PhpWord Documentation

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The PhpWord Team

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PHPWord is a library written in pure PHP that provides a set of classes to write to and read from different document file formats. The current version of PHPWord supports Microsoft Office Open XML (OOXML or OpenXML), OASIS Open Document Format for Office Applications (OpenDocument or ODF), and Rich Text Format (RTF).

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Introduction

PHPWord is a library written in pure PHP that provides a set of classes to write to and read from different document file formats. The current version of PHPWord supports Microsoft Office Open XML (OOXML or OpenXML), OASIS Open Document Format for Office Applications (OpenDocument or ODF), and Rich Text Format (RTF).

PHPWord is an open source project licensed under the terms of LGPL version 3. PHPWord is aimed to be a high quality software product by incorporating continuous integration and unit testing. You can learn more about PHPWord by reading this Developers' Documentation and the API Documentation.

1.1 Features

- Set document properties, e.g. title, subject, and creator.
- · Create document sections with different settings, e.g. portrait/landscape, page size, and page numbering
- Create header and footer for each sections
- Set default font type, font size, and paragraph style
- Use UTF-8 and East Asia fonts/characters
- Define custom font styles (e.g. bold, italic, color) and paragraph styles (e.g. centered, multicolumns, spacing) either as named style or inline in text
- Insert paragraphs, either as a simple text or complex one (a text run) that contains other elements
- Insert titles (headers) and table of contents
- Insert text breaks and page breaks
- Insert and format images, either local, remote, or as page watermarks
- Insert binary OLE Objects such as Excel or Visio
- Insert and format table with customized properties for each rows (e.g. repeat as header row) and cells (e.g. background color, rowspan, colspan)
- · Insert list items as bulleted, numbered, or multilevel
- Insert hyperlinks
- · Insert footnotes and endnotes
- Create document from templates
- Use XSL 1.0 style sheets to transform main document part of OOXML template
- ... and many more features on progress

1.2 File formats

Below are the supported features for each file formats.

1.2.1 Writers

Features		DOCX	ODT	RTF	HTML	PDF
Document Properties	Standard					
	Custom					
Element Type	Text					
	Text Run					
	Title					
	Link					
	Preserve Text					
	Text Break					
	Page Break					
	List					
	Table					
	Image					
	Object					
	Watermark					
	Table of Contents					
	Header					
	Footer					
	Footnote					
	Endnote					
Graphs	2D basic graphs					
	2D advanced graphs					
	3D graphs					
Math	OMML support					
	MathML support					
Bonus	Encryption					
	Protection					

1.2.2 Readers

Features		DOCX	ODT	RTF	HTML
Document Properties	Standard				
	Custom				
Element Type	Text				
	Text Run				
	Title				
	Link				
	Preserve Text				
	Text Break				
	Page Break				
	List				
	Table				
	Image				
	Object				
	Watermark				
	Table of Contents				
	Header				
	Footer				
	Footnote				
	Endnote				
Graphs	2D basic graphs				
	2D advanced graphs				
	3D graphs				
Math	OMML support				
	MathML support				
Bonus	Encryption				
	Protection				

1.3 Contributing

We welcome everyone to contribute to PHPWord. Below are some of the things that you can do to contribute:

- Read our contributing guide
- Fork us and request a pull to the develop branch
- Submit bug reports or feature requests to GitHub
- Follow @PHPWord and @PHPOffice on Twitter

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Installing/configuring

2.1 Requirements

Mandatory:

- PHP 5.3+
- PHP Zip extension
- PHP XML Parser extension

Optional PHP extensions:

- GD
- XMLWriter
- XSL

2.2 Installation

There are two ways to install PHPWord, i.e. via Composer or manually by downloading the library.

2.2.1 Using Composer

To install via Composer, add the following lines to your composer.json:

```
{
    "require": {
        "phpoffice/phpword": "dev-master"
    }
}
```

2.2.2 Manual install

To install manually, download PHPWord package from github. Extract the package and put the contents to your machine. To use the library, include src/PhpWord/Autoloader.php in your script and invoke Autoloader:register.

```
require_once '/path/to/src/PhpWord/Autoloader.php';
\PhpOffice\PhpWord\Autoloader::register();
```

2.3 Using samples

After installation, you can browse and use the samples that we've provided, either by command line or using browser. If you can access your PHPWord library folder using browser, point your browser to the samples folder, e.g. http://localhost/PhpWord/samples/.

General usage

3.1 Basic example

The following is a basic example of the PHPWord library. More examples are provided in the samples folder.

```
require_once 'src/PhpWord/Autoloader.php';
\PhpOffice\PhpWord\Autoloader::register();
$phpWord = new \PhpOffice\PhpWord\PhpWord();
// Every element you want to append to the word document is placed in a section.
// To create a basic section:
$section = $phpWord->addSection();
// After creating a section, you can append elements:
$section->addText('Hello world!');
// You can directly style your text by giving the addText function an array:
$section->addText('Hello world! I am formatted.',
    array('name'=>'Tahoma', 'size'=>16, 'bold'=>true));
// If you often need the same style again you can create a user defined style
// to the word document and give the addText function the name of the style:
$phpWord->addFontStyle('myOwnStyle',
   array('name'=>'Verdana', 'size'=>14, 'color'=>'1B2232'));
$section->addText('Hello world! I am formatted by a user defined style',
    'myOwnStyle');
// You can also put the appended element to local object like this:
$fontStyle = new \PhpOffice\PhpWord\Style\Font();
$fontStyle->setBold(true);
$fontStyle->setName('Verdana');
$fontStyle->setSize(22);
$myTextElement = $section->addText('Hello World!');
$myTextElement->setFontStyle($fontStyle);
// Finally, write the document:
$objWriter = \PhpOffice\PhpWord\IOFactory::createWriter($phpWord, 'Word2007');
$objWriter->save('helloWorld.docx');
$objWriter = \PhpOffice\PhpWord\IOFactory::createWriter($phpWord, 'ODText');
$objWriter->save('helloWorld.odt');
```

```
$objWriter = \PhpOffice\PhpWord\IOFactory::createWriter($phpWord, 'RTF');
$objWriter->save('helloWorld.rtf');
```

3.2 Settings

The PhpOffice\PhpWord\Settings class provides some options that will affect the behavior of PHPWord. Below are the options.

3.2.1 XML Writer compatibility

This option sets XMLWriter::setIndent and XMLWriter::setIndentString. The default value of this option is true (compatible), which is required for OpenOffice to render OOXML document correctly. You can set this option to false during development to make the resulting XML file easier to read.

```
\PhpOffice\PhpWord\Settings::setCompatibility(false);
```

3.2.2 Zip class

By default, PHPWord uses PHP ZipArchive to read or write ZIP compressed archive and the files inside them. If you can't have ZipArchive installed on your server, you can use pure PHP library alternative, PCLZip, which included with PHPWord.

```
\PhpOffice\PhpWord\Settings::setZipClass(\PhpOffice\PhpWord\Settings::PCLZIP);
```

3.3 Default font

By default, every text appears in Arial 10 point. You can alter the default font by using the following two functions:

```
$phpWord->setDefaultFontName('Times New Roman');
$phpWord->setDefaultFontSize(12);
```

3.4 Document properties

You can set the document properties such as title, creator, and company name. Use the following functions:

```
$properties = $phpWord->getDocumentProperties();
$properties->setCreator('My name');
$properties->setCompany('My factory');
$properties->setTitle('My title');
$properties->setDescription('My description');
$properties->setCategory('My category');
$properties->setLastModifiedBy('My name');
$properties->setCreated(mktime(0, 0, 0, 3, 12, 2014));
$properties->setModified(mktime(0, 0, 0, 3, 14, 2014));
$properties->setSubject('My subject');
$properties->setKeywords('my, key, word');
```

3.5 Measurement units

The base length unit in Open Office XML is twip. Twip means "TWentieth of an Inch Point", i.e. 1 twip = 1/1440 inch.

You can use PHPWord helper functions to convert inches, centimeters, or points to twips.

3.5. Measurement units

Containers

Containers are objects where you can put elements (texts, lists, tables, etc). There are 3 main containers, i.e. sections, headers, and footers. There are 3 elements that can also act as containers, i.e. textruns, table cells, and footnotes.

4.1 Sections

Every visible element in word is placed inside of a section. To create a section, use the following code:

```
$section = $phpWord->addSection($sectionSettings);
```

The \$sectionSettings is an optional associative array that sets the section. Example:

```
$sectionSettings = array(
    'orientation' => 'landscape',
    'marginTop' => 600,
    'colsNum' => 2,
);
```

4.1.1 Section settings

Below are the available settings for section:

- orientation Page orientation, i.e. 'portrait' (default) or 'landscape'
- marginTop Page margin top in twips
- marginLeft Page margin left in twips
- marginRight Page margin right in twips
- $\bullet \ \text{marginBottom} \ Page \ margin \ bottom \ in \ twips$
- borderTopSize Border top size in twips
- borderTopColor Border top color
- borderLeftSize Border left size in twips
- borderLeftColor Border left color
- $\bullet \ \, \text{borderRightSize Border right size in twips}$
- borderRightColor Border right color
- borderBottomSize Border bottom size in twips

- borderBottomColor Border bottom color
- headerHeight Spacing to top of header
- footerHeight Spacing to bottom of footer
- gutter Page gutter spacing
- colsNum Number of columns
- colsSpace Spacing between columns
- breakType Section break type (nextPage, nextColumn, continuous, evenPage, oddPage)

The following two settings are automatically set by the use of the orientation setting. You can alter them but that's not recommended.

- pageSizeW Page width in twips
- pageSizeH Page height in twips

4.1.2 Page number

You can change a section page number by using the pageNumberingStart property of the section.

```
// Method 1
$section = $phpWord->addSection(array('pageNumberingStart' => 1));
// Method 2
$section = $phpWord->addSection();
$section->getSettings()->setPageNumberingStart(1);
```

4.1.3 Multicolumn

You can change a section layout to multicolumn (like in a newspaper) by using the breakType and colsNum property of the section.

```
// Method 1
$section = $phpWord->addSection(array('breakType' => 'continuous', 'colsNum' => 2));

// Method 2
$section = $phpWord->addSection();
$section->getSettings()->setBreakType('continuous');
$section->getSettings()->setColsNum(2);
```

Line numbering

You can apply line numbering to a section by using the lineNumbering property of the section.

```
// Method 1
$section = $phpWord->addSection(array('lineNumbering' => array()));

// Method 2
$section = $phpWord->addSection();
$section->getSettings()->setLineNumbering(array());
```

Below are the properties of the line numbering style.

- start Line numbering starting value
- increment Line number increments

- distance Distance between text and line numbering in twip
- restart Line numbering restart setting continuouslnewPagelnewSection

4.2 Headers

Each section can have its own header reference. To create a header use the addHeader method:

```
$header = $section->addHeader();
```

Be sure to save the result in a local object. You can use all elements that are available for the footer. See "Footer" section for detail. Additionally, only inside of the header reference you can add watermarks or background pictures. See "Watermarks" section.

4.3 Footers

Each section can have its own footer reference. To create a footer, use the addFooter method:

```
$footer = $section->addFooter();
```

Be sure to save the result in a local object to add elements to a footer. You can add the following elements to footers:

- Texts addText and createTextrun
- · Text breaks
- Images
- Tables
- · Preserve text

See the "Elements" section for the detail of each elements.

4.4 Other containers

Textruns, table cells, and footnotes are elements that can also act as containers. See the corresponding "Elements" section for the detail of each elements.

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Elements

Below are the matrix of element availability in each container. The column shows the containers while the rows lists the elements.

Num	Element	Section	Header	Footer	Cell	Text Run	Footnote
1	Text	v	v	v	v	v	v
2	Text Run	v	v	v	v	•	•
3	Link	v	v	v	v	v	v
4	Title	v	?	?	?	?	?
5	Preserve Text	?	v	v	V*	•	•
	Treserve reac	•	,	•	,	•	•
_							
6	Text Break	v	v	V	v	V	v
7	Page Break	V	•	•	•	•	•
8	List	v	v	v	v	_	_
						•	•
9	Table						
9	Table	V	V	V	V	•	•
10	Image	V	v	V	v	V	v
11	Watermark	•	v	•	•	•	•
12	Object	v	v	v	v	V	v
13	TOC	v	·	•	·	•	,
13	100	•	•	•	•	•	•
	-				atrati	atests	
14	Footnote	v	•	•	V**	V**	•
15	Endnote	v	.	•	V**	V**	•
			-	-			-
16	CheckBox	V	v	V	V		
10	Checkbox	V	v	v	v	•	•
17	TextBox	v	v	v	v	•	•
18	Field	v	v	V	v	V	v
19	Line	V	v	V	v	V	v
					1		1

Legend:

- v Available
- v* Available only when inside header/footer
- v** Available only when inside section
- - Not available
- ? Should be available

5.1 Texts

Text can be added by using addText and addTextRun method. addText is used for creating simple paragraphs that only contain texts with the same style. addTextRun is used for creating complex paragraphs that contain text with different style (some bold, other italics, etc) or other elements, e.g. images or links. The syntaxes are as follow:

```
$section->addText($text, [$fontStyle], [$paragraphStyle]);
$textrun = $section->addTextRun([$paragraphStyle]);
```

5.1.1 Text styles

You can use the \$fontStyle and \$paragraphStyle variable to define text formatting. There are 2 options to style the inserted text elements, i.e. inline style by using array or defined style by adding style definition.

Inline style examples:

```
$fontStyle = array('name' => 'Times New Roman', 'size' => 9);
$paragraphStyle = array('align' => 'both');
$section->addText('I am simple paragraph', $fontStyle, $paragraphStyle);
$textrun = $section->addTextRun();
$textrun->addText('I am bold', array('bold' => true));
$textrun->addText('I am italic', array('italic' => true));
$textrun->addText('I am colored', array('color' => 'AACCOO'));

Defined style examples:

$fontStyle = array('color' => '006699', 'size' => 18, 'bold' => true);
$phpWord->addFontStyle('fStyle', $fontStyle);
$text = $section->addText('Hello world!', 'fStyle');

$paragraphStyle = array('align' => 'center');
$phpWord->addParagraphStyle('pStyle', $paragraphStyle);
$text = $section->addText('Hello world!', 'pStyle');
```

Font style

Available font styles:

- name Font name, e.g. Arial
- size Font size, e.g. 20, 22,
- hint Font content type, default, eastAsia, or cs
- bold Bold, true or false
- italic Italic, true or false

- superScript Superscript, true or false
- subScript Subscript, true or false
- underline Underline, dash, dotted, etc.
- strikethrough Strikethrough, true or false
- doubleStrikethrough Double strikethrough, true or false
- color Font color, e.g. FF0000
- fgColor Font highlight color, e.g. yellow, green, blue
- bgColor Font background color, e.g. FF0000
- smallCaps Small caps, true or false
- allCaps All caps, true or false

Paragraph style

Available paragraph styles:

- align Paragraph alignment, left, right or center
- spaceBefore Space before paragraph
- spaceAfter Space after paragraph
- indent Indent by how much
- hanging Hanging by how much
- basedOn Parent style
- next Style for next paragraph
- widowControl Allow first/last line to display on a separate page, true or false
- keepNext Keep paragraph with next paragraph, true or false
- keepLines Keep all lines on one page, true or false
- pageBreakBefore Start paragraph on next page, true or false
- lineHeight text line height, e.g. 1.0, 1.5, ect...
- tabs Set of custom tab stops

5.1.2 Titles

If you want to structure your document or build table of contents, you need titles or headings. To add a title to the document, use the addTitleStyle and addTitle method.

```
$phpWord->addTitleStyle($depth, [$fontStyle], [$paragraphStyle]);
$section->addTitle($text, [$depth]);
```

Its necessary to add a title style to your document because otherwise the title won't be detected as a real title.

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5.1.3 Links

You can add Hyperlinks to the document by using the function addLink:

```
$section->addLink($linkSrc, [$linkName], [$fontStyle], [$paragraphStyle]);
```

- \$linkSrc The URL of the link.
- \$linkName Placeholder of the URL that appears in the document.
- \$fontStyle See "Font style" section.
- \$paragraphStyle See "Paragraph style" section.

5.1.4 Preserve texts

The addPreserveText method is used to add a page number or page count to headers or footers.

```
$footer->addPreserveText('Page {PAGE} of {NUMPAGES}.');
```

5.2 Breaks

5.2.1 Text breaks

Text breaks are empty new lines. To add text breaks, use the following syntax. All paramaters are optional.

```
$section->addTextBreak([$breakCount], [$fontStyle], [$paragraphStyle]);
```

- \$breakCount How many lines
- \$fontStyle See "Font style" section.
- \$paragraphStyle See "Paragraph style" section.

5.2.2 Page breaks

There are two ways to insert a page breaks, using the addPageBreak method or using the pageBreakBefore style of paragraph.

```
:: code-block:: php
\$section->addPageBreak();
```

5.3 Lists

To add a list item use the function addListItem.

Basic usage:

```
$section->addListItem($text, [$depth], [$fontStyle], [$listStyle], [$paragraphStyle]);
```

Parameters:

• \$text Text that appears in the document.

- \$depth Depth of list item.
- \$fontStyle See "Font style" section.
- \$listStyle List style of the current element TYPE_NUMBER, TYPE_ALPHANUM, TYPE_BULLET_FILLED, etc. See list of constants in PHPWord_Style_ListItem.
- \$paragraphStyle See "Paragraph style" section.

Advanced usage:

You can also create your own numbering style by changing the \$listStyle parameter with the name of your numbering style.

```
$phpWord->addNumberingStyle(
    'multilevel',
    array('type' => 'multilevel', 'levels' => array(
        array('format' => 'decimal', 'text' => '%1.', 'left' => 360, 'hanging' => 360, 'tabPos' => 360, '
```

Level styles:

- start Starting value
- format Numbering format bullet/decimal/upperRomanllowerRomanlupperLetter/lowerLetter
- restart Restart numbering level symbol
- suffix Content between numbering symbol and paragraph text tablspacelnothing
- text Numbering level text e.g. %1 for nonbullet or bullet character
- align Numbering symbol align leftlcenterlrightlboth
- left See paragraph style
- hanging See paragraph style
- tabPos See paragraph style
- font Font name
- hint See font style

5.4 Tables

To add tables, rows, and cells, use the addTable, addRow, and addCell methods:

```
$table = $section->addTable([$tableStyle]);
$table->addRow([$height], [$rowStyle]);
$cell = $table->addCell($width, [$cellStyle]);
```

Table style can be defined with addTableStyle:

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```
$tableStyle = array(
    'borderColor' => '006699',
    'borderSize' => 6,
    'cellMargin' => 50
);
$firstRowStyle = array('bgColor' => '66BBFF');
$phpWord->addTableStyle('myTable', $tableStyle, $firstRowStyle);
$table = $section->addTable('myTable');
```

5.4.1 Table, row, and cell styles

Table styles:

- width Table width in percent
- bgColor Background color, e.g. '9966CC'
- border (Top|Right|Bottom|Left) Size Border size in twips
- border (Top|Right|Bottom|Left)Color Border color, e.g. '9966CC'
- cellMargin (Top|Right|Bottom|Left) Cell margin in twips

Row styles:

- tblHeader Repeat table row on every new page, true or false
- cantSplit Table row cannot break across pages, true or false
- exactHeight Row height is exact or at least

Cell styles:

- width Cell width in twips
- valign Vertical alignment, top, center, both, bottom
- textDirection Direction of text
- bgColor Background color, e.g. '9966CC'
- border (Top|Right|Bottom|Left) Size Border size in twips
- border (Top|Right|Bottom|Left) Color Border color, e.g. '9966CC'
- gridSpan Number of columns spanned
- vMerge restart or continue

5.4.2 Cell span

You can span a cell on multiple columns by using gridSpan or multiple rows by using vMerge.

```
$cell = $table->addCell(200);
$cell->getStyle()->setGridSpan(5);
```

See Sample_09_Tables.php for more code sample.

5.5 Images

To add an image, use the addImage method to sections, headers, footers, textruns, or table cells.

```
$section->addImage($src, [$style]);
```

- source String path to a local image or URL of a remote image
- styles Array fo styles for the image. See below.

Examples:

```
$section = $phpWord->addSection();
$section->addImage(
    'mars.jpg',
    array(
        'width' => 100,
        'height' => 100,
        'marginTop' => -1,
        'marginLeft' => -1,
        'wrappingStyle' => 'behind'
)
);
$footer = $section->addFooter();
$footer->addImage('http://example.com/image.php');
$textrun = $section->addTextRun();
$textrun->addImage('http://php.net/logo.jpg');
```

5.5.1 Image styles

Available image styles:

- width Width in pixels
- height Height in pixels
- align Image alignment, left, right, or center
- marginTop Top margin in inches, can be negative
- marginLeft Left margin in inches, can be negative
- wrappingStyle Wrapping style, inline, square, tight, behind, or infront

5.5.2 Watermarks

To add a watermark (or page background image), your section needs a header reference. After creating a header, you can use the addWatermark method to add a watermark.

```
$section = $phpWord->addSection();
$header = $section->addHeader();
$header->addWatermark('resources/_earth.jpg', array('marginTop' => 200, 'marginLeft' => 55));
```

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5.6 Objects

You can add OLE embeddings, such as Excel spreadsheets or PowerPoint presentations to the document by using addObject method.

```
$section->addObject($src, [$style]);
```

5.7 Table of contents

To add a table of contents (TOC), you can use the addTOC method. Your TOC can only be generated if you have add at least one title (See "Titles").

```
$section->addTOC([$fontStyle], [$tocStyle], [$minDepth], [$maxDepth]);
```

- \$fontStyle: See font style section
- \$tocStyle: See available options below
- \$minDepth: Minimum depth of header to be shown. Default 1
- \$maxDepth: Maximum depth of header to be shown. Default 9

Options for \$tocStyle:

- tabLeader Fill type between the title text and the page number. Use the defined constants in PHP-Word_Style_TOC.
- tabPos The position of the tab where the page number appears in twips.
- indent The indent factor of the titles in twips.

5.8 Footnotes & endnotes

You can create footnotes with addFootnote and endnotes with addEndnote in texts or textruns, but it's recommended to use textrun to have better layout. You can use addText, addLink, addTextBreak, addImage, addObject on footnotes and endnotes.

On textrun:

```
$textrun = $section->addTextRun();
$textrun->addText('Lead text.');
$footnote = $textrun->addFootnote();
$footnote->addText('Footnote text can have ');
$footnote->addLink('http://test.com', 'links');
$footnote->addText('.');
$footnote->addTextBreak();
$footnote->addTextBreak();
$footnote->addText('And text break.');
$textrun->addText('Trailing text.');
$endnote = $textrun->addEndnote();
$endnote->addText('Endnote put at the end');
```

On text:

```
$section->addText('Lead text.');
$footnote = $section->addFootnote();
$footnote->addText('Footnote text.');
```

The footnote reference number will be displayed with decimal number starting from 1. This number use FooterReference style which you can redefine by addFontStyle method. Default value for this style is array ('superScript' => true);

5.9 Checkboxes

Checkbox elements can be added to sections or table cells by using addCheckBox.

```
$section->addCheckBox($name, $text, [$fontStyle], [$paragraphStyle])
```

- \$name Name of the check box.
- \$text Text following the check box
- \$fontStyle See "Font style" section.
- \$paragraphStyle See "Paragraph style" section.

5.10 Textboxes

To be completed

5.11 Fields

To be completed

5.12 Line

Line elements can be added to sections by using addLine.

```
$linestyle = array('weight' => 1, 'width' => 100, 'height' => 0, 'color' => 635552);
$section->addLine($lineStyle)
```

Available line style attributes:

- weight Line width in twips
- color Defines the color of stroke
- dash Line types: dash, rounddot, squaredot, dashdot, longdash, longdashdot, longdashdotdot
- beginArrow Start type of arrow: block, open, classic, diamond, oval
- endArrow End type of arrow: block, open, classic, diamond, ovel
- width Line-object width in pt
- height Line-object height in pt
- flip Flip the line element: true, false

5.9. Checkboxes 25

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Templates

You can create a docx template with included search-patterns that can be replaced by any value you wish. Only single-line values can be replaced. To load a template file, use the loadTemplate method. After loading the docx template, you can use the setValue method to change the value of a search pattern. The search-pattern model is: \${search-pattern}. It is not possible to add new PHPWord elements to a loaded template file.

Example:

```
$template = $phpWord->loadTemplate('Template.docx');
$template->setValue('Name', 'Somebody someone');
$template->setValue('Street', 'Coming-Undone-Street 32');
```

See Sample_07_TemplateCloneRow.php for example on how to create multirow from a single row in a template by using cloneRow.

See Sample_23_TemplateBlock.php for example on how to clone a block of text using cloneBlock and delete a block of text using deleteBlock.

Writers & readers

7.1 OOXML

The package of OOXML document consists of the following files.

- _rels/
 - .rels
- docProps/
 - app.xml
 - core.xml
 - custom.xml
- word/
 - rels/
 - * document.rels.xml
 - media/
 - theme/
 - * theme1.xml
 - document.xml
 - fontTable.xml
 - numbering.xml
 - settings.xml
 - styles.xml
 - webSettings.xml
- [Content_Types].xml

7.2 OpenDocument

7.2.1 Package

The package of OpenDocument document consists of the following files.

- META-INF/
 - manifest.xml
- Pictures/
- content.xml
- · meta.xml
- · styles.xml

7.2.2 content.xml

The structure of content.xml is described below.

- office:document-content
 - office:font-facedecls
 - office:automatic-styles
 - office:body
 - * office:text
 - · draw:*
 - · office:forms
 - · table:table
 - · text:list
 - · text:numbered-paragraph
 - · text:p
 - · text:table-of-contents
 - · text:section
 - * office:chart
 - * office:image
 - * office:drawing

7.2.3 styles.xml

The structure of styles.xml is described below.

- office:document-styles
 - office:styles
 - office:automatic-styles

- office:master-styles
 - * office:master-page

7.3 RTF

To be completed.

7.4 HTML

To be completed.

7.5 PDF

To be completed.

7.3. RTF 31

Recipes

8.1 Create float left image

Use absolute positioning relative to margin horizontally and to line vertically.

```
$imageStyle = array(
    'width' => 40,
    'height' => 40,
    'wrappingStyle' => 'square',
    'positioning' => 'absolute',
    'posHorizontalRel' => 'margin',
    'posVerticalRel' => 'line',
);
$textrun->addImage('resources/_earth.jpg', $imageStyle);
$textrun->addText($lipsumText);
```

8.2 Download the produced file automatically

Use php://output as the filename.

```
$phpWord = new \PhpOffice\PhpWord\PhpWord();
$section = $phpWord->createSection();
$section->addText('Hello World!');
$file = 'HelloWorld.docx';
header("Content-Description: File Transfer");
header('Content-Disposition: attachment; filename="' . $file . '"');
header('Content-Type: application/vnd.openxmlformats-officedocument.wordprocessingml.document');
header('Content-Transfer-Encoding: binary');
header('Cache-Control: must-revalidate, post-check=0, pre-check=0');
header('Expires: 0');
$xmlWriter = \PhpOffice\PhpWord\IOFactory::createWriter($phpWord, 'Word2007');
$xmlWriter->save("php://output");
```

8.3 Create numbered headings

Define a numbering style and title styles, and match the two styles (with pStyle and numStyle) like below.

Frequently asked questions

9.1 Is this the same with PHPWord that I found in CodePlex?

No. This one is much better with tons of new features that you can't find in PHPWord 0.6.3. The development in CodePlex is halted and switched to GitHub to allow more participation from the crowd. The more the merrier, right?

9.2 I've been running PHPWord from CodePlex flawlessly, but I can't use the latest PHPWord from GitHub. Why?

PHPWord requires PHP 5.3+ since 0.8, while PHPWord 0.6.3 from CodePlex can run with PHP 5.2. There's a lot of new features that we can get from PHP 5.3 and it's been around since 2009! You should upgrade your PHP version to use PHPWord 0.8+.

CHAPTER 10
Credits

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References

11.1 ISO/IEC 29500, Third edition, 2012-09-01

- Part 1: Fundamentals and Markup Language Reference
- Part 2: Open Packaging Conventions
- Part 3: Markup Compatibility and Extensibility
- Part 4: Transitional Migration Features

11.2 Formal specifications

- Oasis OpenDocument Standard Version 1.2
- Rich Text Format (RTF) Specification, version 1.9.1

11.3 Other resources

• DocumentFormat.OpenXml.Wordprocessing Namespace on MSDN

CHAPTER 12

Indices and tables

- genindex
- modindex
- search