Improved Fontwork Text

**Placement** 

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# The original bug:

Old Impress:

PowerPoint:

New Impress: (After my fix)

more/less space between characters

same space between characters





#### The problem:

  First: Calculated char positions (and how many fit into a line) in a non curved rectangle. (shorter/longer lines?)

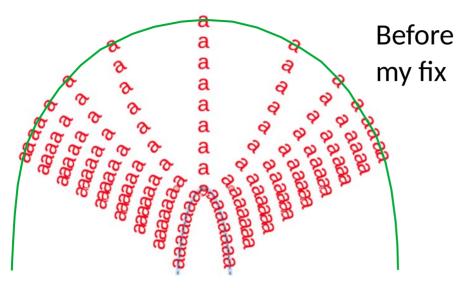


- Calculated only 1 curve. (Marked with red line) Character positions are good there.
- Characters on other lines, are calculated as they would be on the original line.
   (Same amount of chars fit into every line)
   Character position are scaled.
   (added their normal vector \* line difference)





# It is not exactly scaling.



After my fix



- Inner (blue) curve form is very different from outer curve (green)
- Every curve must be calculated.
- Rewrote character position (and alignment) calculation





### The impossible case:

Align to Top

Inner curves usually become shorter.

0 / negative long curves?



MS PowerPoint avoid this, by not allow to set vertical alignment. Automatically use that result only outer curves.

 LibreOffice allow setting vertical alignment to result inner curves.

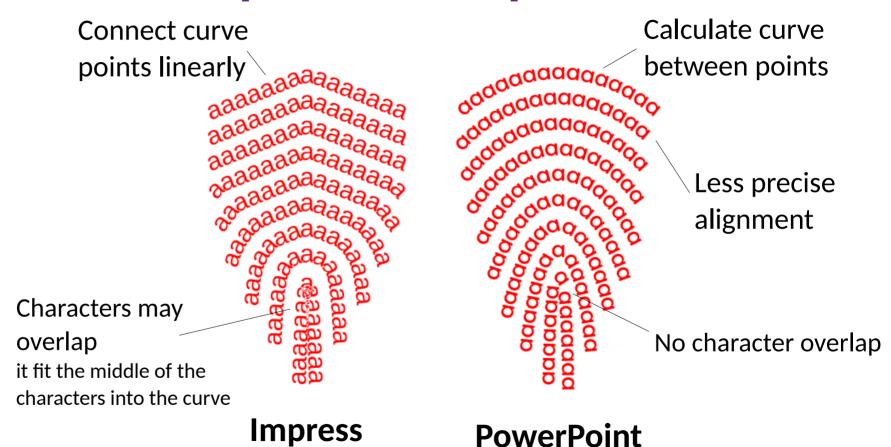


 My fix works as long as the text fit in the shortened curve. If text not fit, I tried to keep the way it was before. (to avoid regressions)





#### Future improvement possibilities:





## Thank you!

By Attila Szűcs















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