

# About Lanedo

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- Lanedo GmbH - founded 2009
- OSS developers from a variety of backgrounds
  - Gimp, GNOME, GTK+, LibreOffice, Networking, Telco
- Projects
  - Tracker support
  - Embedded GTK+, 60 fps
  - iOS and OS X toolkit support for .NET via Mono
  - Google Chromebook 3G/4G network drivers
  - OLPC touch screen interface
  - LibreOffice maintenance for LiMux, Munich



# Business Cases

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- Two main cases:
  - We're approached by business or governmental body
  - We apply for government tenders
- Needs are analysed to form an estimate
  - Predictable projects – fixed price
  - Wider reaching projects – time and materials

# Business Cases - Examples

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- Moonen Packaging
  - Slow VLOOKUP across files
  - Deliverable as a set of patches
- Google
  - Additional modem support in ChromeOS
    - ModemManager
  - Weekly patches and weekly reports

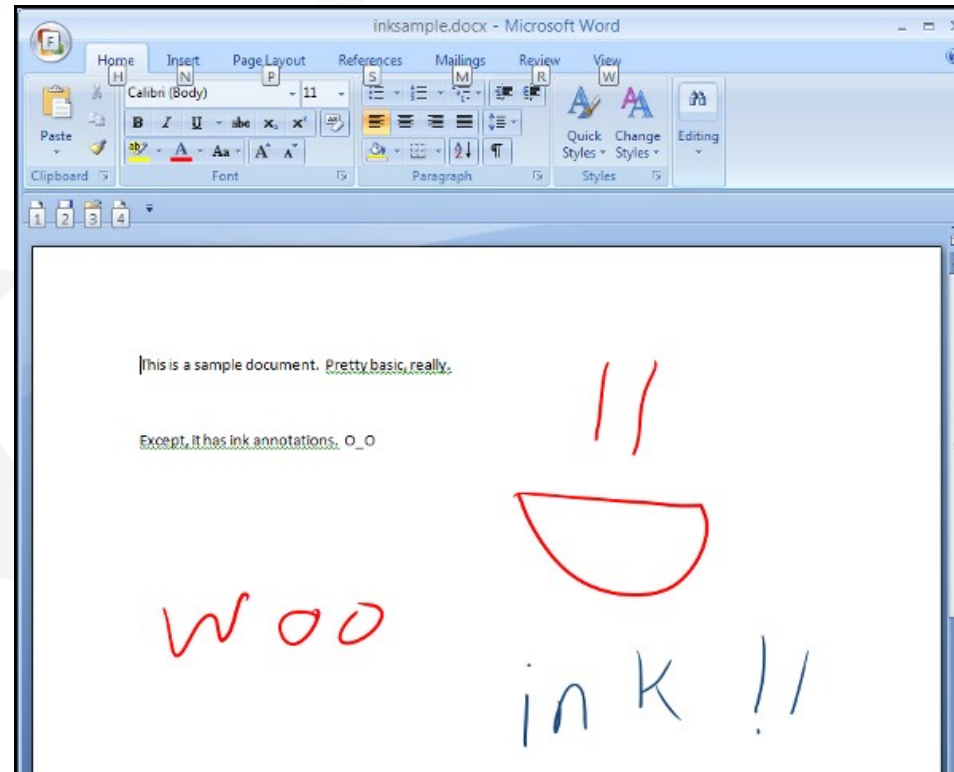
# LibreOffice Projects at Lanedo

- Ink annotation support
- LibreOffice Impress kiosk mode
- Région Île-de-France
- LiMux – City of Munich
- PDF gradient support



# Ink Annotations

- SimplifyMD – software for electronic healthcare records



# Ink Annotations - Solution

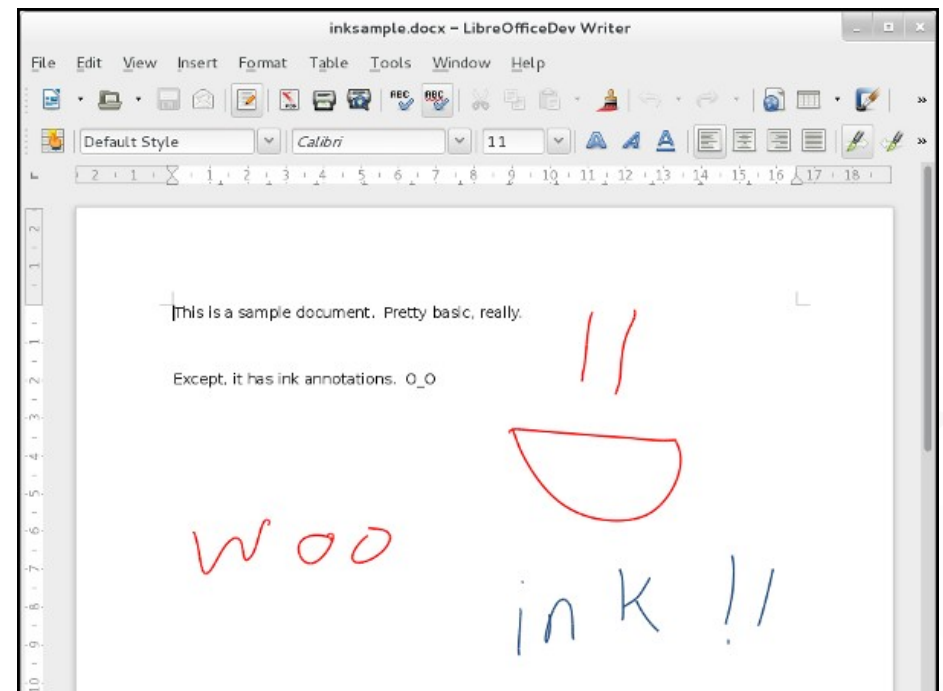
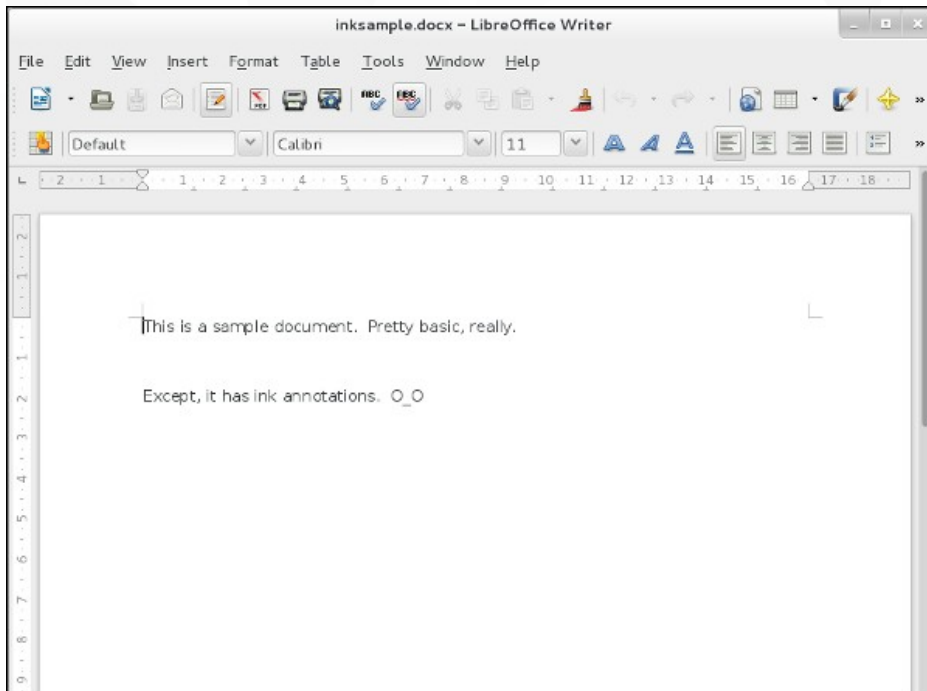
- Added support in LibreOffice file import filters
  - .docx and .rtf
- Analysed the errant files...
  - Base 64 encoded blob indicates Ink feature
  - Actual shape stored as VML path

```
:  
<o:ink  
i="ANoFHQTeAqoDASAAaAwAAAAAAMAAAAAAAABGWM9UiuaxxU  
+PBvi60uGbIgmhZAY+gEQP8AAASBFE/wFFNRsCAK3/RjUbAgC  
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CAD+AwAn1Sk0FXc4e..." annotation="t"/>  
:
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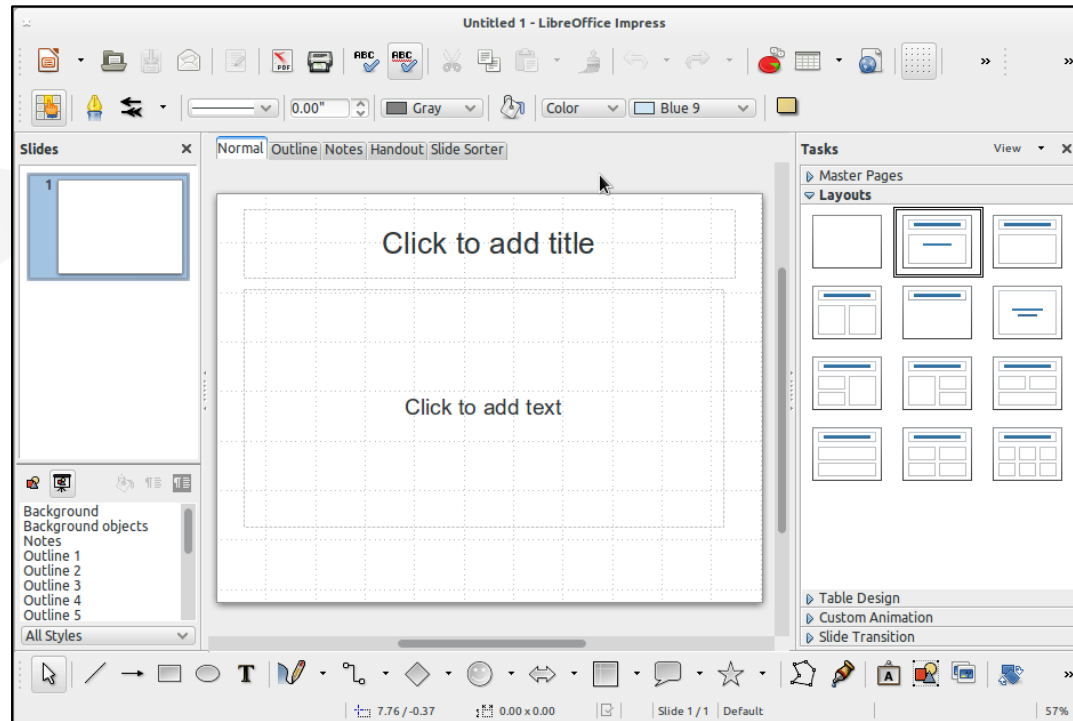
# Ink Annotations – Before & After

- Used LibreOffice's existing shape support



# Impress Kiosk - Before

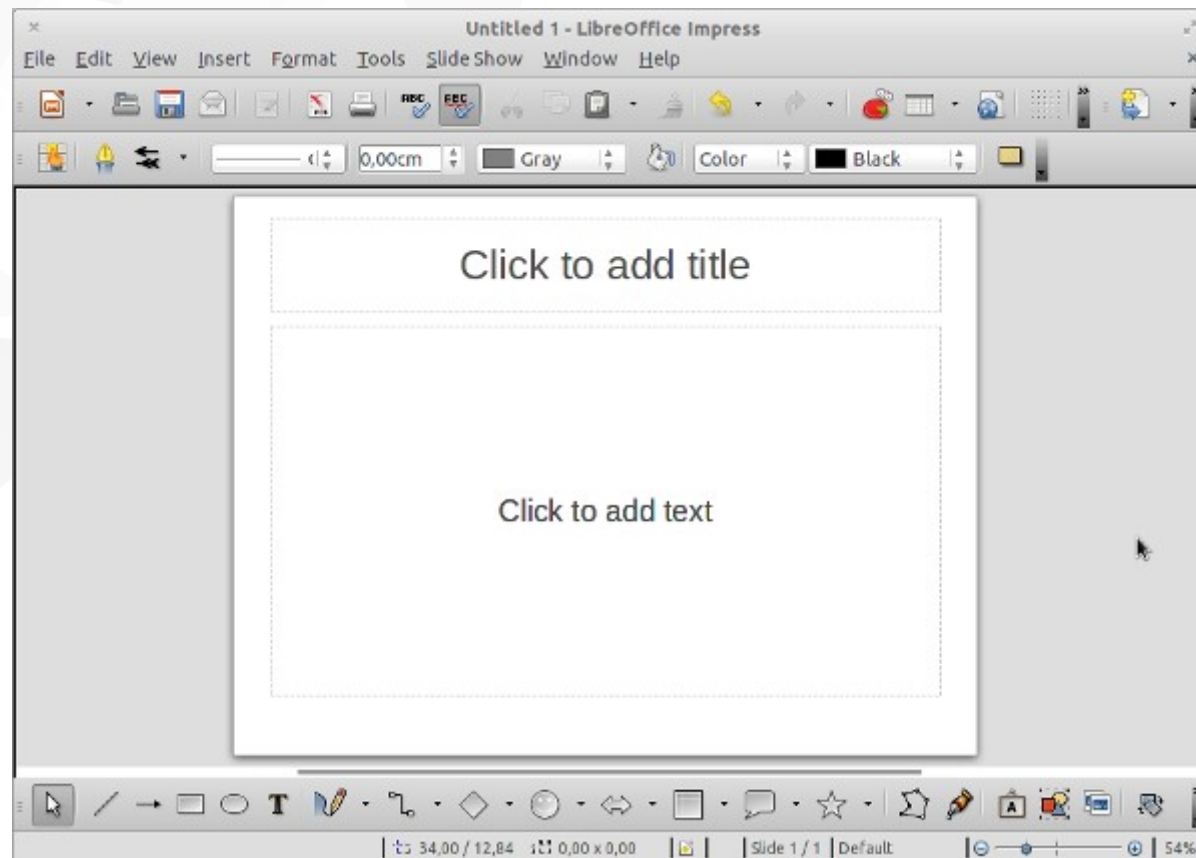
- Natural Computing – kiosk mode for Impress
  - LibreOffice 3.4
- Previously:





# Impress Kiosk - After

- Kiosk-style Impress:

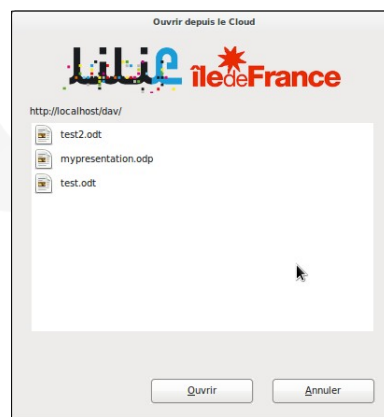
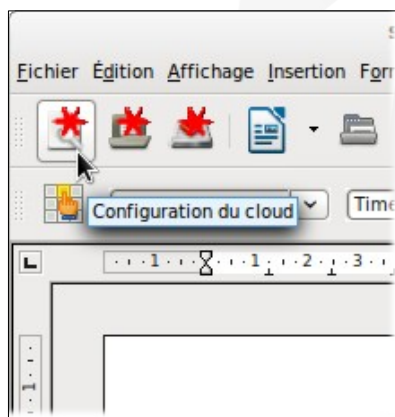
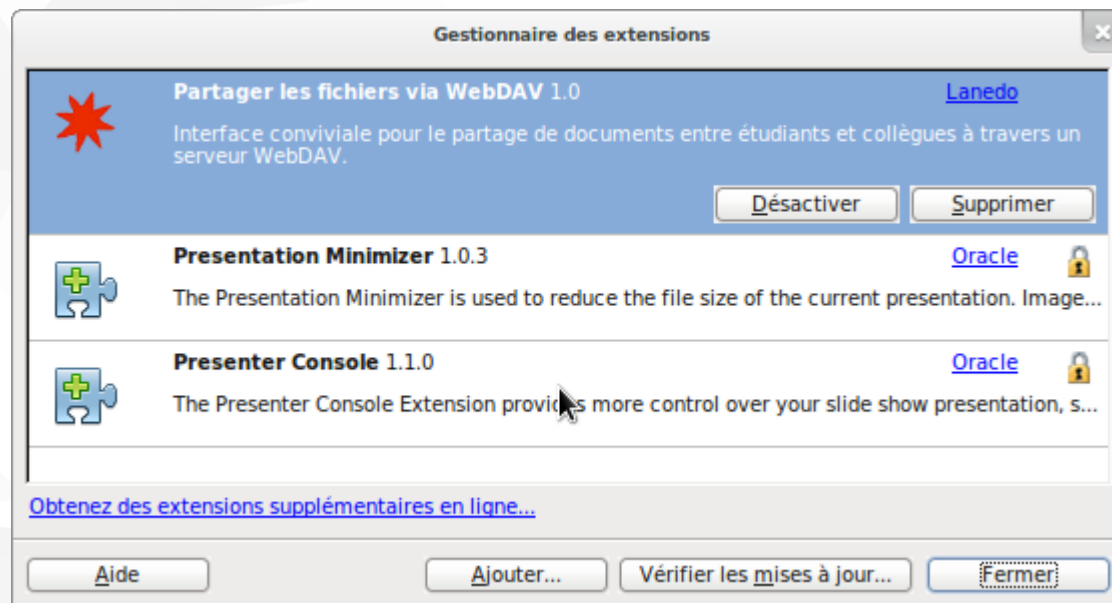


# Région Île-de-France

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- Requirements:
  - Branding
  - Integration with infrastructure (Lilie) via WebDAV
  - Authentication of user credentials
- Delivered in the form of an extension
  - Deployed to LibreOffice extension repository

# Région Île-de-France - Results



# LiMux I – Text Frames

- City of Munich – text frame rendering



# LiMux I - Solution

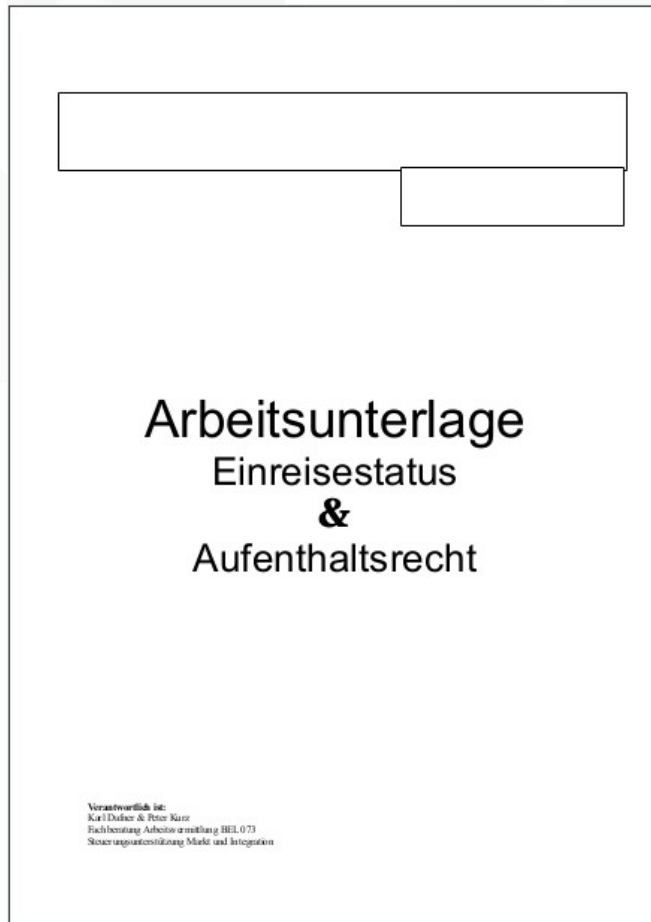
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- Support added for frames and gradient backgrounds



# LiMux I - After

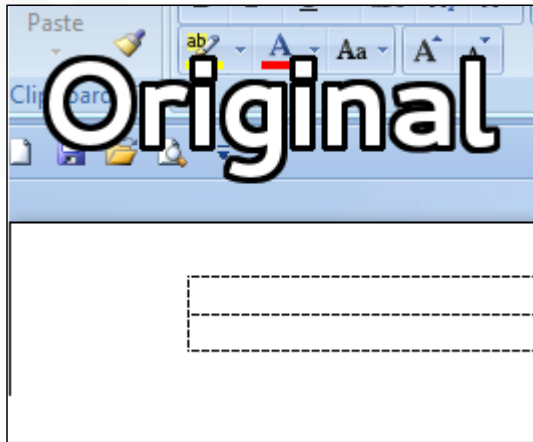
- Before and after:



# LiMux II – Dashed Table Borders

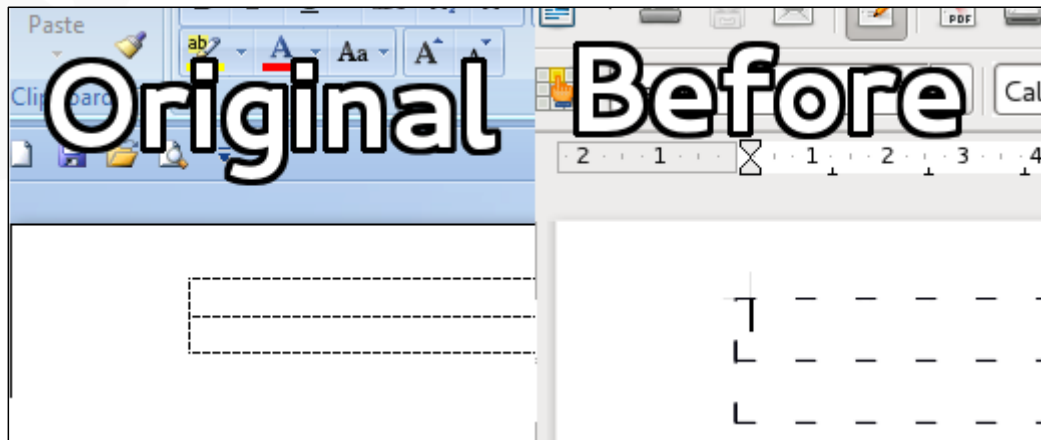
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- City of Munich – table rendering
- Aesthetic fix to ease user transition



# LiMux II – Solution

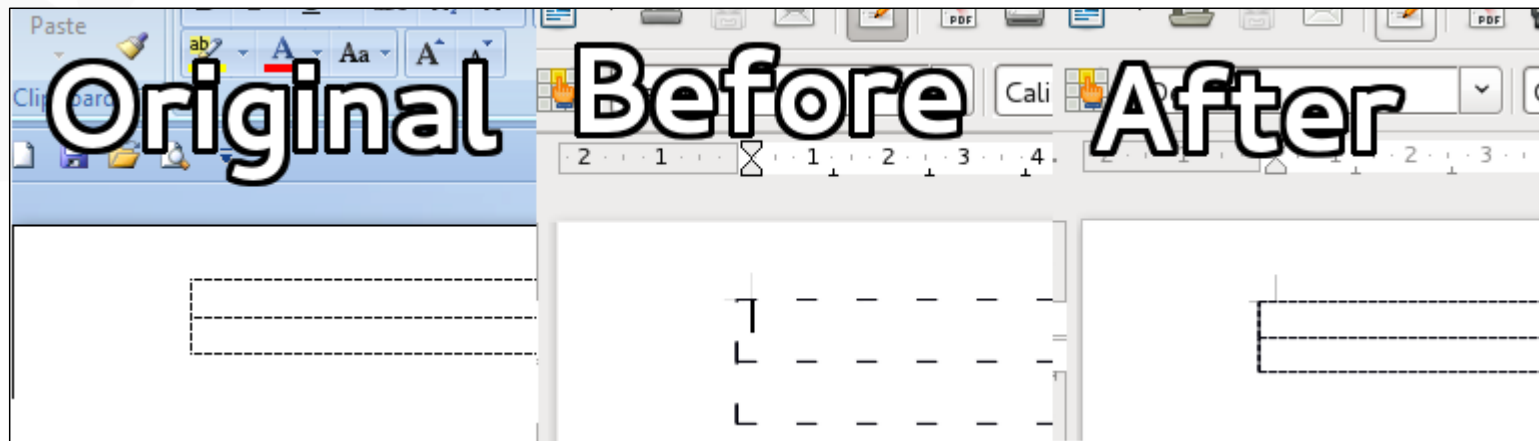
- Support was added for rendering fine dashing
  - A list of numbers representing the dash pattern is used





# LiMux II – After

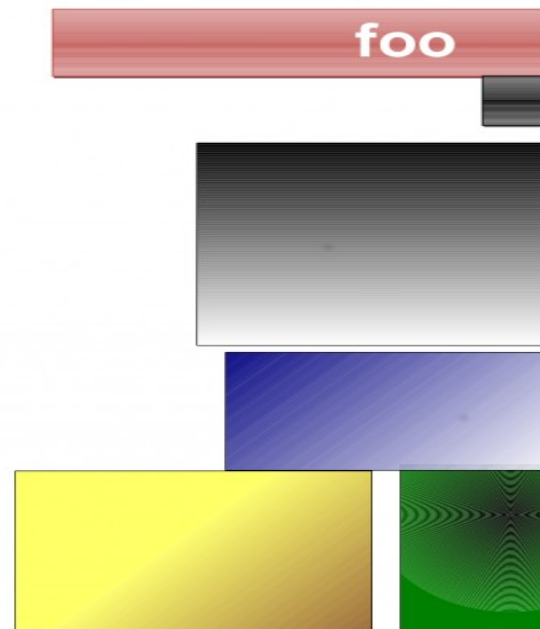
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# PDF Gradient Support - Before

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- Support for PDF gradient export



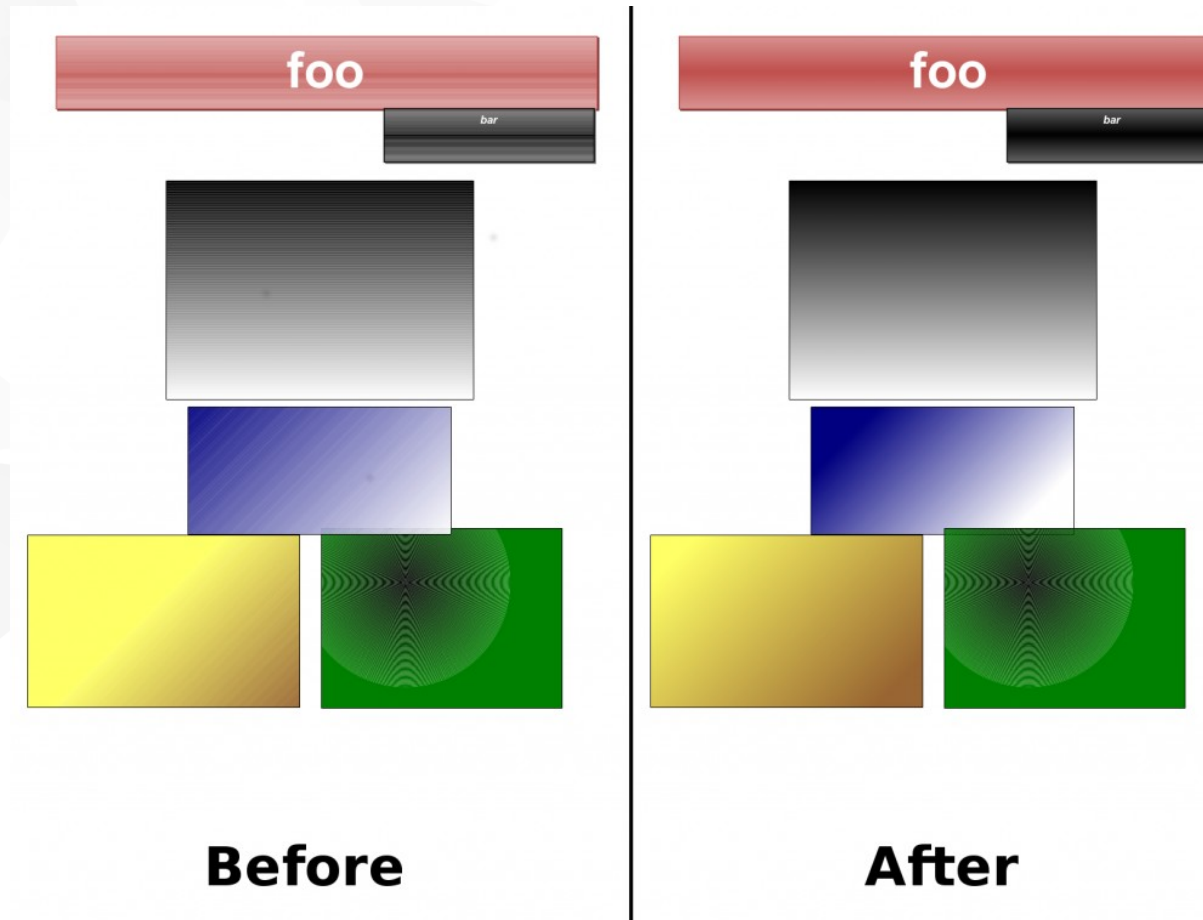
**Before**

# PDF Gradient Support - Solution

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- Gradient was exported as sequence of lines
  - Buggy rendering in Evince/Poppler
- Sample based gradients also problematic
- Axial shading provides minimal information
  - Rendering is up to the PDF reader
- See our latest blog post -  
<http://www.lanedo.com/2013/improving-libreoffice-pdf-gradients/>

# PDF Gradient Support - After



# How Lanedo Projects Work

- Estimate
- Implement
- Upstream



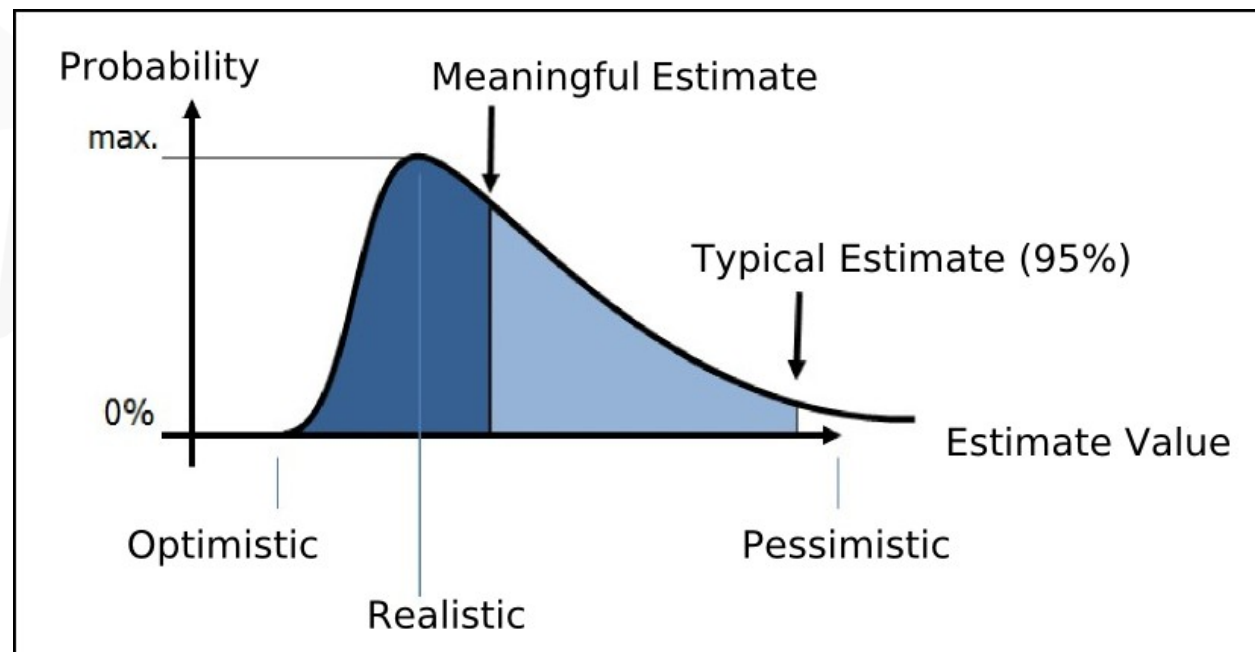
# Lanedo Project Process

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- Estimation
  - Analysis of user requirements, setup and problem area
  - 3-point estimate

# Lanedo Project Process - Estimation

- Estimation
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# Lanedo Project Process

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- Estimation
  - Analysis of user requirements, setup and problem area
  - 3-point estimate
- Implementation
  - Driven by analysis performed in estimation phase
- Upstreaming
  - Contributes to the long tail





## Thank you ...

- Contact Lanedo:
  - [www.lanedo.com/libreoffice](http://www.lanedo.com/libreoffice)
  - [contact@lanedo.com](mailto:contact@lanedo.com)
  - [@LanedoTweets](https://twitter.com/LanedoTweets)
- Questions?



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