
TwigExcelBundle

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Installation

Step 1: Download the Bundle

Open a command console, enter your project directory and execute the following command to download the latest stable version of this bundle:

```
$ composer require mewesk/twig-excel-bundle
```

Or add the following code to your `composer.json` file and run `composer update` afterwards:

```
{
    "require": {
        "mewesk/twig-excel-bundle": "1.3.*@dev"
    }
}
```

```
$ php composer.phar update mewesk/twig-excel-bundle
```

This requires you to have Composer installed globally, as explained in the [installation chapter](<https://getcomposer.org/doc/00-intro.md>) of the Composer documentation.

Step 2: Enable the Bundle

```
<?php
// app/AppKernel.php

// ...
class AppKernel extends Kernel
{
    public function registerBundles()
```

```
{
    $bundles = array(
        // ...

        new MewesK\TwigExcelBundle\MewesKTwigExcelBundle(),
    );

    // ...
}

// ...
}
```

Step 3: Configure the Bundle (optional)

Add the following configuration to your config.yml if you don't want to pre-calculate formulas. Disabling this option can improve the performance but the resulting documents won't show the result of any formulas when opened in a external spreadsheet software.

```
mewes_k_twig_excel:
    pre_calculate_formulas: false
```

Add the following configuration to your config.yml if you want to enable disk caching. Using disk caching can improve memory consumption by writing data to disk temporarily. Works only for .XLSX and .ODS documents.

```
mewes_k_twig_excel:
    disk_caching_directory: "%kernel.cache.dir%/phpexcel"
```

Getting started

Step 1: Create your controller

```
<?php
// src/Acme/HelloBundle/Controller/HelloController.php

namespace Acme\HelloBundle\Controller;

use Sensio\Bundle\FrameworkExtraBundle\Configuration\Route;
use Sensio\Bundle\FrameworkExtraBundle\Configuration\Template;
use Symfony\Component\HttpFoundation\Response;

class HelloController
{
    /**
     * @Route("/hello.{_format}", defaults={"_format"="xls"}, requirements={"_format"=
↪ "csv|xls|xlsx"})
     * @Template("AcmeHelloBundle:Hello:index.xls.twig")
     */
    public function indexAction($name)
    {
        return ['data' => ['La', 'Le', 'Lu']];
    }
}
```

Step 2: Create your template

```
{# src/Acme/HelloBundle/Resources/views/Hello/index.xls.twig #}

{% xlsdocument %}
    {% xlssheet 'Worksheet' %}
        {% xlsrow %}
            {% xlscell { style: { font: { size: '18' } } } %}Values{% endxlscell %}
        {% endxlsrow %}
        {% for value in data %}
            {% xlsrow %}
                {% xlscell %}{ { value } }{% endxlscell %}
            {% endxlsrow %}
        {% endfor %}
    {% endxlssheet %}
{% endxlsdocument %}
```

Examples

For more advanced examples check the unit test scenarios here:

<https://github.com/MewesK/TwigExcelBundle/tree/master/Tests/Resources/views>

Twig Functions

xlsmergestyles

```
xlsmergestyles([style1:array], [style2:array])
```

- Merges two style arrays recursively
- Returns a new array

Parameters

Name	Type	Optional	Description
style1	array		Standard PhpExcel style array
style2	array		Standard PhpExcel style array

Example

```
{% set mergedStyle = xlsmergestyles({ font: { name: 'Verdana' } }, { font: { size: '18' } }) %}
```

Twig Tags

xlsdocument

```
{% xlsdocument [properties:array] %}
...
{% endxlsdocument %}
```

- Must contain one or more 'xlssheet' tags

Attributes

Name	Type	Optional	Description
properties	array	X	

Properties

Name	Type	XL\$	OD\$	Description
category	string	X		
company	string			
created	date-time	X	X	Can be null, timestamp or a strtotime compatible string
creator	string	X	X	
default-Style	array			Standard PhpExcel style array
description	string	X	X	
format	string	X		Possible formats are 'csv', 'html', 'pdf', 'xls', 'xlsx'
keywords	string	X		
lastModifiedBy	string	X		
manager	string			
modified	date-time	X	X	Can be null, timestamp or a strtotime compatible string
security	array			Cannot be tested - not supported by the reader
+ lockRevision	boolean			Cannot be tested - not supported by the reader
+ lockStructure	boolean			Cannot be tested - not supported by the reader
+ lockWindows	boolean			Cannot be tested - not supported by the reader
+ revision-Password	string			Cannot be tested - not supported by the reader
+ workbook-Password	string			Cannot be tested - not supported by the reader
subject	string	X	X	
template	string	X	X	The path can be an absolute system path or a Twig namespace prefixed path like '@AppBundle/...' or a custom one like '@Templates/...'. Works for CSV too.
title	string	X	X	

Example

```
{% xlsdocument {
    category: 'Test category',
    company: 'Test company',
    created: '2000/01/01',
    creator: 'Tester',
    defaultStyle: {
        font: {
            name: 'Verdana',
            size: 18.0
        }
    },
    description: 'Test document',
    format: 'xls',
    keywords: 'Test',
    lastModifiedBy: 'Tester',
    manager: 'Tester',
    modified: '2000/01/01',
    security: {
        lockRevision: true,
        lockStructure: true,
        lockWindows: true,
        revisionsPassword: 'test',
        workbookPassword: 'test'
    },
    subject: 'Test',
    title: 'Test'
} %}
{# ... #}
{% endxlsdocument %}
```

xlssheet

```
{% xlssheet [title:string] [properties:array] %}
...
{% endxlssheet %}
```

- May contain one or more ‘xlsheader’, ‘xlsfooter’, ‘xlsrow’ and ‘xlsdrawing’ tags

Attributes

Name	Type	Optional	Description
title	string	X	If no title is given the first existing sheet will be used. If no sheet exists a new one will be created.
properties	array	X	

Properties

Name	Type	XLS	ODS	Description
autoFilter	string			The range like 'A1:E20'
columnDimension	array			Contains one or more arrays. Possible keys are 'default' or a valid column name
+ autoSize	boolean			
+ collapsed	boolean			Does not work in PhpExcel?
+ columnIndex	string			Does not work in PhpExcel?
+ outlineLevel	int			
+ visible	boolean			Does not work in PhpExcel?
+ width	double			
+ xfIndex	int			
pageMargins	array			
+ top	double			
+ bottom	double			
+ left	double			
+ right	double			
+ header	double			
+ footer	double			
pageSetup	array			
+ fitToHeight	int			
+ fitToPage	boolean			
+ fitToWidth	int			
+ horizontalCentered	boolean			
+ orientation	string			Possible orientations are 'default', 'landscape', 'portrait'
+ paperSize	int			Possible values are defined in PHPExcel_Worksheet_PageSetup
+ printArea	string			A range like 'A1:E20'
+ scale	int			
+ verticalCentered	boolean			
protection	array			
+ autoFilter	boolean			
+ deleteColumns	boolean			
+ deleteRows	boolean			
+ formatCells	boolean			
+ formatColumns	boolean			
+ formatRows	boolean			
+ insertColumns	boolean			
+ insertHyperlinks	boolean			
+ insertRows	boolean			
+ objects	boolean			
+ password	string			
+ pivotTables	boolean			
+ scenarios	boolean			
+ selectLockedCells	boolean			
+ selectUnlockedCells	boolean			
+ sheet	boolean			
+ sort	boolean			
printGridlines	boolean			
rightToLeft	boolean			
rowDimension	array			Contains one or more arrays. Possible keys are 'default' or a row index >=1
+ collapsed	boolean			Does not work in PhpExcel?
+ outlineLevel	int			
+ rowHeight	double			

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Name	Type	XLS	ODS	Description
+ rowIndex	int			Does not work in PhpExcel?
+ visible	boolean			Does not work in PhpExcel?
+ xfIndex	int			
+ zeroHeight	boolean			Does not work in PhpExcel?
sheetState	string			
showGridlines	boolean			Cannot be tested - not supported by the reader
tabColor	string			
zoomScale	int			

Example

```
{% xlssheet 'Worksheet' {
    columnDimension: {
        'default': {
            autoSize: false,
            collapsed: false,
            outlineLevel: 0,
            visible: true,
            width: -1,
            xfIndex: 0
        },
        'D': {
            columnIndex: 2,
            visible: false
        }
    },
    pageMargins: {
        top: 1,
        bottom: 1,
        left: 0.75,
        right: 0.75,
        header: 0.5,
        footer: 0.5
    },
    pageSetup: {
        fitToHeight: 1,
        fitToPage: false,
        fitToWidth: 1,
        horizontalCentered: false,
        orientation: 'landscape',
        paperSize: 9,
        printArea: 'A1:B1',
        scale: 100,
        verticalCentered: false
    },
    protection: {
        autoFilter: true,
        deleteColumns: true,
        deleteRows: true,
        formatCells: true,
        formatColumns: true,
        formatRows: true,
        insertColumns: true,
        insertHyperlinks: true,
```

```

        insertRows: true,
        objects: true,
        pivotTables: true,
        scenarios: true,
        selectLockedCells: true,
        selectUnlockedCells: true,
        sheet: true,
        sort: true
    },
    printGridlines: true,
    rightToLeft: false,
    rowDimension: {
        'default': {
            collapsed: false,
            outlineLevel: 0,
            rowHeight: -1,
            rowIndex: '1',
            visible: true,
            xfIndex: 0,
            zeroHeight: false
        },
        '2': {
            visible: false
        }
    },
    sheetState: 'visible',
    showGridlines: true,
    tabColor: 'c0c0c0',
    zoomScale: 75
} %}
{# ... #}
{% endxlsxsheet %}

```

xlsheader

```

{% xlsheader [type:string] [properties:array] %}
...
{% endxlsheader %}

```

- May contain one 'xlsleft', 'xlscenter' and 'xlsright' tag
- Not supported by the OpenDocument writer

Attributes

Name	Type	Optional	Description
type	string	X	Possible types are 'header' (default), 'oddHeader' (xlsx), 'evenHeader' (xlsx), 'firstHeader' (xlsx)
properties	array	X	

Properties

Name	Type	XLS	ODS	Description
scaleWithDocument	boolean			
alignWithMargins	boolean			

Example

```
{% xlsheader 'firstHeader' %}
    {# ... #}
{% endxlsheader %}
```

xlsfooter

```
{% xlsfooter [type:string] [properties:array] %}
    ...
{% endxlsfooter %}
```

- May contain one 'xlsleft', 'xlscenter' and 'xlsright' tag
- Not supported by the OpenDocument writer

Attributes

Name	Type	Optional	Description
type	string	X	Possible types are 'footer' (default), 'oddFooter' (xlsx), 'evenFooter' (xlsx), 'firstFooter' (xlsx)
properties	array	X	

Properties

Name	Type	XLS	ODS	Description
scaleWithDocument	boolean			
alignWithMargins	boolean			

Example

```
{% xlsfooter 'firstFooter' %}
    {# ... #}
{% endxlsfooter %}
```

xlsleft, xlscenter, xlsright

```
{% xlsleft %}  
...  
{% endxlsleft %}  
  
{% xlscenter %}  
...  
{% endxlscenter %}  
  
{% xlsright %}  
...  
{% endxlsright %}
```

- May contain one ‘xlsdrawing’ tag (not supported by the Excel5 and OpenDocument writer)
- Not supported by the OpenDocument writer
- These tags replace the &L, &C and &R format codes.
- All other codes can be found at: <https://github.com/PHPOffice/PHPExcel/blob/develop/Documentation/markdown/Overview/08-Recipes.md#setting-the-print-header-and-footer-of-a-worksheet>

Example

```
{% xlsheader %}  
  {% xlsleft %}  
    Left part of the header  
  {% endxlsleft %}  
  {% xlscenter %}  
    Center part of the header  
  {% endxlscenter %}  
  {% xlsright %}  
    Right part of the header  
  {% endxlsright %}  
{% endxlsheader %}
```

xlsrow

```
{% xlsrow [index:int] %}  
...  
{% endxlsrow %}
```

- May contain one or more ‘xlscell’ tags
- If ‘index’ is not defined it will default to 1 for the first usage per sheet
- For each further usage it will increase the index by 1 automatically (1, 2, 3, ...)

Attributes

Name	Type	Optional	Description
index	int		A row index >=1

Example

```
{% xlsrow 1 %}
    {# ... #}
{% endxlsrow %}
```

xls cell

```
{% xls cell [index:string] [properties:array] %}
    ...
{% endxls cell %}
```

- If 'index' is not defined it will default to 0 for the first usage per row
- For each further usage it will increase the index by 1 automatically (0, 1, 2, ...)
- Formulas are supported (e.g. =SUM(A1:F1) or =A1+B1)

Attributes

Name	Type	Optional	Description
index	int		A column index >=0
properties	array	X	

Properties

Name	Type	XLS	ODS	Description
break	int	X		Possible values are defined in PHPExcel_Worksheet
dataType	string	X	X	Possible values are defined in PHPExcel_Cell_DataType
dataValidation	array			
+ allowBlank	boolean			
+ error	string			
+ errorStyle	string			Possible values are defined in PHPExcel_Cell_DataValidation
+ errorTitle	string			
+ formula1	string			
+ formula2	string			
+ operator	string			Possible values are defined in PHPExcel_Cell_DataValidation
+ prompt	string			
+ promptTitle	string			
+ showDropDown	boolean			
+ showErrorMessage	boolean			
+ showInputMessage	boolean			
+ type	string			Possible values are defined in PHPExcel_Cell_DataValidation
explicitValue	boolean	X		If true cell is rendered as an explicit value (useful to show leading zeros using strings)
merge	int string	X		Merge a cell range. Allows zero-based cell index or cell coordinates like 'A3'
style	array	X		Standard PhpExcel style array
url	string	X		

Example

```
{% xlscell 0 {
    break: 1,
    dataValidation: {
        allowBlank: false,
        error: '',
        errorStyle: 'stop',
        errorTitle: '',
        formula1: '',
        formula2: '',
        operator: '',
        prompt: ''
        promptTitle: '',
        showDropDown: false,
        showErrorMessage: false,
        showInputMessage: false,
        type: 'none',
    },
    merge: 2,
    style: {
        borders: {
            bottom: {
                style: 'thin',
                color: {
```

```

        rgb: '000000'
    }
}
},
url: 'http://www.example.com'
} %}
{# ... #}
{% endxlsccell %}

```

xlsdrawing

```
{% xlsdrawing [path:string] [properties:array] %}
```

- If the xlsdrawing is used in a header/footer it automatically adds the &G code to be displayed
- Not supported by the OpenDocument writer

Attributes

Name	Type	Optional	Description
path	string		
properties	array	X	

Properties

Name	Type	XLS	ODS	Description
coordinates	string	X		Cell coordinates like 'A1'
description	string			
height	int	X		
name	string			
offsetX	int			
offsetY	int			
resizeProportional	boolean	X		
rotation	int			
shadow	array			
+ alignment	string			Possible values are defined in PHPExcel_Worksheet_Drawing_Shadow
+ alpha	int			
+ blurRadius	int			
+ color	string			A hexadecimal color string like '000000' (without #)
+ direction	int			
+ distance	int			
+ visible	boolean			
width	int	X		

Example

```
{% xlsdrawing '/test.png' {  
    coordinates: 'A1',  
    description: 'Test',  
    height: 0,  
    name: '',  
    offsetX: 0,  
    offsetY: 0,  
    resizeProportional: true,  
    rotation: 0,  
    shadow: {  
        alignment: 'br',  
        alpha: 50,  
        blurRadius: 6,  
        color: '000000',  
        direction: 0,  
        distance: 2,  
        visible: false  
    },  
    width: 0  
} %}
```

xlsblock

```
{% xlsblock ... %}  
    {# ... #}  
{% endxlsblock %}
```

- Works the same way as the standard block tag does
- Attention: the standard block tag does not with tags provided by this bundle

Example

```
{# parent.xls.twig #}  
  
{% xlsblock test %}  
    {# ... #}  
{% endxlsblock %}
```

```
{# child.xls.twig #}  
  
{% extends 'parent.xls.twig' %}  
  
{% xlsblock test %}  
    {# ... #}  
{% endxlsblock %}
```

xlsmacro

```
{% xlsmacro ... %}
    {# ... #}
{% endxlsmacro %}
```

- Works the same way as the standard macro tag does
- Attention: the standard macro tag does not work with tags provided by this bundle

Example

```
{# macros.xls.twig #}

{% xlsmacro test() %}
    {# ... #}
{% endxlsmacro %}
```

```
{# test.xls.twig #}

{% import 'macros.xls.twig' as macros %}

{# ... #}
{{ macros.test() }}
{# ... #}
```

xlsinclude

```
{% xlsinclude %}
    {# ... #}
{% endxlsinclude %}
```

- Attention: without this wrapper tag templates containing tags provided by this bundle can not be used

Example

```
{# include.xls.twig #}

{% xlsinclude %}
    {# ... #}
{% endxlsinclude %}
```

```
{# test.xls.twig #}

{% include 'include.xls.twig' %}
```