



LibreOffice
The Document Foundation

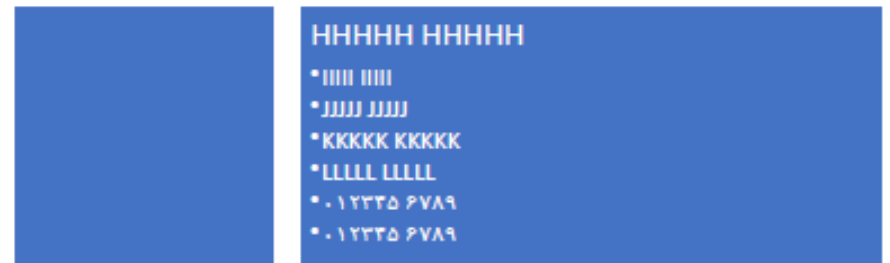
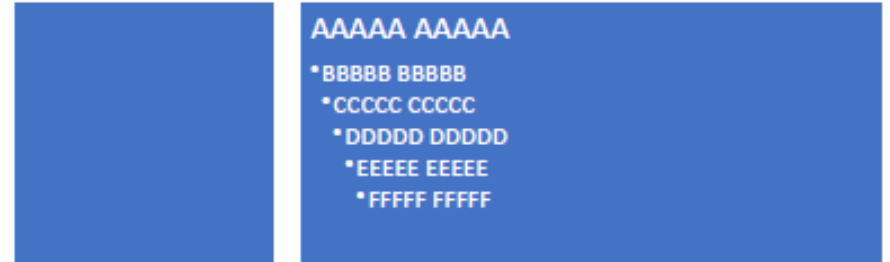
SmartArt Support for LibreOffice

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Introduction

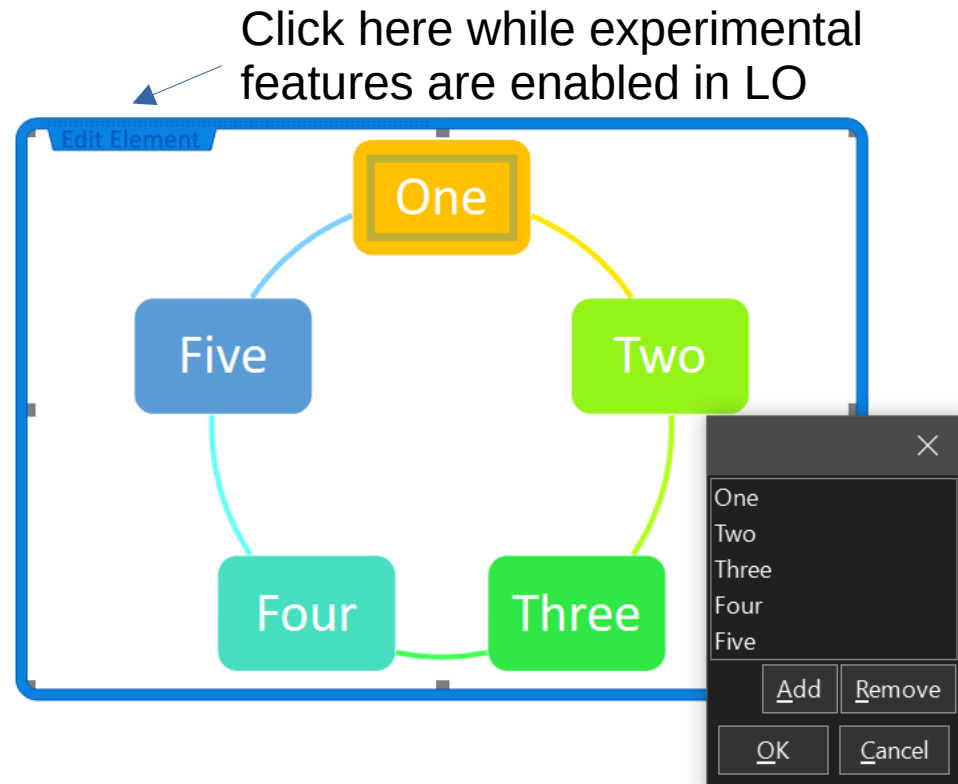
- SmartArt was introduced in MS Office 2007
- Nice way to create complex diagrams with little effort
 - Modifiable, customizable
 - The same content can be presented in different layouts
- LibreOffice had basic support for SmartArt from the beginning
- Since then, SmartArt import received many improvements
 - Thanks to Miklos Vajna and Regina Henschel!
 - See FOSDEM 2019 presentation from Miklos
- I will discuss the detailed status

Import / Display

- The import is very good
- Works nearly perfect
 - The compatibility has been tested with MS Office Online
 - Tested with all the possible layouts
 - Few bugs with ~200 different layout and configuration

Saving / Editing

- Saving back to OOXML
 - OK when no modification is done
 - Converting to shape is a one-way road
- Editing is very limited
 - Considered experimental only
 - Not stable at all
 - Saving back is not possible
 - Not usable for production
- An effort to improve that in progress
 - Armin Le Grand

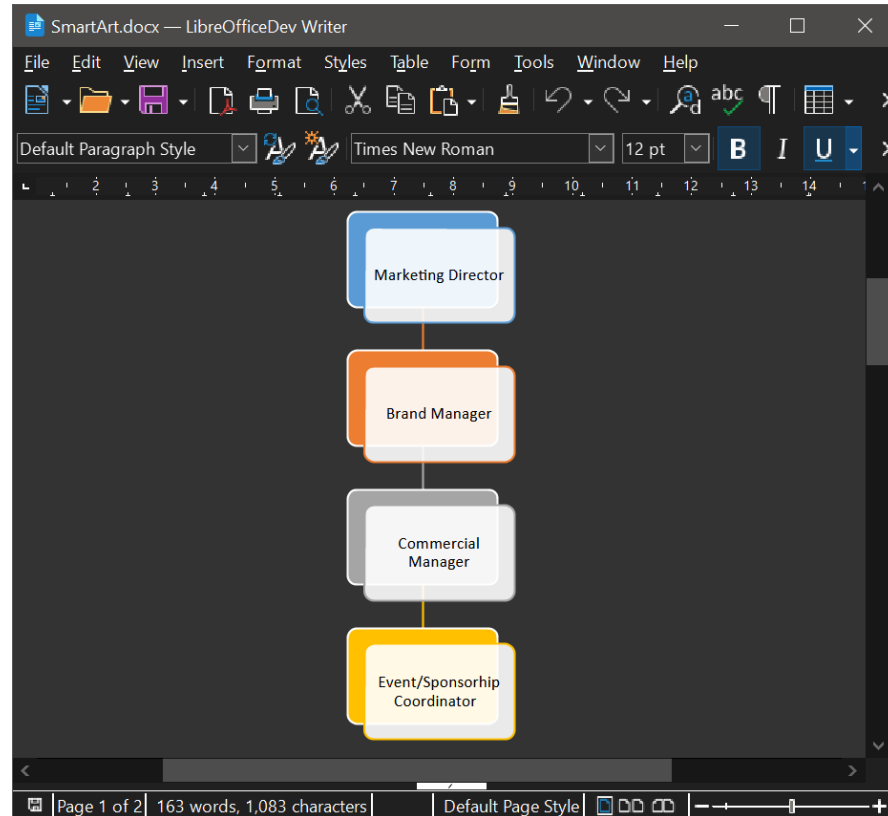


ODF Compatibility

- ODF compatibility is nonexistent
- It is not possible to save SmartArt to ODF
 - Saving will do a conversion to shapes
 - There is no going back!
- Development path
 - Define similar constructs in ODF
 - Create routines for loading, saving and conversion

Application Support

- Writer ✓
- Impress ✓
- Calc ✗

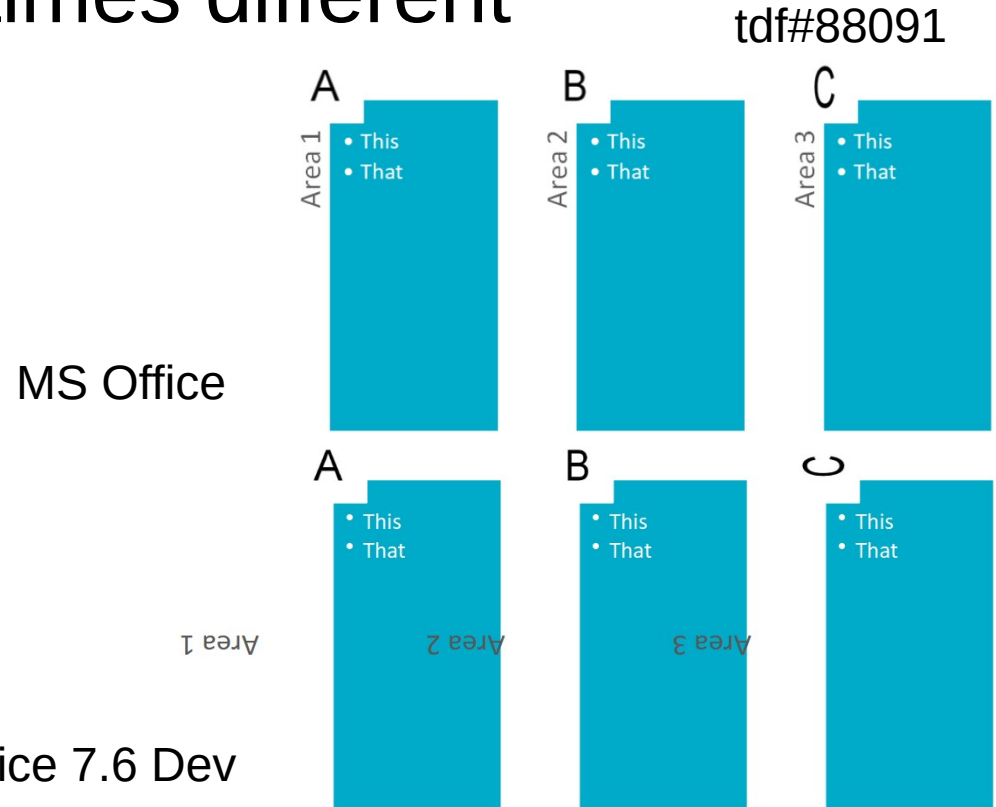


Remaining Bugs

- Remaining issues: ~25 bugs in metabug tdf#106547
 - Minor problems
 - Text rendering (positioning / spacing / font / color / rotation)
 - Rendering defects
 - Not always happening
 - Old MS Office support (versions prior to MSO 2016)
 - 3d layouts

Text Rendering

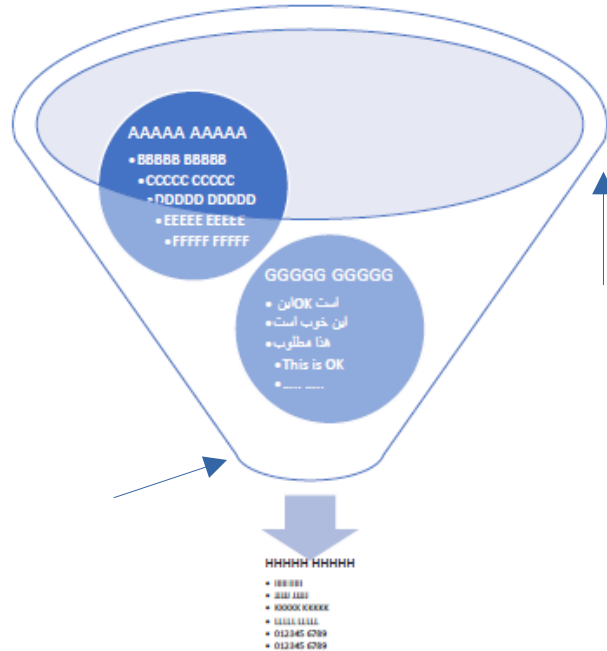
- Text rendering is sometimes different
 - Paragraph spacing
 - Character spacing
 - Exact font metrics
 - Text Color
 - Rotation



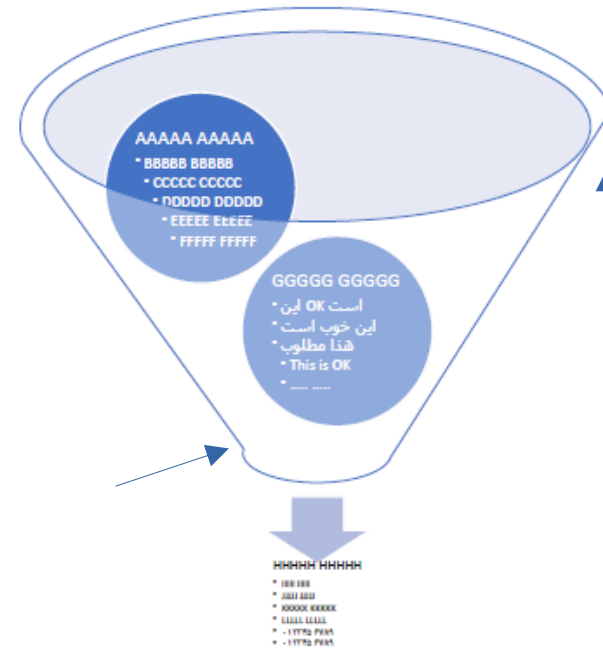
Minor Rendering Problems

Funnel

PowerPoint



LibreOffice 7.6 Dev

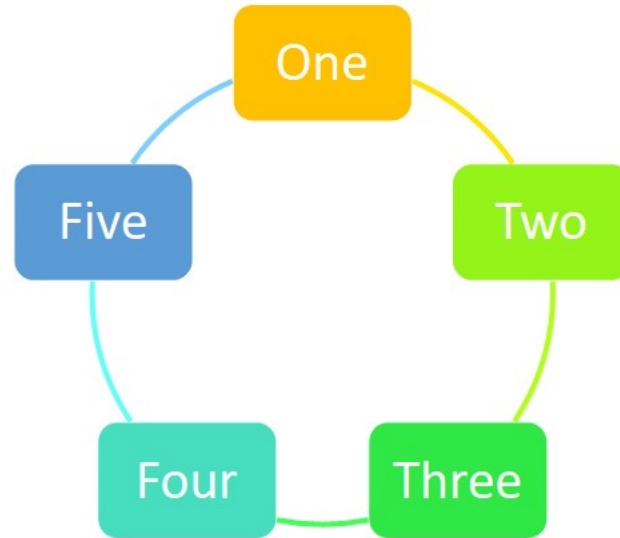


3D Layouts

- 3d layouts are not supported ✘
 - The output is still meaningful



MS Office



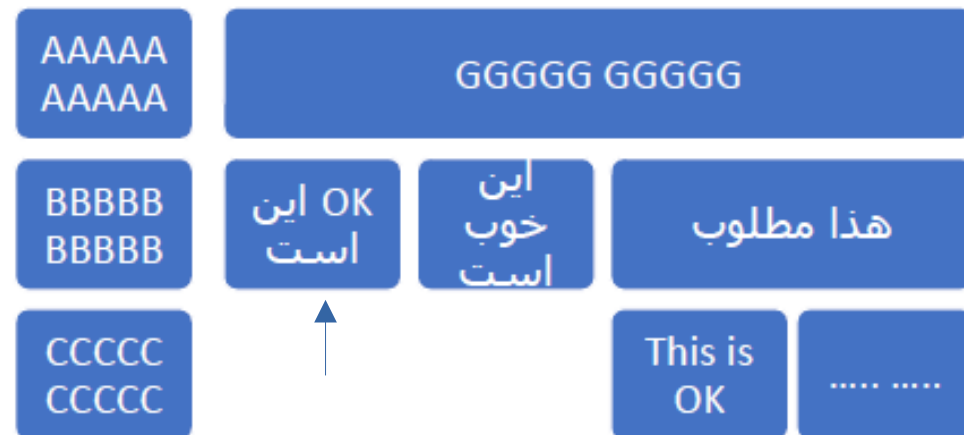
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LibreOffice sometimes does better!

- Internationalization
 - Bidirectional text



MS Office



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Questions?

- Any questions?

