LaTeX-WordFeel template

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A LaTeX template that mimics Microsoft Word's look and feel.

Contents

1 Introduction

LaTeX-WordFeel is a LaTeX imitation of Microsoft Word 2019's default template "`Normal.dotm`".

2 Compatibility

This template is designed solely for XeLaTeX due to its ability to use TrueType/OpenType fonts directly and its excellent Unicode support. Please be aware that pdfLaTeX is not supported.

3 Style definition

3.1 Page

LaTeX-WordFeel uses the default paper size of `article` class in your LaTeX distribution, which may be either A4 paper or Letter paper. To specify a paper size explicitly, pass `[a4paper]` or `[letterpaper]` to `\documentclass{wordfeel}`.

Page margin is set as in Table 1. If you want to change page margin, you can use the "geometry" package. Please refer to `http://mirrors.ctan.org/macros/latex/contrib/geometry/geometry.pdf` for the manual.

Table 1: Page margin definitions

Dimension	Value
Gutter	0 inch
Top margin	1 inch
Left margin	1 inch
Right margin	1 inch
Bottom margin	1 inch
Header from top	0.5 inch
Footer from bottom	0.5 inch

3.2 Paragraph

3.2.1 Line spacing

LaTeX-WordFeel uses multiple line spacing at 1.08×, which is the default in the United States version of Microsoft Word. To disable multi line spacing, use "`\linespread{1}`" in your document preamble.

3.2.2 Margin and indentation

LaTeX-WordFeel adds 8 bp of margin after each paragraph, which is the default in the United States version of Microsoft Word. To disable paragraph margin, use "`\setlength{\parskip}{0pt}`" in your document preamble.

LaTeX-WordFeel comes with no paragraph indentation by default. To enable paragraph indentation, use "`\setlength{\parindent}{0.5in}`" in your document preamble.

3.2.3 Justification

LaTeX-WordFeel uses justification with automatic hyphenation, although Microsoft Word does not enable automatic hyphenation by default. If you want to align to left instead, use "`\raggedright`" in your document preamble. You can also use the package "`ragged2e`" to enable advanced justification control.

3.3 Fonts

3.3.1 Font families

LaTeX-WordFeel uses the same font families as in Microsoft Word, listed in Table 2. Please note that you need to own a legal copy of these fonts to use this template.

Table 2: Font families

Letter form	Font family
Sans-serif (Default)	Calibri
Serif	Cambria
`Monospace`	`Consolas` (scaled by 94.72% to match ex-height)
$Math$	$Cambria\ Math$

3.3.2 Font sizes

The default font size is 11 bp. You may pass either `[10pt]`, `[11pt]`, or `[12pt]` to `\documentclass{wordfeel}` to select 10 bp, 11 bp, or 12 bp as the default font size.

In LaTeX, 1 inch = 72 bp = 72.27 pt, while in Microsoft Word, 1 inch = 72 pt. Therefore, you will need to use "bp" if you want your document to look similar to Microsoft Word's output.

The LaTeX font size macros are adjusted according to default font size, shown in Table 3.

Table 3: Font sizes

Macro name	`[10pt]`	`[11pt]`	`[12pt]`
`\tiny`	5 bp	6.5 bp	6.5 bp
`\scriptsize`	6.5 bp	8 bp	8 bp
`\footnotesize`	8 bp	9 bp	10 bp
`\small`	9 bp	10 bp	11 bp
`\normalsize`	10 bp	11 bp	12 bp
`\large`	12 bp	12 bp	14 bp
`\Large`	14 bp	14 bp	18 bp
`\LARGE`	18 bp	18 bp	20 bp
`\huge`	20 bp	20 bp	24 bp
`\Huge`	24 bp	24 bp	26 bp

Font metrics are set according to Calibri font, shown in Table 4. These parameters control line spacing and will not change even if you temporarily switch to another font family.

Table 4: Calibri font metrics

Metric	Value
Line height	2500
Ascent	1950
Descent	550
EM-size	2048
Ex-size	951

3.3.3 Ligatures

OpenType ligatures are enabled in LaTeX-WordFeel, although it is not enabled by Microsoft Word by default.

Calibri supports the following “Common”-category ligatures:

fb, ffb, fh, ffh, fi, ffi, fj, ffj, fk, ffk, fl, ffl, ft, fft, ft, tf, ti, tt, ttf, tti.

Cambria supports the following “Common”-category ligatures:

fb, ffb, fh, ffh, fi, ffi, fk, ffk, fl, ffl.

4 Math mode

LaTeX-WordFeel imports the amsmath package automatically. Also, LaTeX math mode can use $Cambria\ Math$ as the default math font.

Here are a few example equations typesetted with LaTeX math mode:

$$A = \pi r^2 \tag{1}$$

$$(x+a)^n = \sum_{k=0}^{n} \binom{n}{k} x^k a^{n-k} \tag{2}$$

$$(1+x)^n = 1 + \frac{nx}{1!} + \frac{n\,(n-1)\,x^2}{2!} + \dots \tag{3}$$

$$f\,(x) = a_0 + \sum_{n=1}^{\infty} \left(a_n \cos\frac{n\pi x}{L} + b_n \sin\frac{n\pi x}{L} \right) \tag{4}$$

$$a^2 + b^2 = c^2 \tag{5}$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \tag{6}$$

$$e^x = 1 + \frac{x}{1!} + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots, \qquad -\infty < x < \infty \tag{7}$$

$$\sin\alpha \pm \sin\beta = 2\sin\frac{1}{2}(\alpha \pm \beta)\cos\frac{1}{2}(\alpha \mp \beta) \tag{8}$$

$$\cos\alpha + \cos\beta = 2\cos\frac{1}{2}(\alpha + \beta)\cos\frac{1}{2}(\alpha - \beta) \tag{9}$$

5 Dummy text demo

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6 License

This template is released under MIT license. For more information, please refer to `https://github.com/m13253/LaTeX-WordFeel`.