Interesting Missing Features (in Impress)

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Agenda

- Master Slides Vs Layouts
- (Gradient) Fill Angles
- Gradient color for text and lines
Some Background
Master Slides Vs Layouts
Master Slides Vs Layouts

- **Master Slide**
  
  "A slide master is the *top slide in a hierarchy* of slides that stores information about the theme and slide layouts of a presentation, including the background, color, fonts, effects, placeholder sizes, and positioning."

- **Layouts**
  
  "Slide Layouts are slides that have *placeholders* on them that you can use to add content."

- **Normally**, one set of layouts of a theme would have one Master Slide
Master Slides Vs Layouts

In reality

- Layouts can contain some *look* related objects making a layout as a child of master slide
- Some times very few elements are reused from the master slide in a layout
Master Slides Vs Layouts

- **Master Slides**
  - Some times called Slide Designs
  - Master Pages/Slides take care of the elements and the placeholders to some extent

- **Layouts**
  - LibreOffice Layouts are *strict* in acting like placeholders
  - These are *hard-coded* and not very easy to change.
  - Stored in layoutlist.xml
  - Ref: Vishv, GSOC 2013
When we import, e.g. pptx

We **merge** the layout used by a slide with its master slide and create a libreoffice's master page.

Which also means, if there are layouts and/or master slides which are **unused**, they are **dropped**.
Master Slides Vs Layouts

- When we export, to e.g. pptx
  - We create master slides with the existing master pages
  - We create predefined layouts (from LibreOffice's layouts) for the master slides
Master Slides Vs Layouts

- Problems
  - Multiple Master Slides
  - Too many Layouts – number of master slides * 12
  - All layouts are standard and are copies
  - Dropping of master slides and layouts
  - No relation between original layouts and exported layouts
    (Relation is probably between original layouts and exported master slides!)

- Template-Documents break heavily especially while inter-operating
Master Slides Vs Layouts

- Solutions
  - Implementing File specific Layouts in LibreOffice
    - At least makes it easier for users to create custom-file-specific layouts (in its true sense)
    - Wouldn't really work while importing layouts from, say, pptx

- Implementing Child-Master Slides ('n' levels)
  - Gives the maximum flexibility
  - Would probably have a *tricky* UI to create and edit those
  - Might get confusing to the user
Master Slides Vs Layouts

- Round-tripping Master Slides and Layouts from original file
- Helps in inter-operating
- While minimizing the impact on LibreOffice core features

Slide 1

MP1
L1+M1 Merged

Export

Round Tripped

M1
L1
L2
M2
L3

MP1
L1+M1 Merged

Dummy Layout

Slide 1
While Importing, we might need additional intelligence to not round trip the Merged Master Slide.

- M1
  - L1
  - L2
- M2
  - L3

MP1 L1+M1 Merged

Round Tripped

Import

M1+L1 Merged

Slide 1

MP1 L1+M1 Merged

Dummy Layout

Slide 1
Gradient Angle Fill
Gradient Fill Angles

LibreOffice Gradient Fill Angles

Ref: Regina's Analysis:
https://bugs.documentfoundation.org/attachment.cgi?id=115433
Gradient Fill Angles

LibreOffice (unscaled gradient angles)
Gradient Fill Angles

Scaled gradient angles

45°

Scaled Angles
Gradient Fill Angles

Solutions

- Implement “scale” feature for Gradient Fills
  - Requires, probably, additional attributes in the ODF file
  - Relatively easier (?)

- Implement SVG's fill in ODF 1.2
Gradient Fill for Text, Lines, ...
Gradient Fill for text, lines...

- Gradients for Text
- Automatically adjusts the gradient (to a line)

Click to add title
- Hello World!!
Hello........................................long line.....................

Click to add title
- Hello World!!..........................
Hello........................................long line.................
Gradient Fill for text, lines...

- Multi-stop gradients
- Gradients for lines

Click to add title

- Nice Gradient Color...
- Multi-stop gradients as well.....
Gradient Fill for text, lines...

- Gradients for lines of shapes
- Both area fill and line fill
Gradient Fill for text, lines...

- Why we need it
  - Looks pretty, more features, ...
  - More importantly, Organization's branding materials

- What is required
  - Gradients for Text
  - Gradients for Lines
  - Multi-stop Gradients

- Current work
  - Some work by Synerzip to support multi-stop gradients
    (yet to be merged?)
References

- https://support.office.com/en-us/article/What-is-a-slide-master-fe403992-0715-407a-b218-e0258c06f5de
- http://www.google-melange.com/gsoc/project/details/google/gsoc2013/vishv/5847701052719104
- TDF#90494
Thank you …

- TDF
- LibreOffice Colleagues
- Ericsson & Team members