

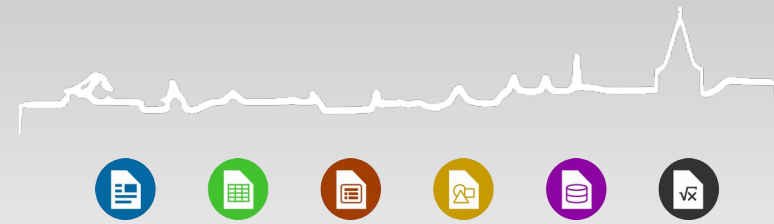


## Interesting Missing Features (in Impress)

- ▼ Muthu Subramanian  
LibreOffice Conference, 2015

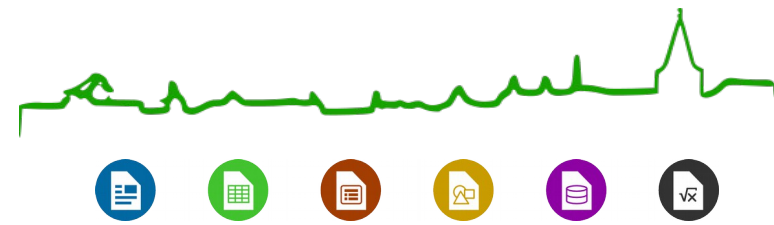


# Agenda



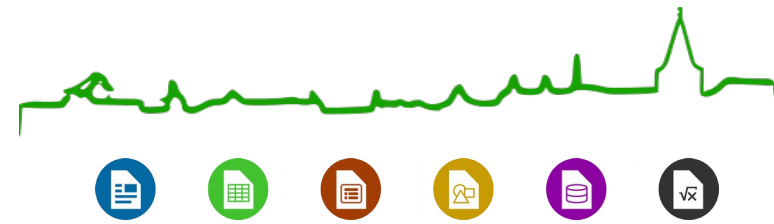
- ▼ Master Slides Vs Layouts
- ▼ (Gradient) Fill Angles
- ▼ Gradient color for text and lines





# Some Background

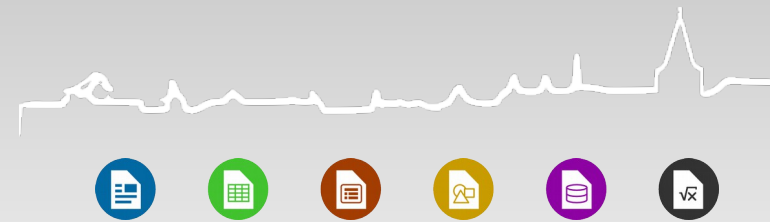




# Master Slides Vs Layouts



# 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.”

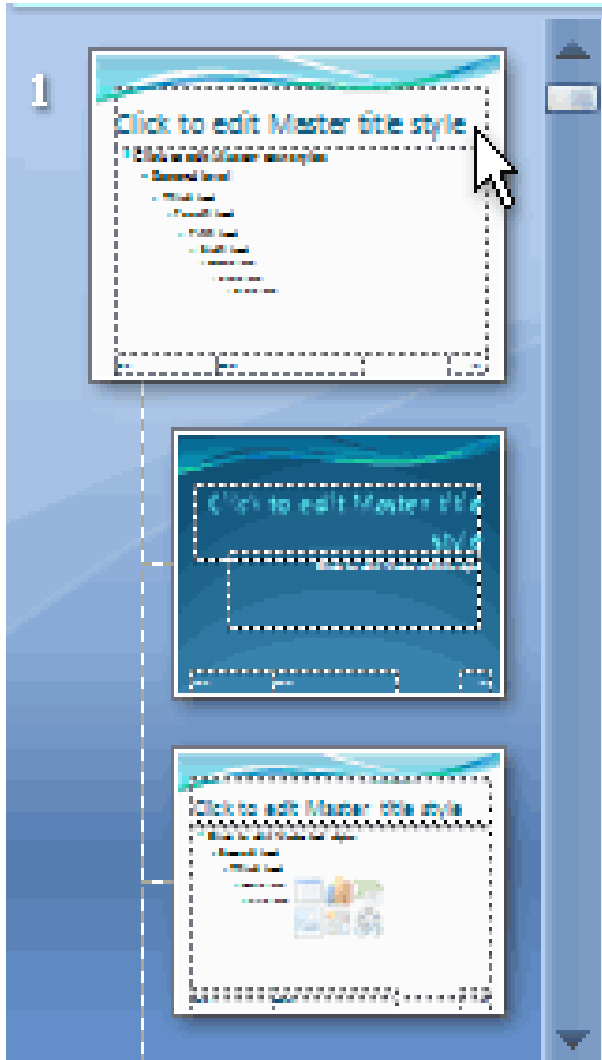
## ▼ Layouts

“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



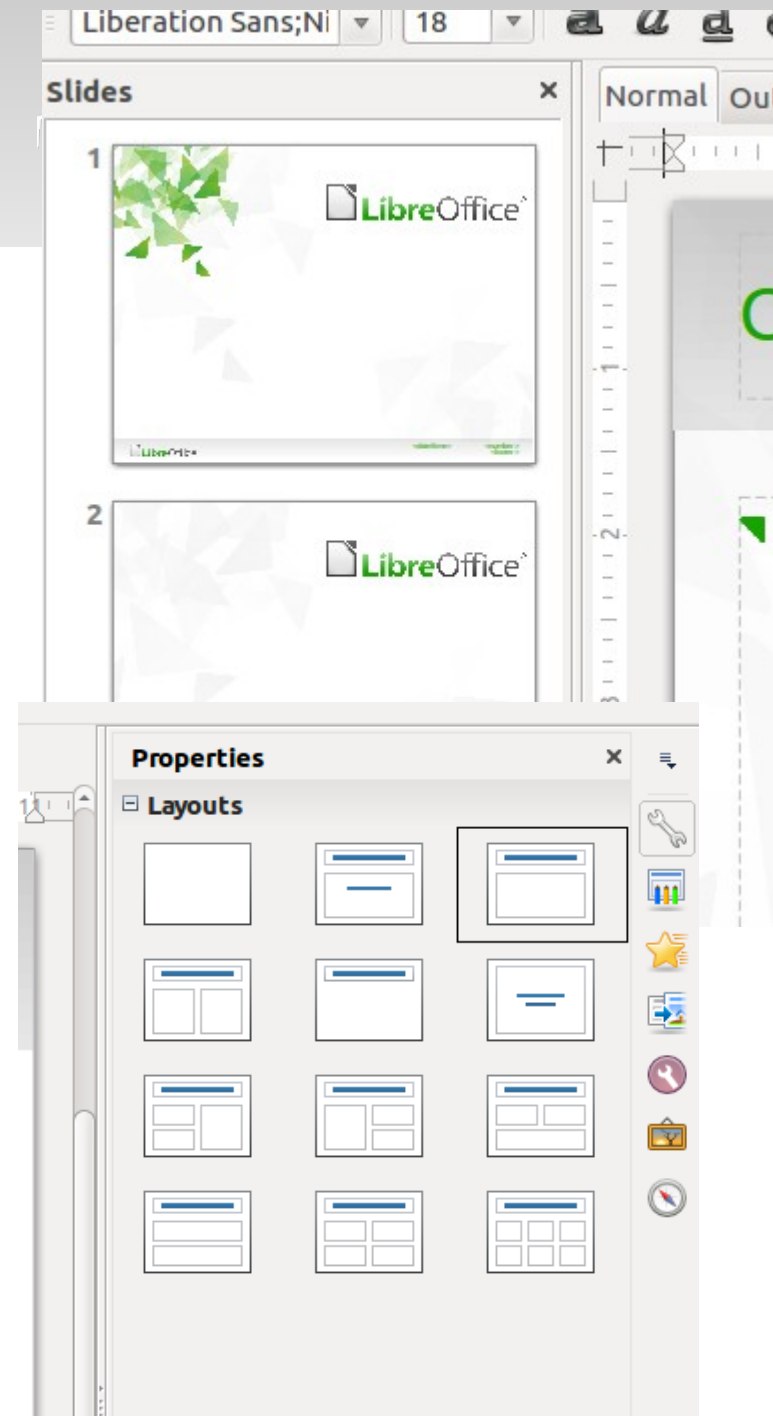
In reality

- 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

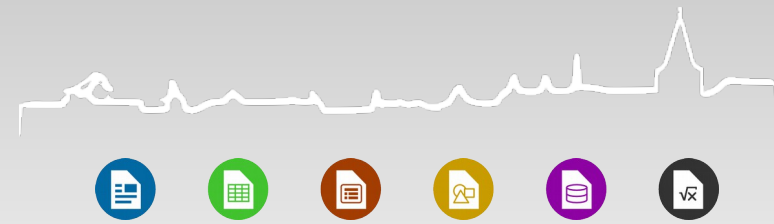


# Master Slides Vs Layouts

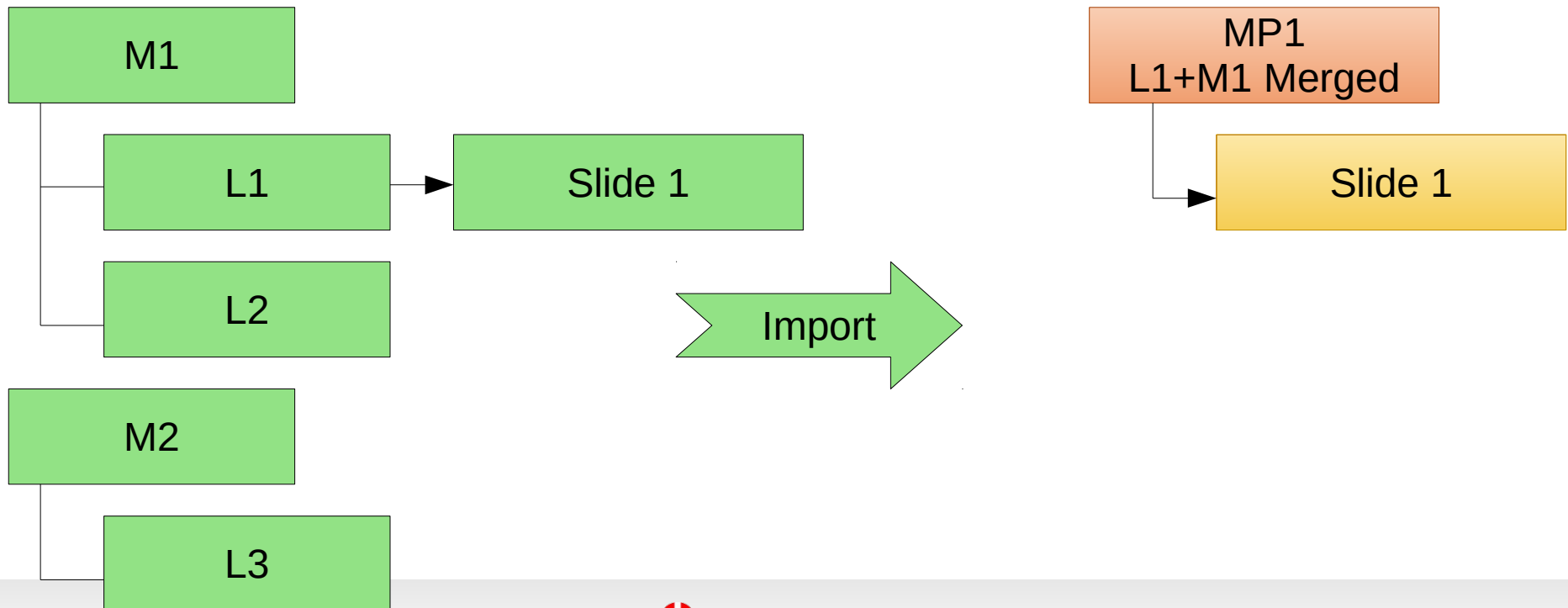
- ▼ Master Slides
  - ▼ Some times called Slide Designs
  - ▼ Master Pages/Slides take care of the elements and the placeholders to some extent
- ▼ Layouts
  - ▼ LibreOffice Layouts are *strict* in acting like placeholders
  - ▼ These are *hard-coded* and not very easy to change.
  - ▼ Stored in layoutlist.xml
  - ▼ Ref: Vishv, GSOC 2013



# Master Slides Vs Layouts

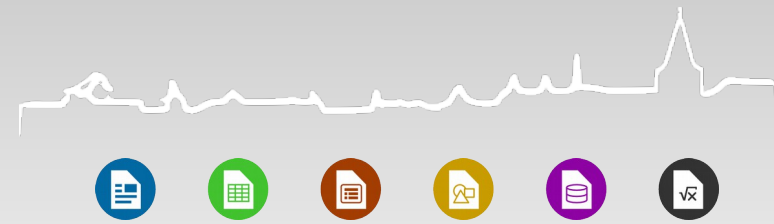


- ▼ When we import, e.g. pptx
  - ▼ We **merge** the layout used by a slide with its master slide and create a libreoffice's master page
  - ▼ Which also means, if there are layouts and/or master slides which are **unused**, they are **dropped**

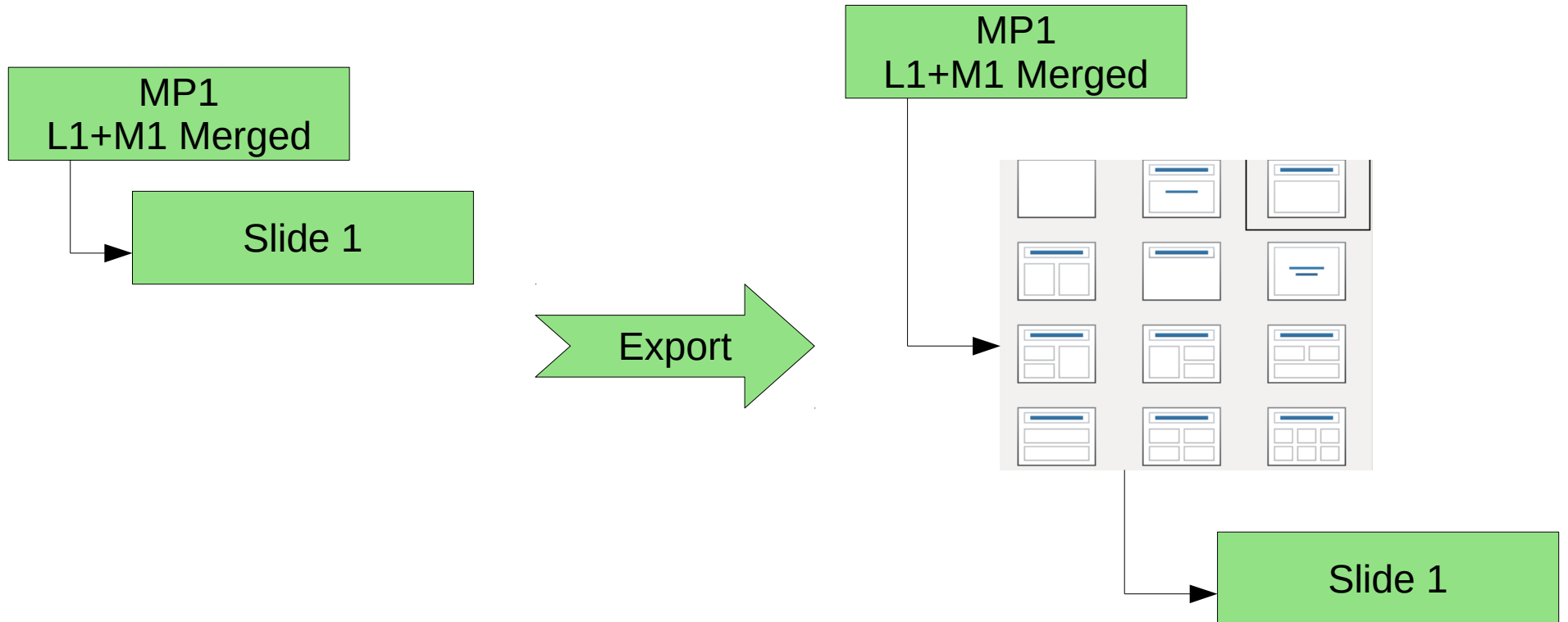




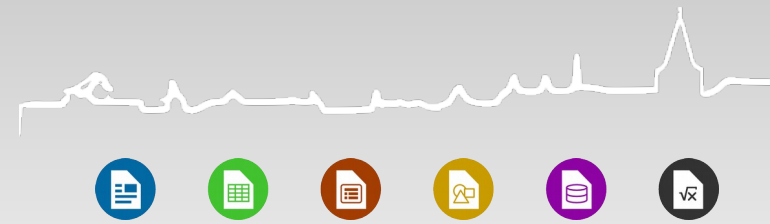
# Master Slides Vs Layouts



- ▼ 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

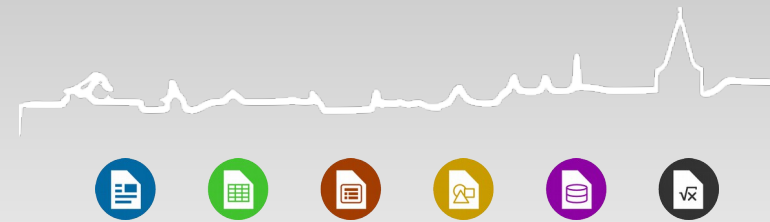


## ▼ Problems

- ▼ 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



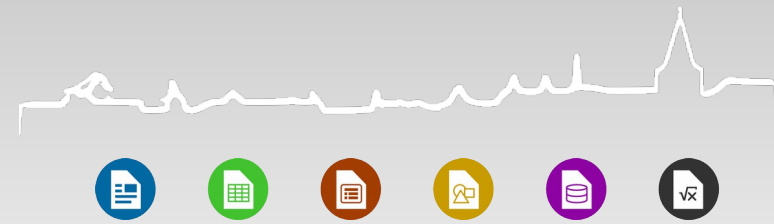
# Master Slides Vs Layouts



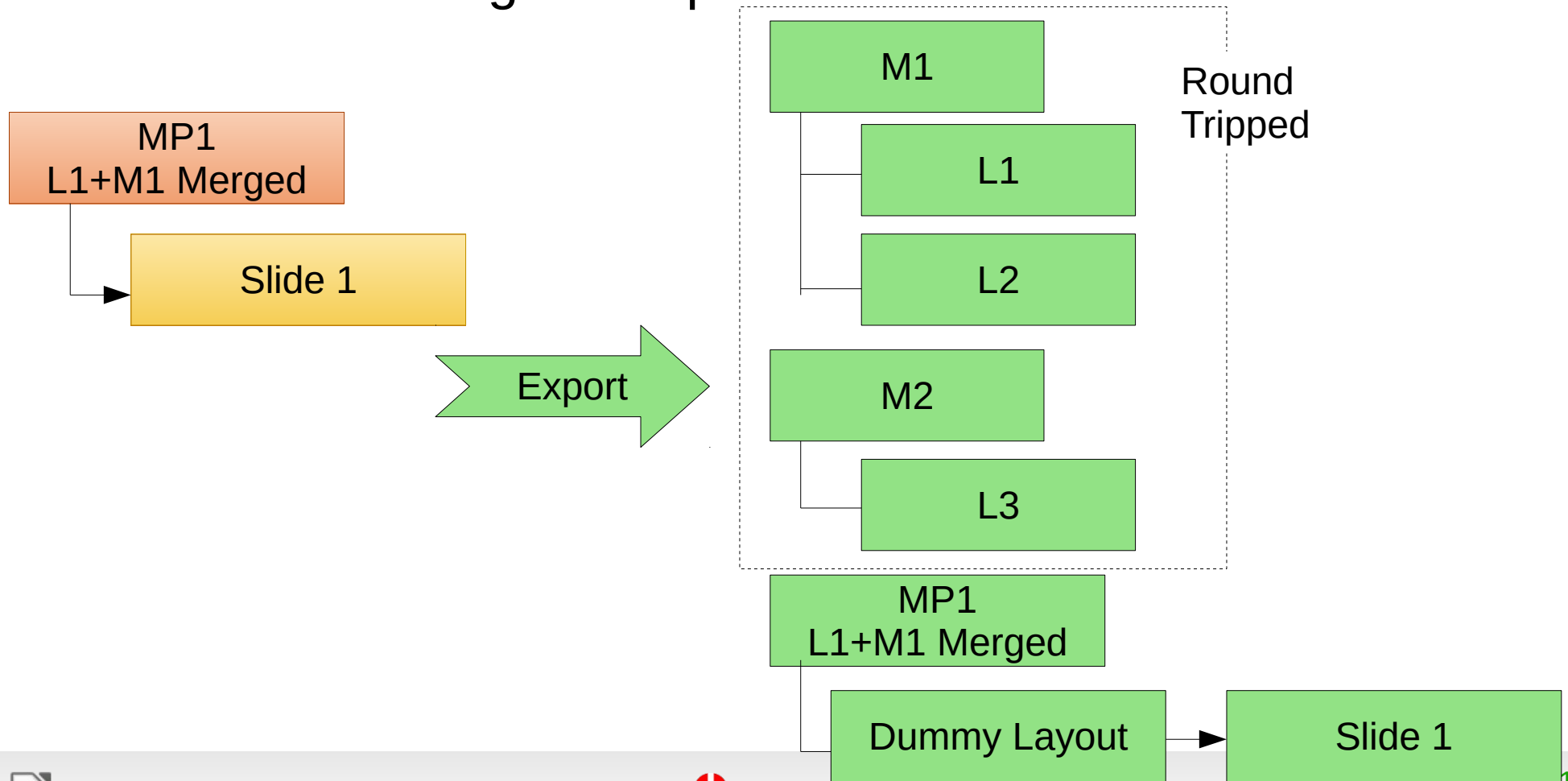
- ▼ Solutions
  - ▼ Implementing File specific Layouts in LibreOffice
    - ▼ At least makes it easier for users to create custom-file-specific layouts (in its true sense)
    - ▼ Wouldn't really work while importing layouts from, say, pptx
  - ▼ Implementing Child-Master Slides ('n' levels)
    - ▼ Gives the maximum flexibility
    - ▼ Would probably have a *tricky* UI to create and edit those
    - ▼ Might get confusing to the user



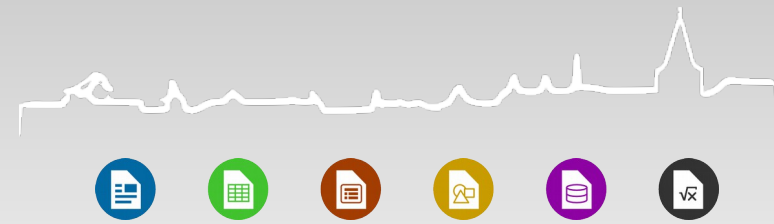
# Master Slides Vs Layouts



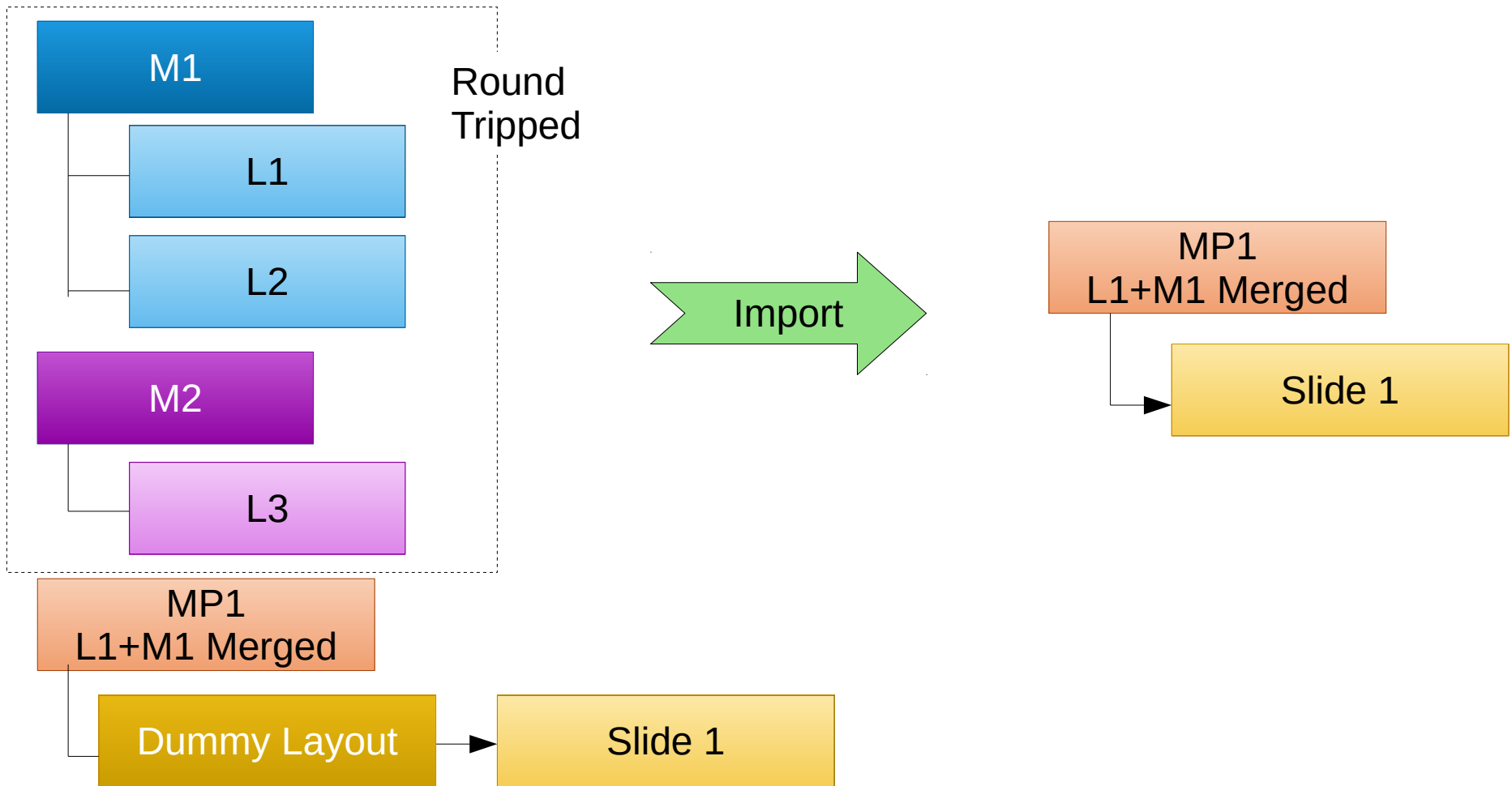
- ▶ Round-tripping Master Slides and Layouts from original file
  - ▶ Helps in inter-operating
  - ▶ While minimizing the impact on LibreOffice core features

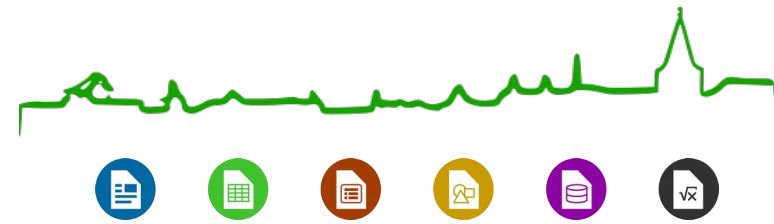


# Master Slides Vs Layouts



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

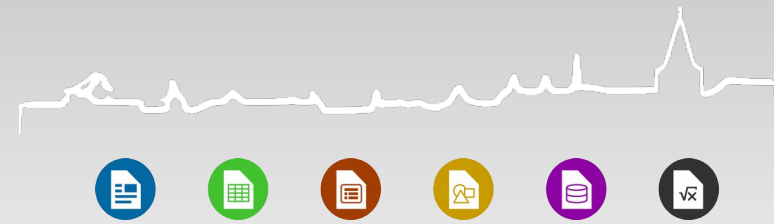




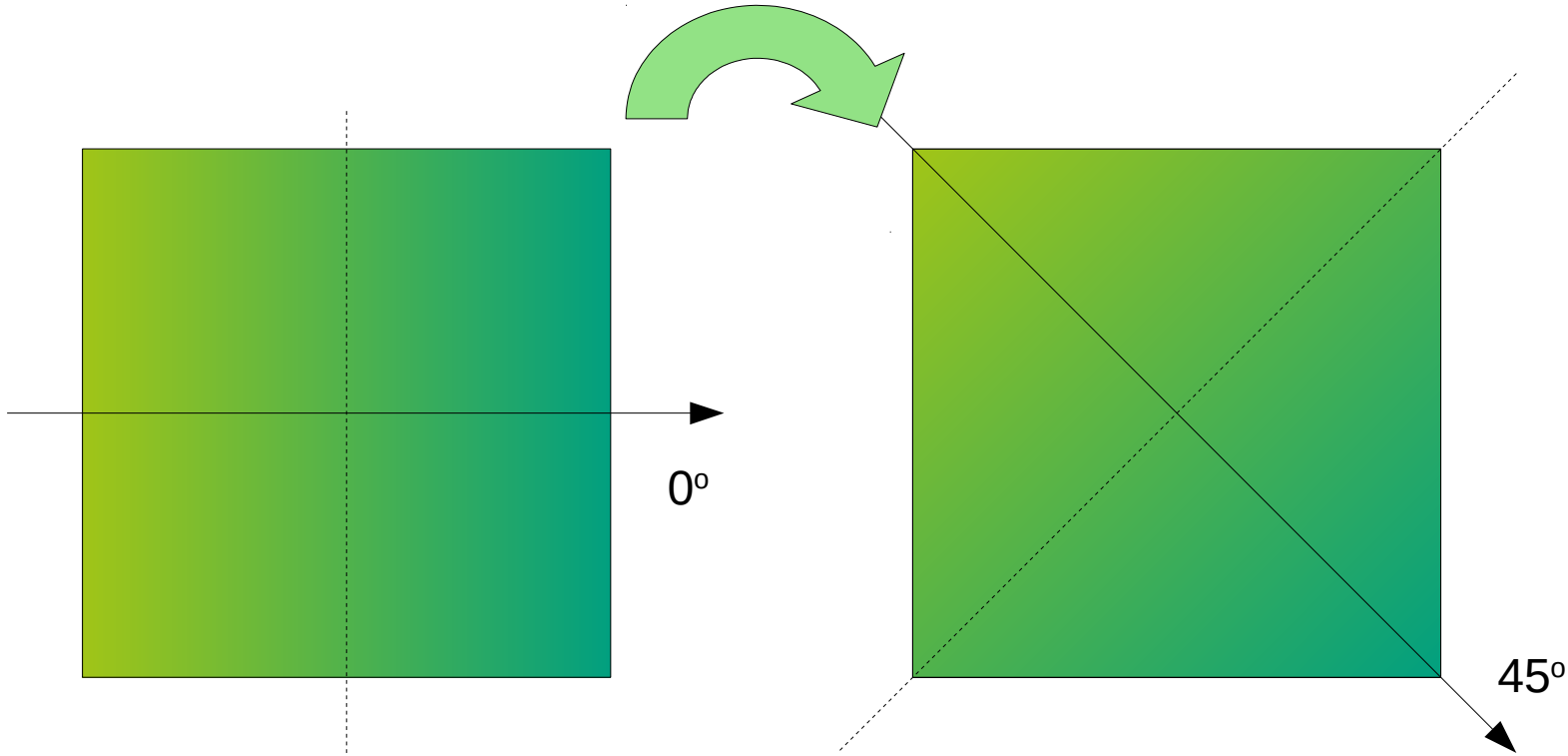
# Gradient Angle Fill



# Gradient Fill Angles



## ▼ LibreOffice Gradient Fill Angles

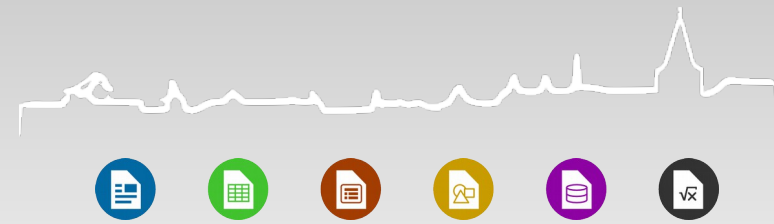


## ▼ Ref: Regina's Analysis:

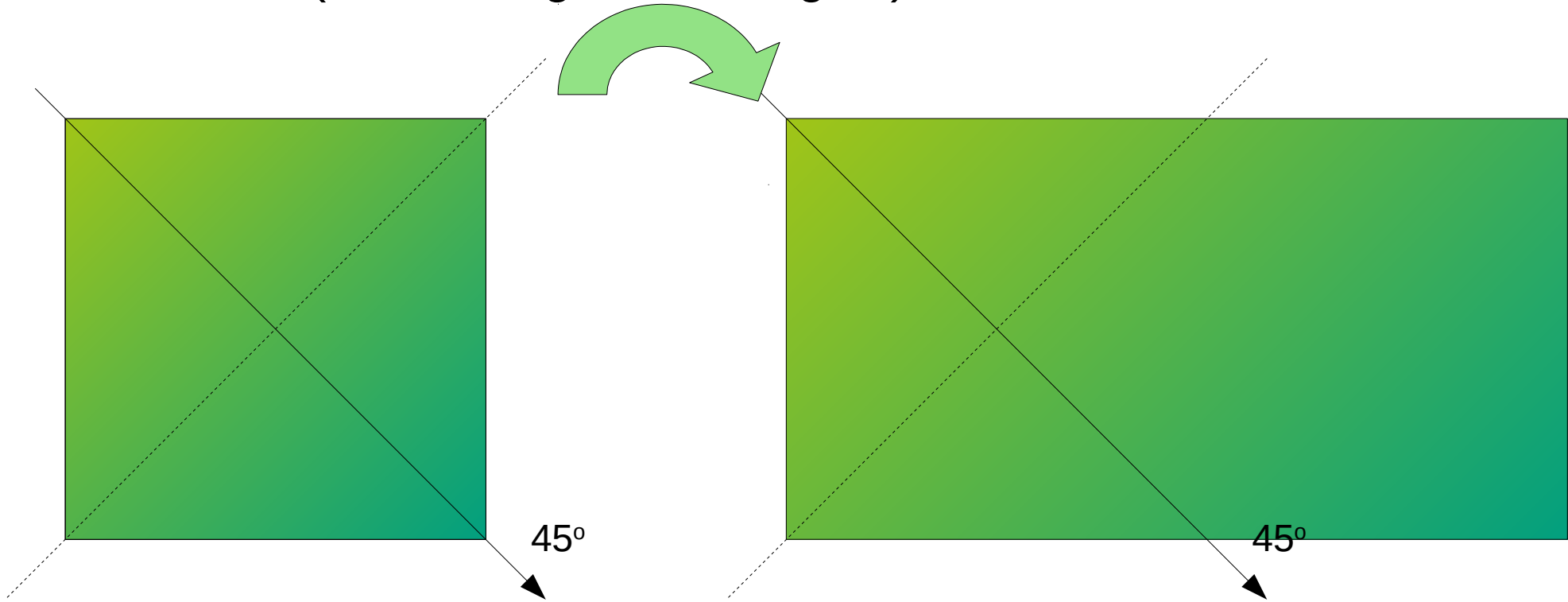
<https://bugs.documentfoundation.org/attachment.cgi?id=115433>



# Gradient Fill Angles



LibreOffice (unscaled gradient angles)

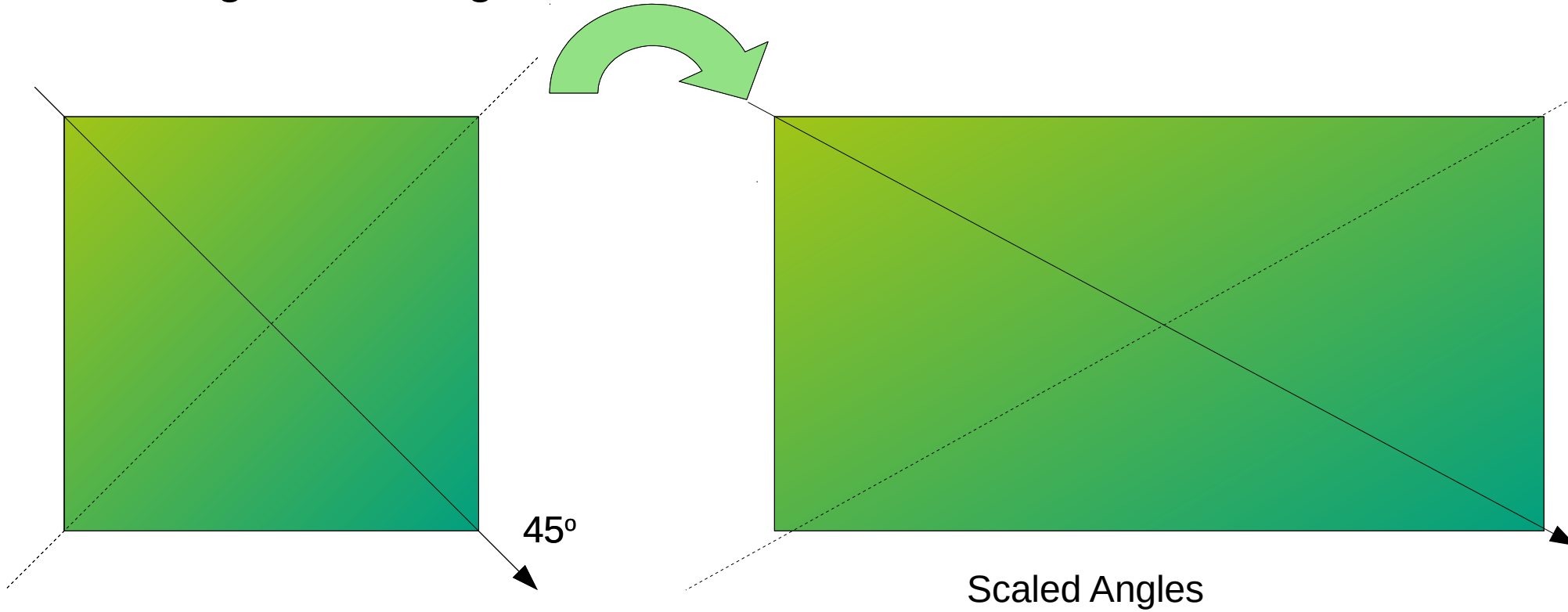


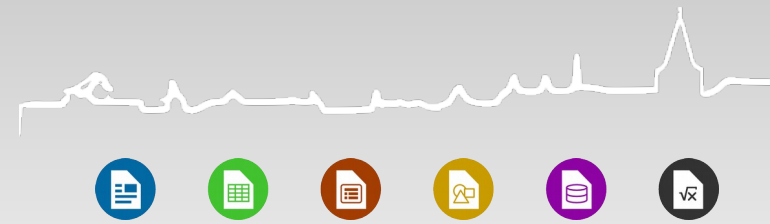


# Gradient Fill Angles



Scaled gradient angles

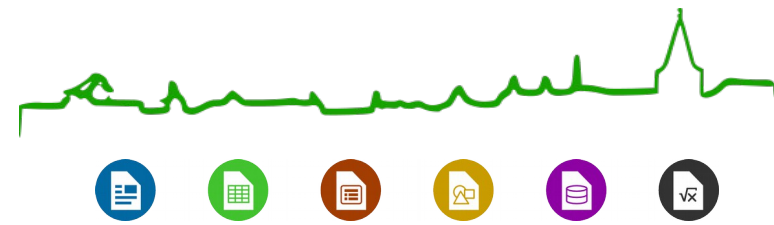




## Solutions

- ▼ 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!!.....

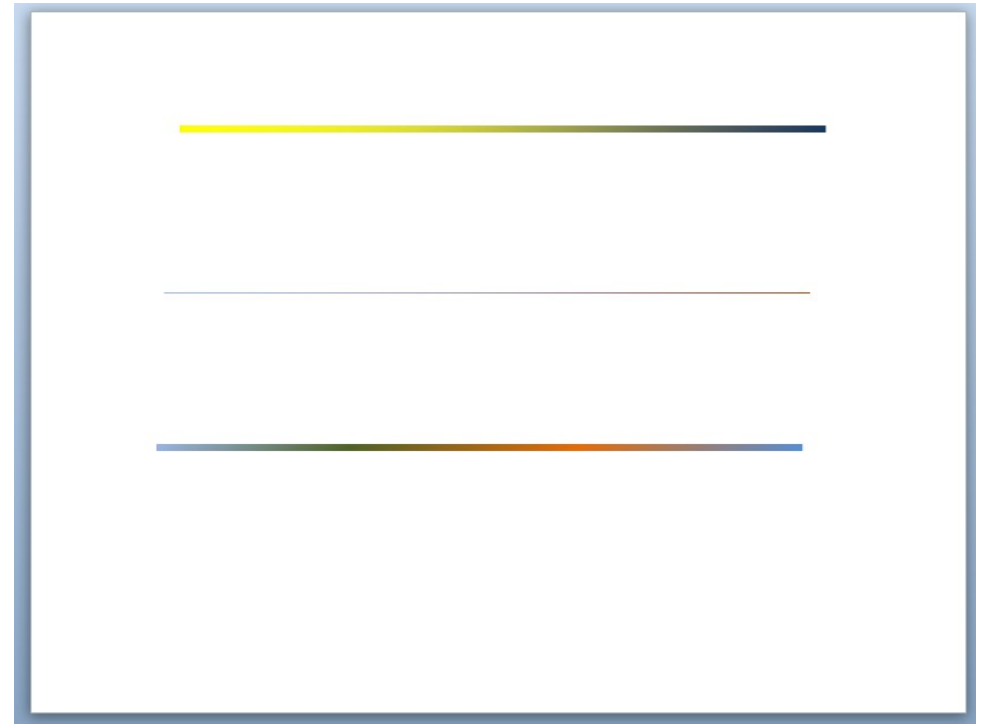
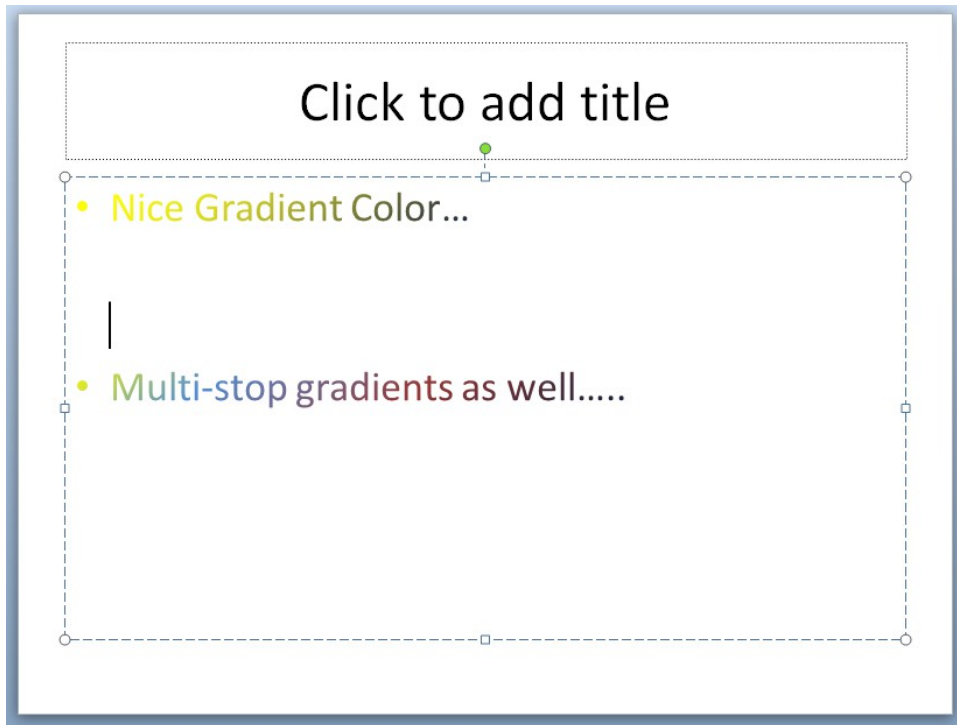
Hello.....long line.....



# Gradient Fill for text, lines...



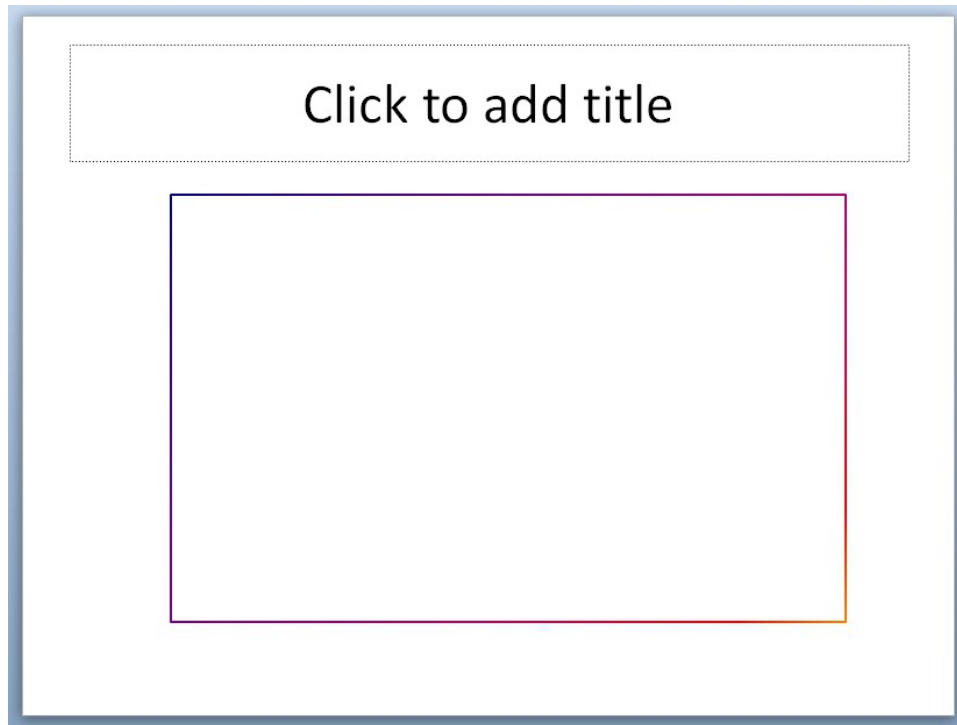
- ▼ Multi-stop gradients
- ▼ Gradients for lines



# 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

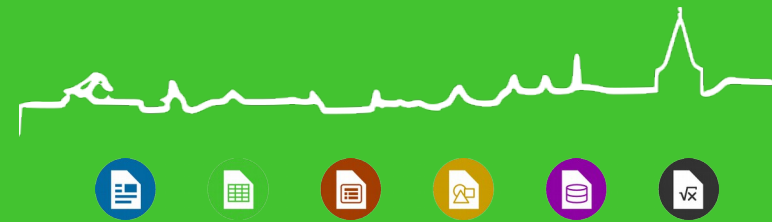


- ▼ <https://support.office.com/en-us/article/What-is-a-slide-master-fe403992-0715-407a-b218-e0258c06f5de>
- ▼ <http://study.com/academy/lesson/understanding-powerpoint-slide-masters-and-layouts.html>
- ▼ <http://www.google-melange.com/gsoc/project/details/google/gsoc2013/vishv/5847701052719104>
- ▼ TDF#90494





# Aarhus 2015 CONFERENCE



Thank you ...

- ▼ TDF
- ▼ LibreOffice Colleagues
- ▼ Ericsson & Team members



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