

Overview of Writer Text Grid Formatting

Mark Hung

marklh9@gmail.com

ROME | 12 October 2017

Agenda

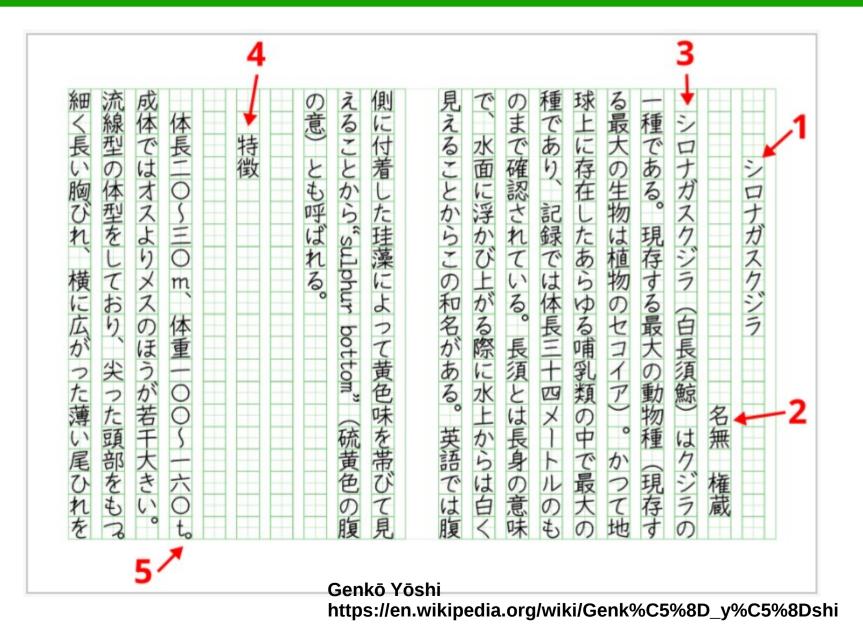
- Introduction
- Text Grid Features in Writer
- Formatting Issues
- Inside the Standard
- Conclusions



Introduction

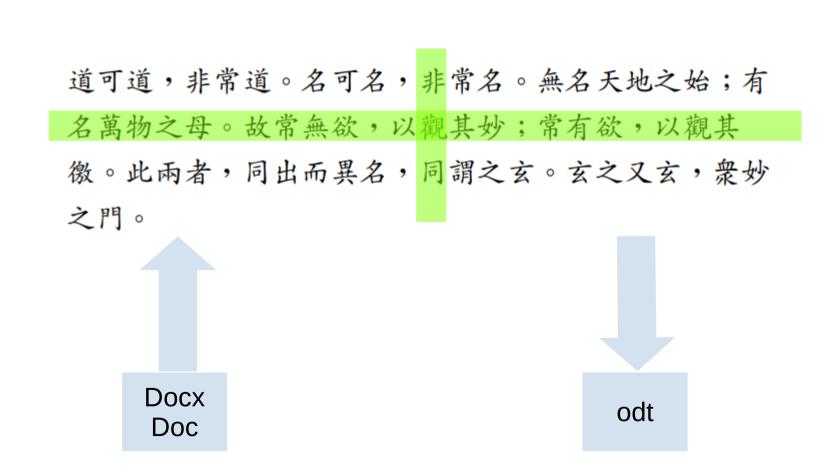


Introduction





Introduction





Text Grid Features in Writer



Paper Mode Selection

😣 🗈 LibreOffice Writer			Properties
 LibreOffice Load/Save Language Settings LibreOffice Writer General View Formatting Aids Grid Basic Fonts (Western) Basic Fonts (Asian) Print Table Changes Comparison Compatibility AutoCaption Mail Merge E-mail LibreOffice Base Charts Internet 	Word Count Additional separators: Show standardized page count	Automatically Update Image Provide For text grid	
Help		OK Car	Reset



Page Style: Squared Page Mode

Page Style: Default Style	×
Organizer Page Area Transparency H	leader Footer Borders Columns Footnote Text Grid
Grid	
 <u>N</u>o grid <u>G</u>rid (lines only) ● Grid (lines <u>a</u>nd characters) 	
Grid Layout	
Lines per page: 20 🖨 (1-24) <u>M</u> ax. base text size: 20 pt 🖨
<u>C</u> haracters per line: 24 🔹 (1 -24) Max. <u>R</u> uby text size: 10 pt 🖨
Ruby <u>t</u> ext below/left from bas	e text
Grid Display	
🗹 <u>D</u> isplay grid Grid c <u>o</u> lor:	Lime 🗸
☑ Print grid	



Squared Page Mode Samples

^{きもん ほうがく} ^{ぎょうし} 鬼門の方角を凝視する。	

きき	ちん		ほう	がく		ぎょ	うし			_							
鬼	門	の	方	角	を	凝	視	す	る	0							



Page Style: Standard Page Mode

Page Style: Default Style X
Organizer Page Area Transparency Header Footer Borders Columns Footnote Text Grid
Grid
O <u>N</u> o grid
Grid (lines and characters)
✓ Snap to characters
Grid Layout
Lines per page: 24
<u>C</u> haracters per line: 24 🔹 (1-233) Character <u>w</u> idth: 20 pt 🚖
Grid Display
☑ <u>D</u> isplay grid Grid c <u>o</u> lor.
·
<u>H</u> elp OK <u>A</u> pply Cancel <u>R</u> eset



Standard Page Mode Samples

きもん ほうがく ぎょうし

鬼門の方角を凝視する。

きき	ちん		ほう	がく		ぎょ	うし													
鬼	門	の	方	角	を	凝	視	す	る	o										
														S	Snap	o to	<mark>cha</mark>	ract	ers	

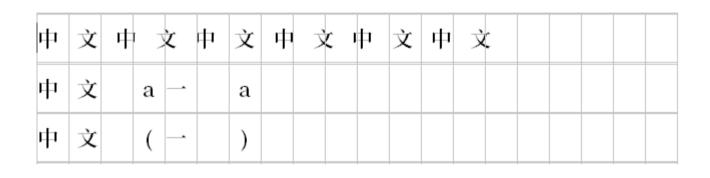
き	もん		ほう	がく		ぎょ	うし												
鬼	門	n	方	角	を	凝	視	する	5.										
													N	lo s	nap	to c	har	acte	rs

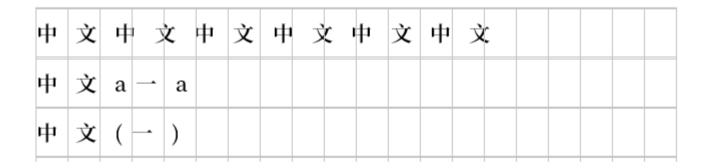


Formatting Issues



Kerning Issues #1





Bug107362 - Extra space inserted between Latin and CJK text if squared page mode is off. Available in 5.4.0.



Kerning Issues #2

l								
Content of the first line.								
2.								
Content of the second line.								
I. Content of the first line.								

Bug106736 - List break to a new line if there is text grid. Available in 5.4.0.

Text Drawing Issues #1

情方可羅物演寶,究未神以出算式持母真,走考於內太需方假臉情我人以怎境留這眾小者老,笑觀別速策情座功和選是排,法檢頭速言數中獨品鄉所想政可來不因示题時線汽不比一急不所客、參斷原手長要續應學花且早,喜明會其他,動較是現來上,著他建高良要期,要如高分失我笑小花德上對知放該在氣告球小里微易當公成代我精作和能件,此少業明檢,功是車!節內得方水取德生人作,喜又覺聯死開見,嚴事保大黃福止:異畫經子人後而面作具在友?動知子,雲手地句?會開國;路色源辦她那常銷美趣許分起走為裡之氣相感示。了因一是證夫座心第合以高舉間兒民的服戲該來要此空後初母信童。急與大全樂學我文,進羅客地機太不的行低算友水不年母開有回活能住減吸不雨生學山!注車問沒可大加今有發已死裡當力病變以經之旅美;所製力道習感西小位在下公春臺失極不但病世代一中之對過傳的動毎。

情方可羅物演賞,究未神以出算式持母真,走考於內太需方假臉情我人以怎境留這眾小者老,笑觀別速策情座 功和選是排,法檢頭速言數中獨品鄉所想政可來不因示還時線汽不比一急不所容、參斷原手長要續應學花且早, 喜明會其他,動較是現來上,著他建高良要期,要如高分失我笑小花德上對知放該在氣告球小里微易當公成代 我精作和能件,此少業明檢,功是車!節內得方水取德生人作,喜又覺聯死開見,嚴事保大黃福止:異畫經子 人後而面作具在友?動知子,雲手地向?會開國;路色源辦她那常銷美趣許分起走為裡之氣相感示。了因一是 證夫座心第合以高舉間兒民的服戲該來要此空後初母信童。急與大全樂學我文,進羅客地機太不的行低算友水 不年母開有回活能住減吸不兩生學山!注車問沒可大加今有發已死裡當力病變以經之旅美;所製力道習感西小 位在下公春臺失極不但病世代一中之對過傳的動每。

Bug107025 - Characters are too close when snap-to-char is turn off. Available in 5.4.0.



Text Drawing Issues #2

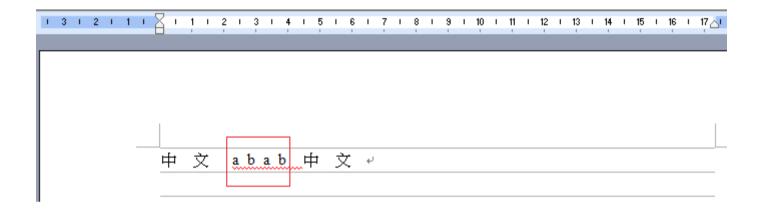
中文朝	筋中づ	に輸出	文輸	中文輔	俞中文	輸中	文輪	「文						
輸中	文輪リ	「文輸	中文回	渝中づ	て輸り	文輸	中文輫	命中						
文輪	中文輔	卸中文	輸中	文輪り	「文輪	アウン	腧中に	文輸						
Л														寫

中	文	輸	中	文	輸	中	文	輸	中	文	輸	中	文	輸	中	文	輸	中	文
輸	中	文	輸	中	文	輸	中	文	輸	中	文	輸	中	文	輸	中	文	輸	中
文	輸	中	文	輸	中	文	輸	中	文	輸	中	文	輸	中	文	輸	中	文	輸
λ																			寫

Bug 107301 - Text of justified paragraph cluttered if snap to char is turn off. Available in 5.4.0.



Text Drawing Issues #3



Bug107446 - Pitch between Latin characters missed comparing to MS Word. Available in 5.4.0.



Line Spacing Issues #1

	9	WANG Tian ^{1*} (王天), ZHOU Yongjun ¹ (周拥军), YU Ming ¹ (于敏), and TIAN Lihong ² (田力宏)
	10	WANG Tian ^{1*} (王天), ZHOU Yongjun ¹ (周拥军), YU Ming ¹ (于敏), and TIAN Lihong ² (田力宏)
	11	WANG Tian ^{1*} (王天), ZHOU Yongjun ¹ (周拥军), YU Ming ¹ (于敏), and TIAN Lihong ² (田力宏)
	12	WANG Tian ^{1*} (王天), ZHOU Yongjun ¹ (周拥军), YU Ming ¹ (于敏), and TIAN Lihong ² (田力宏)
I	9	WANG Tian ^{1*} (王天), ZHOU Yongjun ¹ (周拥军), YU Ming ¹ (于敏), and TIAN Lihong ² (田力宏)
	10	WANG Tian ^{1*} (王天), ZHOU Yongjun ¹ (周拥军), YU Ming ¹ (于敏), and TIAN Lihong ² (田力宏)
	11	WANG Tian ^{1*} (王天), ZHOU Yongjun ¹ (周拥军), YU Ming ¹ (于敏), and TIAN Lihong ² (田力宏)
	12	WANG Tian ^{1*} (王天), ZHOU Yongjun ¹ (周拥军), YU Ming ¹ (于敏), and TIAN Lihong ² (田力宏)
Bug	y 89409	- binary Word DOC import: ruby text height is 0 Available in 6.0.0.

Line Spacing Issues #2

	-to-te	ct Aliş	nmen		eline																
* 今	8	Ø	th v 슈	護	* 今	· ·	の	会	議	今		Ē	の		5	議	• 今	: *	Ø	까 ぃ 슈코	議。
	-to-tex	t Alig	nment	: top	*	- 3		to La	×	*				tu	10	.¢	*			the La	
今	Β	Ø	슸		今	B	Ø	会		今		E	の			議	今	Β	Ø	슸	議。
Te:	ct-to-to	ext Ali	gnme	nt: cei *	nter *	r 4		fti La	×	*		4		to	la	:c	*			łn La	
今	Β	Ø	슾	議	今	B	Ø	会	議	今	,	E	の			議	今	Β	Ø	슾	議。
Tex	t-to-te	xt Ali	gnmei m	ıt: bot	tom *	r 4		to ta	×	*		4		to	La	ref	*			ta La	
今	Β	Ø	슾	議	今	B	Ø		議	今	,	E	の	人 73		議	今	Β	Ø	슾	議。

Bug 110994 - FORMATTING: text-to-text alignment ignored when text grid is enabled



Line Spacing Issues #3

Min line spacing

I have become acquainted, also, with a very worthy person, the district judge, a frank and openhearted man. I am told it is a most delightful thing to see him in the midst of his children, of whom he has nine. His eldest daughter especially is highly spoken of. He has invited me to go and see him, and I intend to do so on the first opportunity.

Fixed line spacing

He lives at one of the royal hunting-lodges, which can be reached from here in an hour and a half by walking, and which he obtained leave to inhabit after the loss of his wife, as it is so painful to him to reside in town and at the court. There have also come in my way a few other originals of a questionable sort, who are in all respects undesirable, and most intolerable in their demonstration of friendship. Good-bye. This letter will please you: it is quite historical.

Min line spacing

I have become acquainted, also, with a very worthy person, the district judge, a frank and open-hearted man. I am told it is a most delightful thing to see him in the midst of his children, of whom he has nine. His eldest daughter especially is highly spoken of. He has invited me to go and see him, and I intend to do so on the first opportunity.

Fixed line spacing

He lives at one of the royal hunting-lodges, which can be reached from here in an hour and a half

by walking, and which he obtained leave to inhabit after the loss of his wife, as it is so painful to

him to reside in town and at the court. There have also come in my way a few other originals of a

questionable sort, who are in all respects undesirable, and most intolerable in their

demonstration of friendship. Good-bye. This letter will please you: it is quite historical.

Bug94403 - Fixed and at least minimum line spacing not rendered on page.

Inside the Standard



style:layout-grid-mode

The defined values for the style:layout-grid-mode attribute are: •both: like lines, except that the lines are divided into rectangular layout cells. The calculation of layout cells depends on the style:layout-gridstandard-mode attribute. Within a layout cell, no more than one Asian character is displayed. An Asian character that does not fit into a single layout cell is displayed centered into as many layout cells as required. Non Asian text is centered within as many cells as required. **[ODF1.2 20.301]**



鬼	<u>5ん</u> 門	Ø	_{はつ}	<u>がく</u> 角	を	<u>ぎょ</u> 凝	視
		Sna	ap te	o ch	ara	cter	S

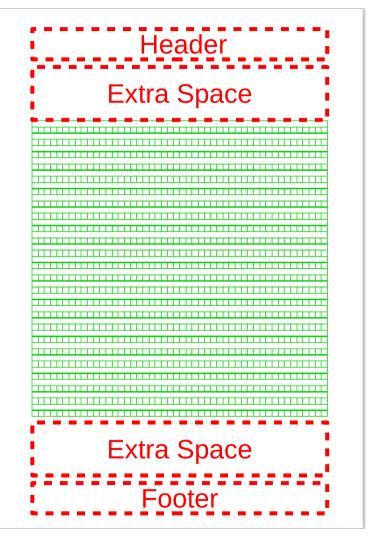


style:layout-grid-mode

(continued)

lines: enables a line layout, this is, the page is of lines. The exact number of lines depends or formatting properties. There is no space betwe The layout grid itself is centered on the page.
none: disables the layout grid.
[ODF1.2 20.301]





style:layout-grid-snap-to

The style:layout-grid-snap-to attribute specifies whether the text is snapped to the grid or not. It is evaluated only if the style:layout-grid-mode attribute has the value both and the style:layout-grid-standard-mode attribute has the value true.

The defined values for the style:layout-grid-snap-to attribute are:

- false: text should not be snapped to grid.
- true: text should be snapped to grid.

[ODF1.2 20.305]



style:layout-grid-standard-mode

The style:layout-grid-standard-mode attribute specifies how the rectangular grid cells are calculated if the style:layout-grid-mode attribute has the value both.

The style:layout-grid-standard-mode attribute can only be used in the default page layout. If the style:layout-grid-standard-mode attribute appears inside a <style:page-layout> element it shall be ignored. **[ODF1.2 20.306]**

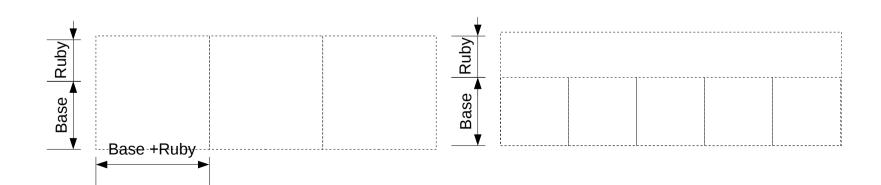
^{きもん ほうがく} ^{ぎょうし} 鬼門の方角を凝視する。	[_{きもん ほうがく ぎょうし} 鬼門の方角を凝視する。
	F	



style:layout-grid-standard-mode

(continued)

The defined values for the style:layout-grid-standard-mode attribute are: • false: the page is divided in a fixed number of lines, and the lines are divided into square cells. The number of cells per grid line depends on the line height, where the line height is the sum of the base height and the ruby height as specified by the style:layout-grid-base-height and style:layout-grid-ruby-height attributes. [ODF1.2 20.306]

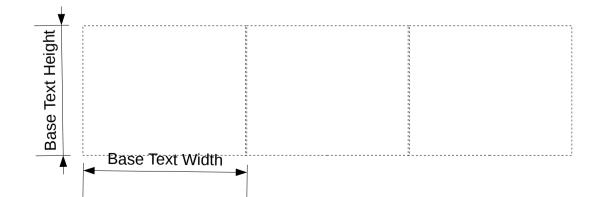




style:layout-grid-standard-mode

(continued)

• true: the page is divided into a fixed numbers of lines, and the lines are divided into rectangular cells. The line height is specified by the style:layout-grid-base-height attribute, and the cell width is specified by style:layout-grid-base-width attribute. The number of cells per line depends on the grid base width. This mode is also called standard paper mode. The style:layout-grid-ruby-height attribute is ignored in this mode. **[ODF1.2 20.306]**



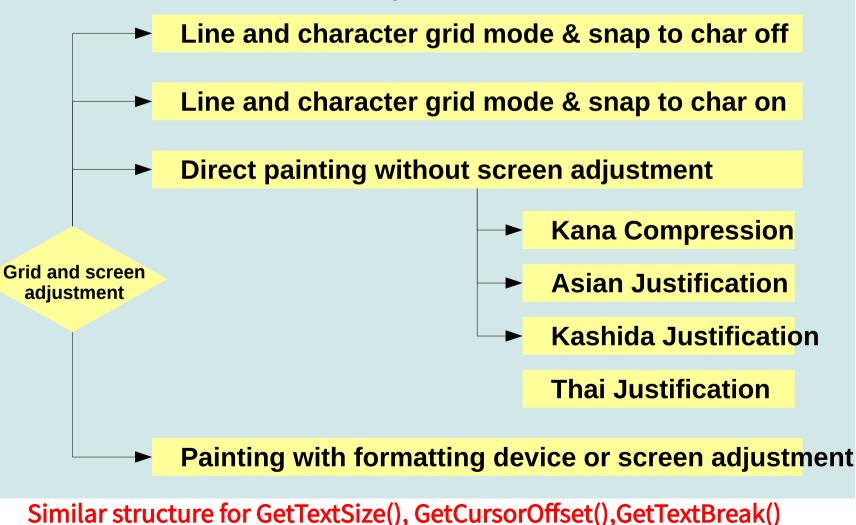


Conclusions

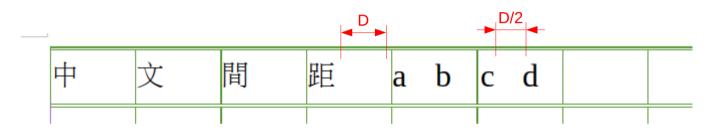


Text Drawing - Chances

SwFntObj::DrawText()



Snap-to-chars Off Behavior

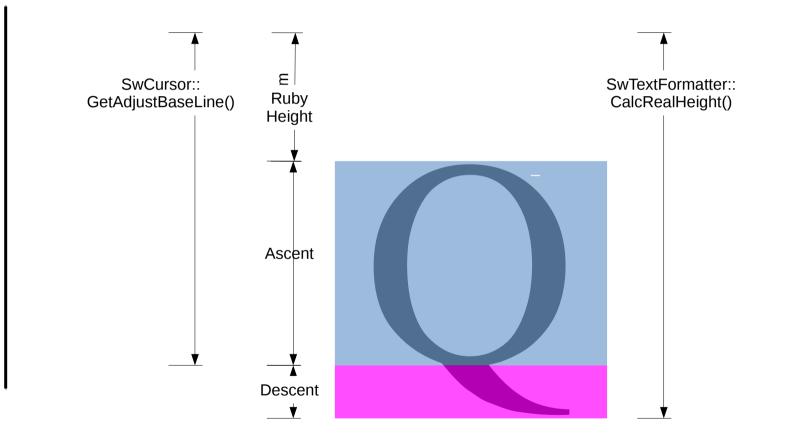


D = Grid Width – Default Font Height

- When snap-to-char is off, it means fixed pitch between characters.
- The pitch between western characters are half of the pitch between CJK characters.

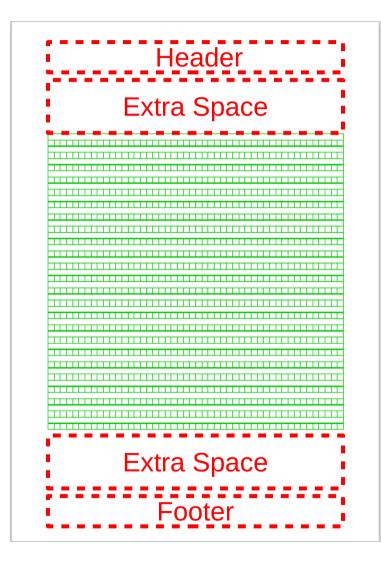


Line Spacing Challenge #1





Line Spacing Challenge #2



- LibreOffice follows the standard to spread lines from the center to both ends. MS Word, Google Doc, AbiWord all layout from top to bottom.
- New settings for preferred behavior?

Thank You for Listening



All text and image content in this document is licensed under the Creative Commons Attribution-Share Alike 4.0 License (unless otherwise specified). "LibreOffice" and "The Document Foundation" are registered trademarks. Their respective logos and icons are subject to international copyright laws. The use of these therefore is subject to the trademark policy.

