`

```
<?php
defined('JPATH_BASE') or die;

$date = $displayData['date'];
$class = isset($displayData['class']) ? $displayData['class'] : 'content';
$format = JText::_('displayData['format']);
```

echo '';
echo '<time datetime="' . JHtml::_('date', \$date, 'c') . '" itemprop="dateCreated">';
echo JHtml::_('date', \$date, \$format);
echo '</time>';
echo '';

Resulteert in

```
<span class="content__create"><time datetime="2017-02-17T10:31:00+01:00" itemprop="dateCreated">f
ebruari 2017</time></span>
```

Eigen JLayouts - Google Maps

- `html/layouts/template/blocks/gmap.php`
- op te roepen via:

```
<?php echo JLayouts::render('block-gmap'); ?>
```

Eigen JLayouts - Google Maps

Eigen JLayouts - Gmap

Bedankt!

Hans Kuijpers

@hans2103

