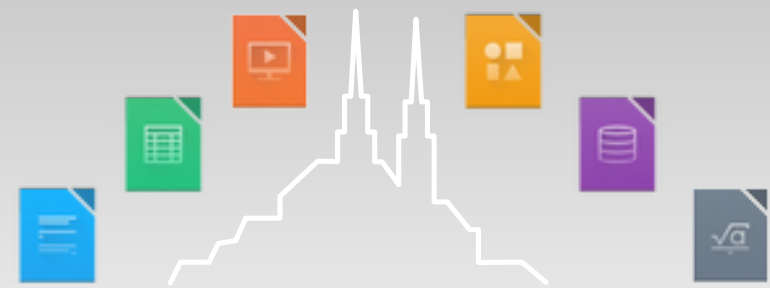


# Answering Non Technical Questions

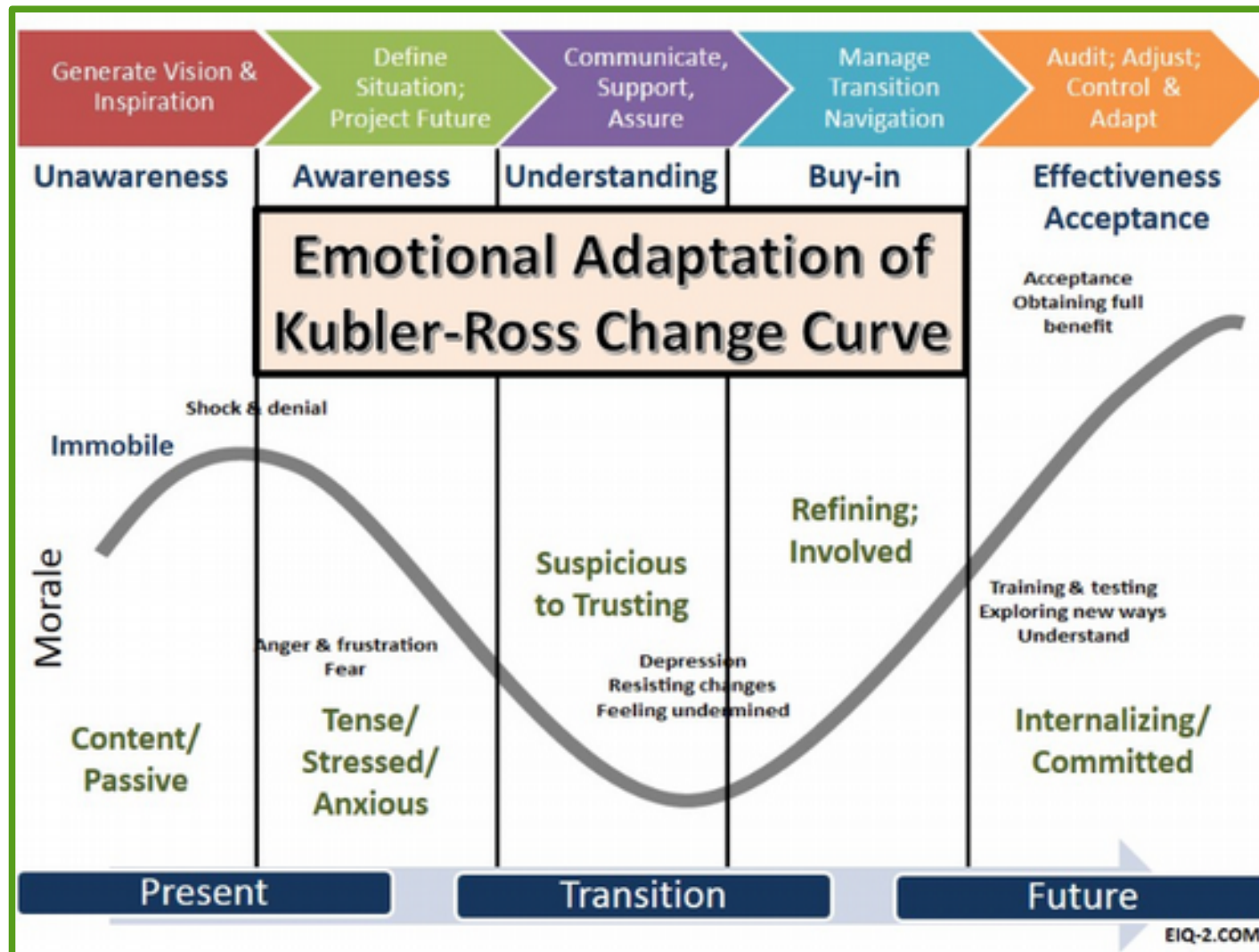
- ▀ Italo Vignoli

# Typical Questions

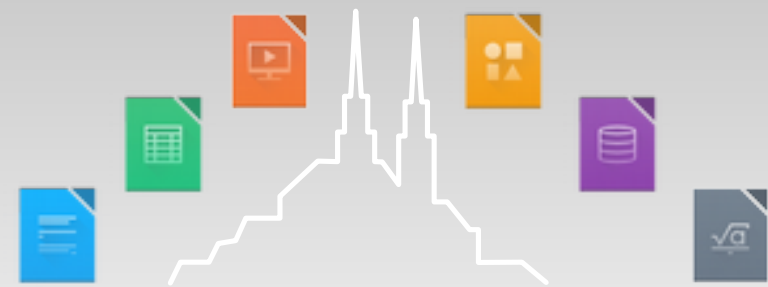


- ▼ What about Excel Macros?
- ▼ What about third party applications?
- ▼ When should I remove Microsoft Office?
- ▼ What about resistance to change?
- ▼ What about LibreOffice quality and security?
- ▼ Where are LibreOffice headquarters?
- ▼ Why Microsoft is not complaining about FOSS?
- ▼ Why should people work for free?
- ▼ ???
- ▼ ***How the hell can I save my butt?***
- ▼ ***How the hell should I trust you vs Mister X?***

# Manage Resistance to Change



# Future of OSS





# Future of OSS



OPEN SOURCE ADOPTION  
PACE CONTINUES

@FUTUREFOSS  
#FUTUREOSS

Use of OSS increased in  
**65%**  
of companies surveyed v.  
60% in 2015

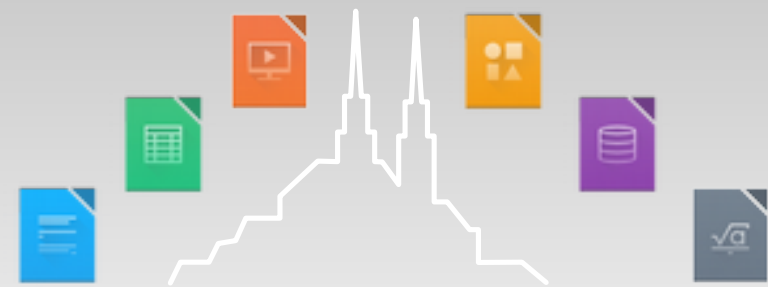
SECTION 1  
STRATEGY

A graphic showing a person's legs running up a set of stairs. The stairs are green and blue, and the background is a sunset over water. The text 'OPEN SOURCE ADOPTION PACE CONTINUES' is at the top left. A Twitter handle '@FUTUREFOSS #FUTUREOSS' is in the top right. The statistic 'Use of OSS increased in 65% of companies surveyed v. 60% in 2015' is in the center right. A small icon of a chess king piece is in the bottom left, with the text 'SECTION 1 STRATEGY' below it.

# Future of OSS



# Future of OSS



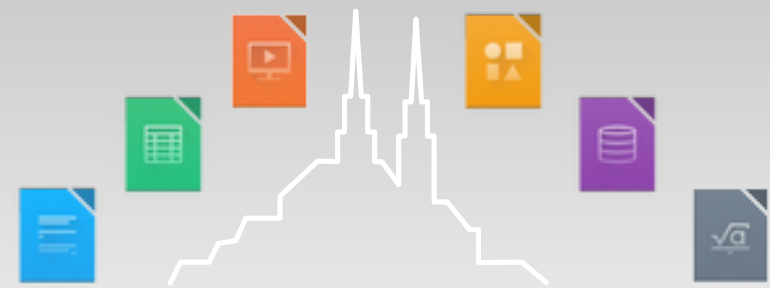
SECTION 4  
TECHNOLOGY

MOST VALUABLE  
OPEN SOURCE PROJECT?

@FUTUREOISS  
#FUTUREOISS

A horizontal row of seven logos for open source projects, each in a white box. From left to right: OpenStack (red square logo), Docker (blue ship logo), Drupal (blue text logo), LibreOffice (green text logo with a document icon), Linux (penguin logo), Ubuntu (orange circle logo), and PostgreSQL (blue elephant logo). The background of the slide is a blue-tinted image of a hand typing on a keyboard, with a world map and binary code overlaid.

# The Document Foundation

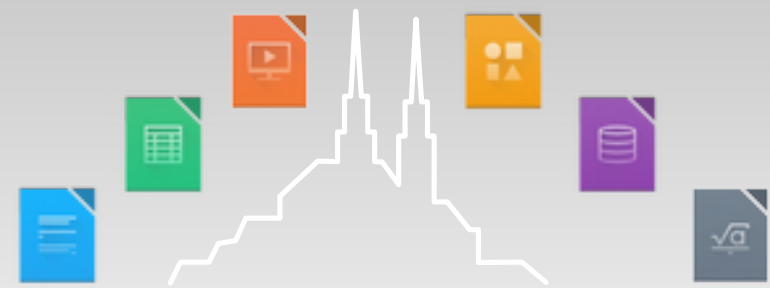


- ▼ German Charitable Foundation
- ▼ Board of Directors > coordinates all activities
- ▼ Membership Committee > coordinates membership
- ▼ Engineering Steering Committee > oversees development
- ▼ Staff > administration, general secretary, software releases, infrastructure, quality assurance, marketing, community
- ▼ Budget: one million Euro (excluding development)





# LibreOffice Quality Assurance



- ▼ Quality
  - ▼ Gerrit for Commit management
  - ▼ Tinderboxes for Daily Code Compilation
  - ▼ Automated Tests based on 10K Documents
- ▼ Security
  - ▼ Security Tests from Independent R&D Labs
  - ▼ Weekly Source Code Scan by Coverity



# TDF Migration Protocol



Project Management

Communications

Analysis

- Documents
- VBA Macros
- Integration

Impact Test

- Bug Fixes
- Compatibility
- Interoperab.

Training

- Trainers
- End Users
- Third Parties

Support

- Bug Fixes
- Compatibility
- Interoperab.

Deployment

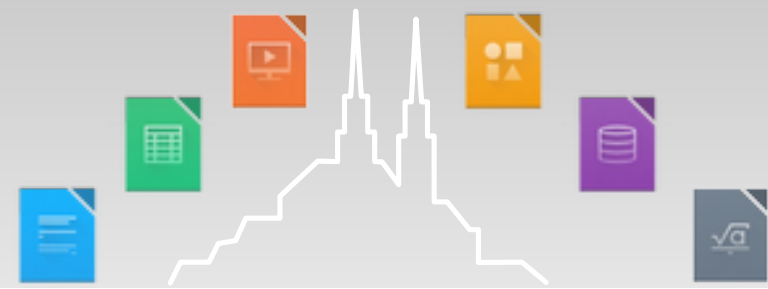
Long Term  
Supported  
Software

Evolution

- New Feature  
Development
- Integration



# TDF Migration Timeline



Analisis

Communications

Impact Test

Support

Training

Deployment



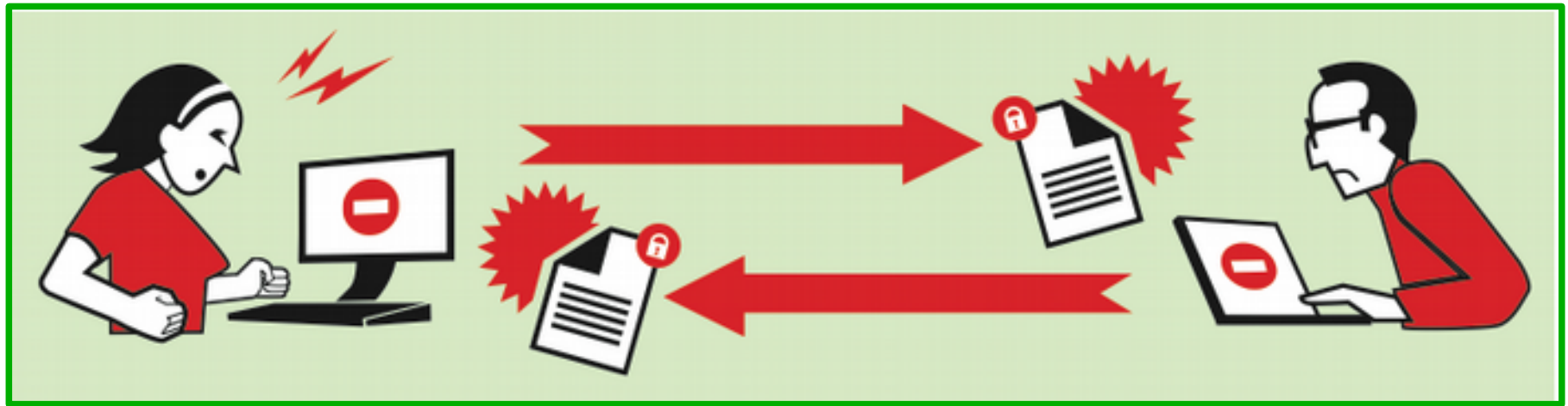


# Non Standard: Circa 2000 AC

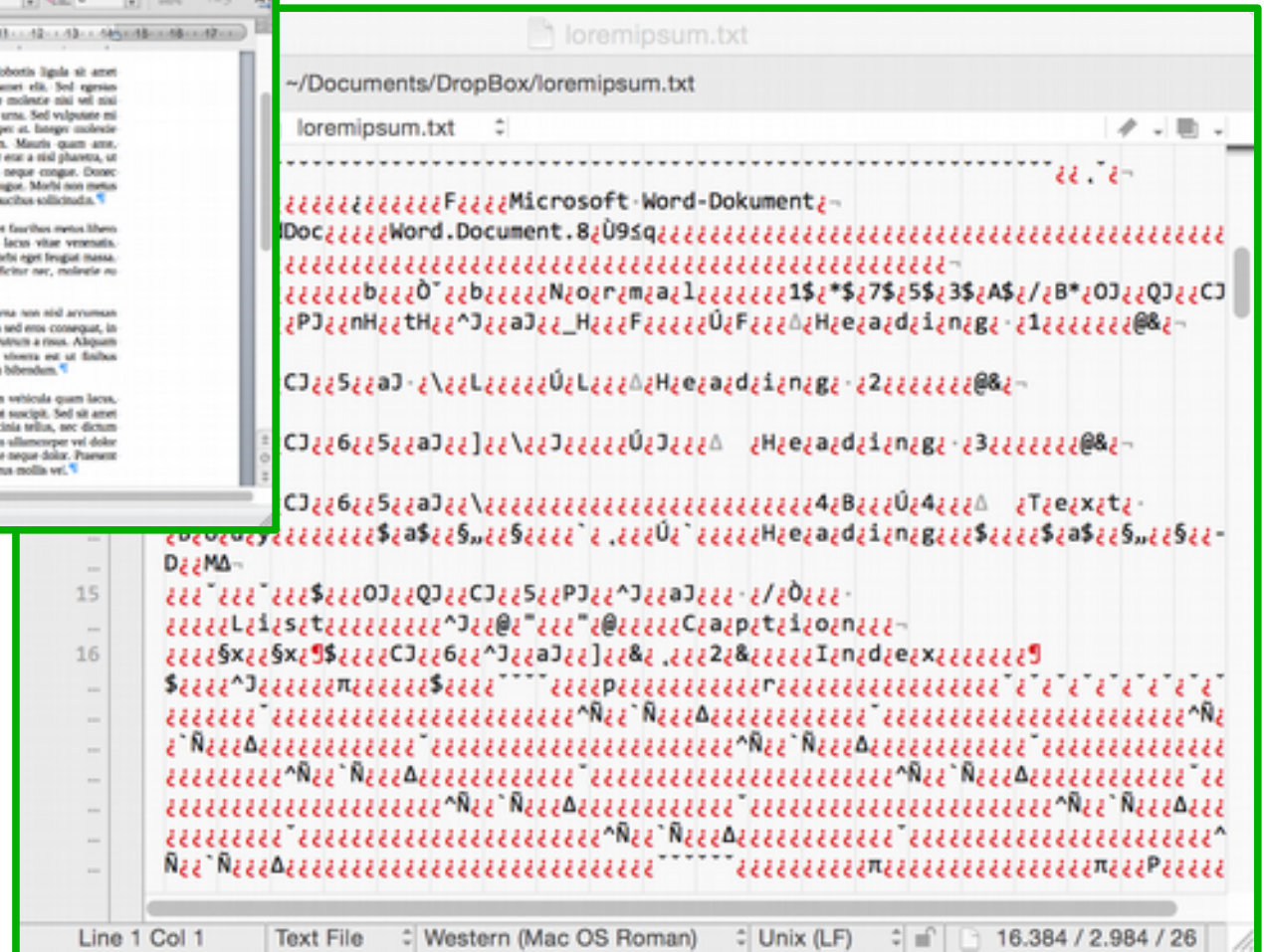
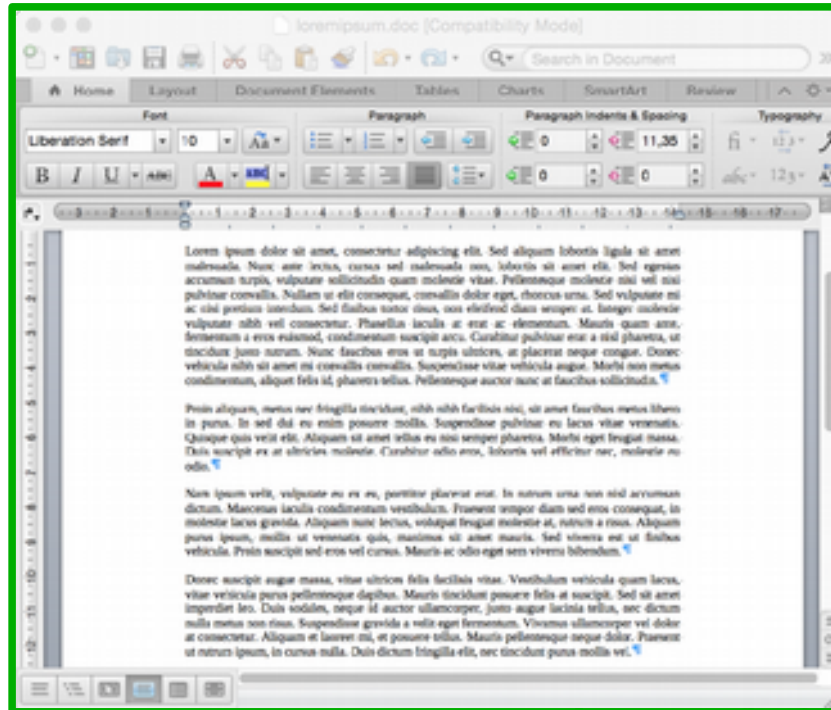




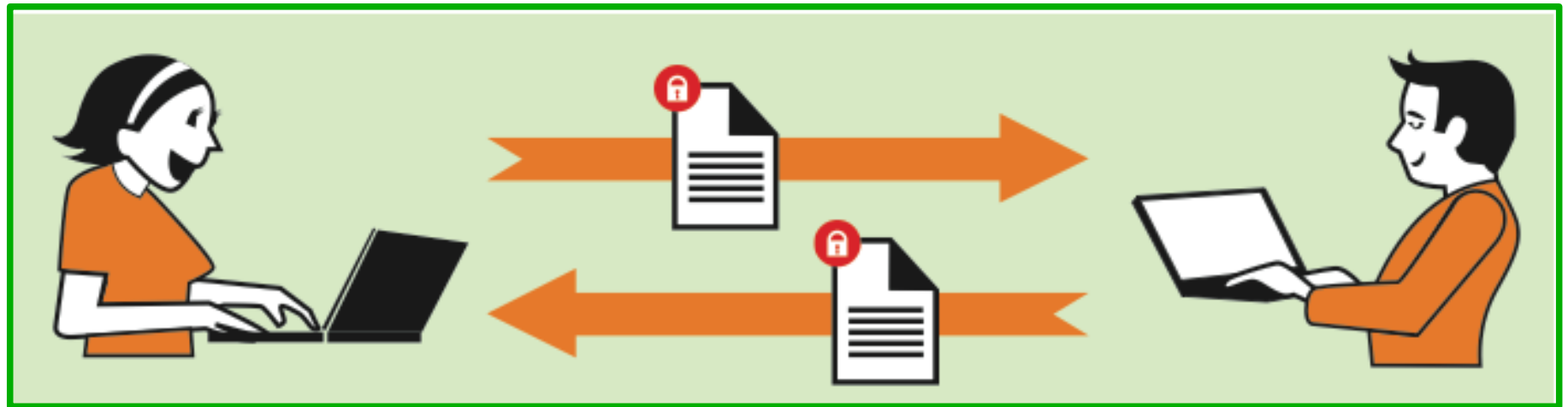
# No Interoperability



# Non Standard: Circa 2000 DC



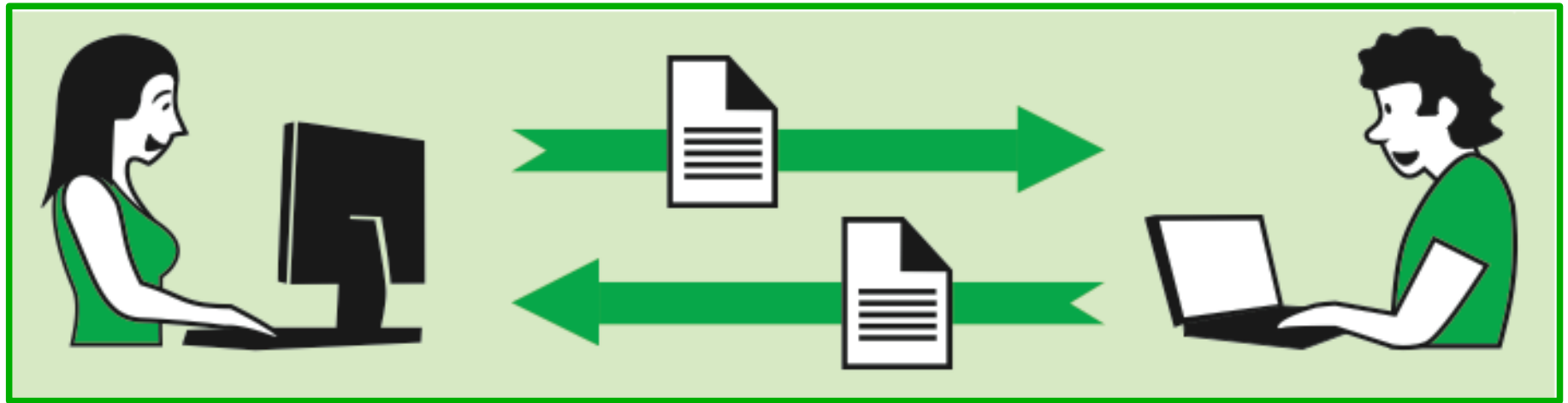
# False Interoperability



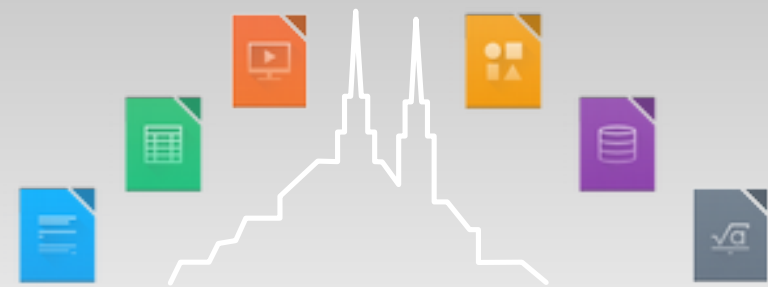




# True Interoperability



# Coverity Scan



## DEFECTS WE FIND INCLUDE



Crashes



Security  
Vulnerabilities



Concurrency



Memory  
Corruption



Uninitialized  
memory



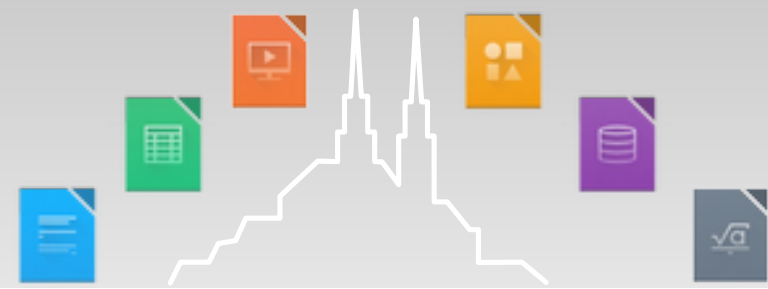
Error handling



Resource leaks



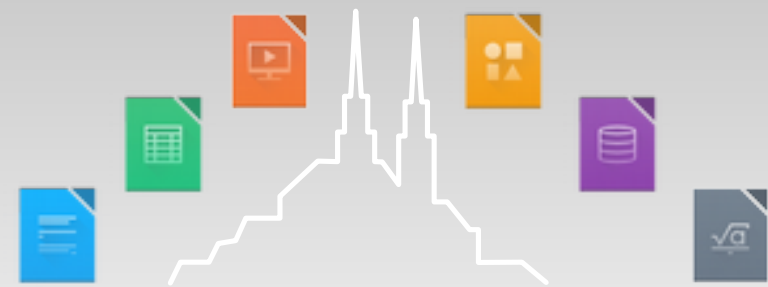
# What is Coverity Scan?



- ▼ Coverity Scan is a service by which Coverity provides the results of analysis on open source coding projects to open source code developers
- ▼ Coverity Scan is powered by Coverity Quality Advisor, which surfaces defects identified by the Coverity Static Analysis Verification Engine (Coverity SAVE) for fast and easy remediation
- ▼ Coverity offers the results of the analysis completed by Coverity Quality Advisor on registered projects at no charge to registered open source developers



# Coverity Scan and OSS



## Coverity finds open source software quality better than proprietary code

**Summary:** Coverity, a company specializing in software quality and security testing solutions, finds that open source programs tend to have fewer errors than proprietary programs.



By [Steven J. Vaughan-Nichols](#) for [Linux and Open Source](#) | April 16, 2014 -- 18:01 GMT (19:01 BST)



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8,359 followers

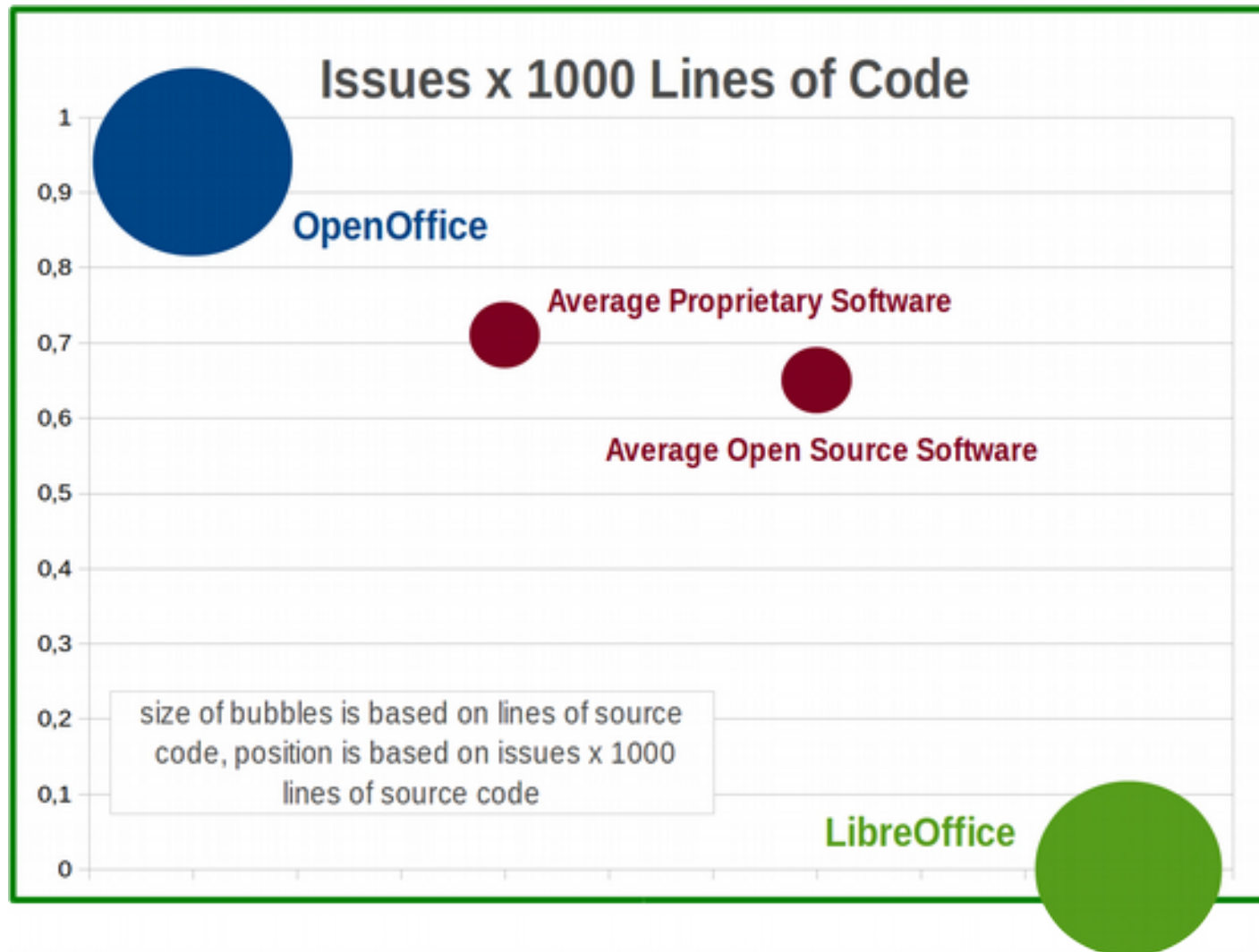
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The irony isn't lost on me: [Coverity](#), a a company specializing in software quality and security testing solution, has found that open source software has fewer defects in its code than proprietary programs in the aftermath of [open-source OpenSSL Heartbleed programming fiasco](#) . Nevertheless, the numbers don't lie and the [2013 Coverity Scan Open Source Report](#) (PDF Link) found that open source had fewer errors per thousand lines of code (KLoC) than proprietary software.

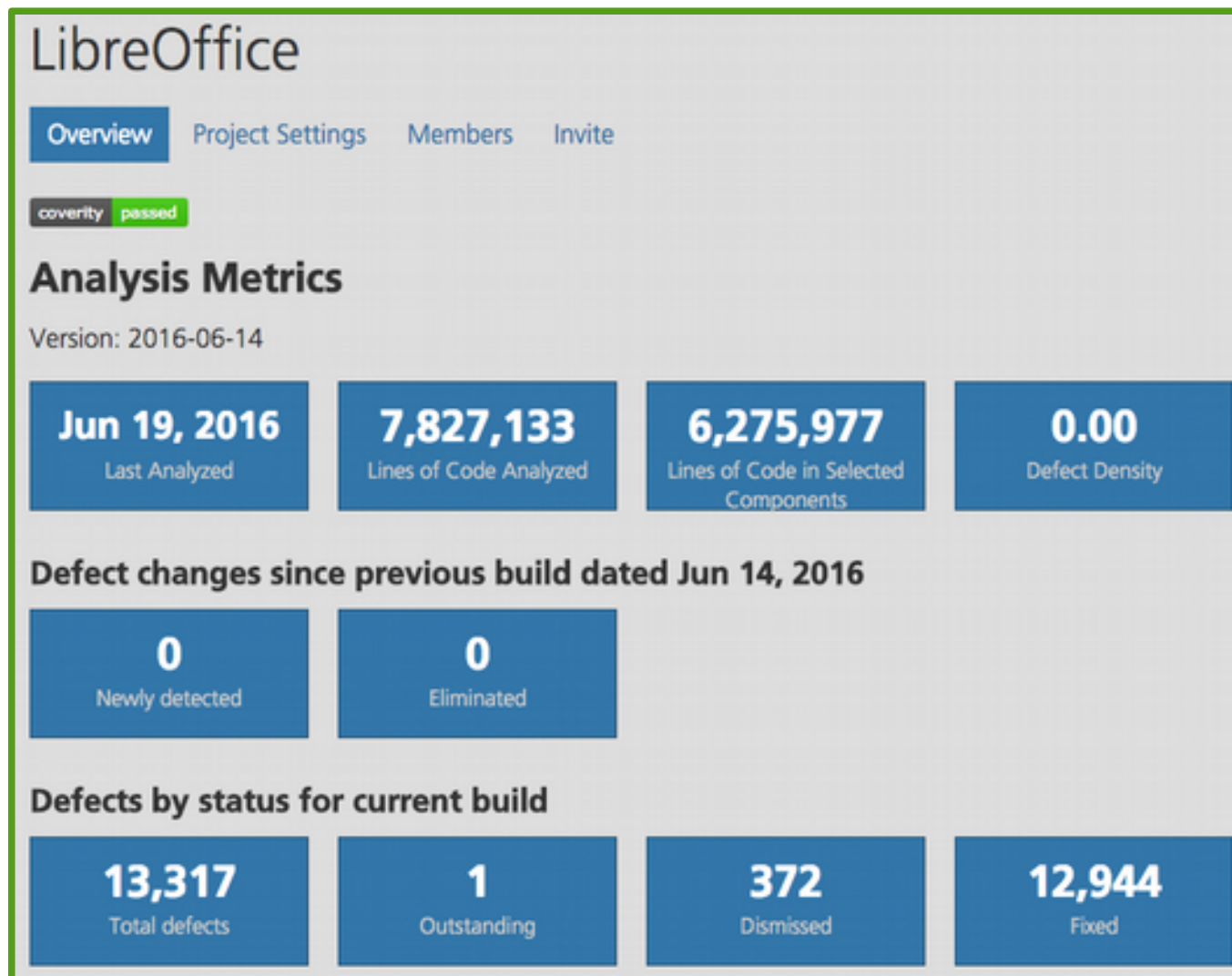
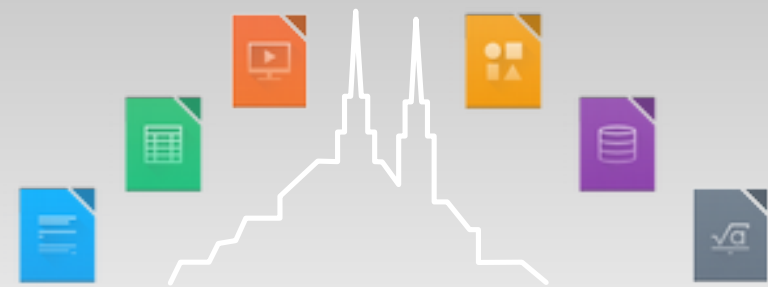




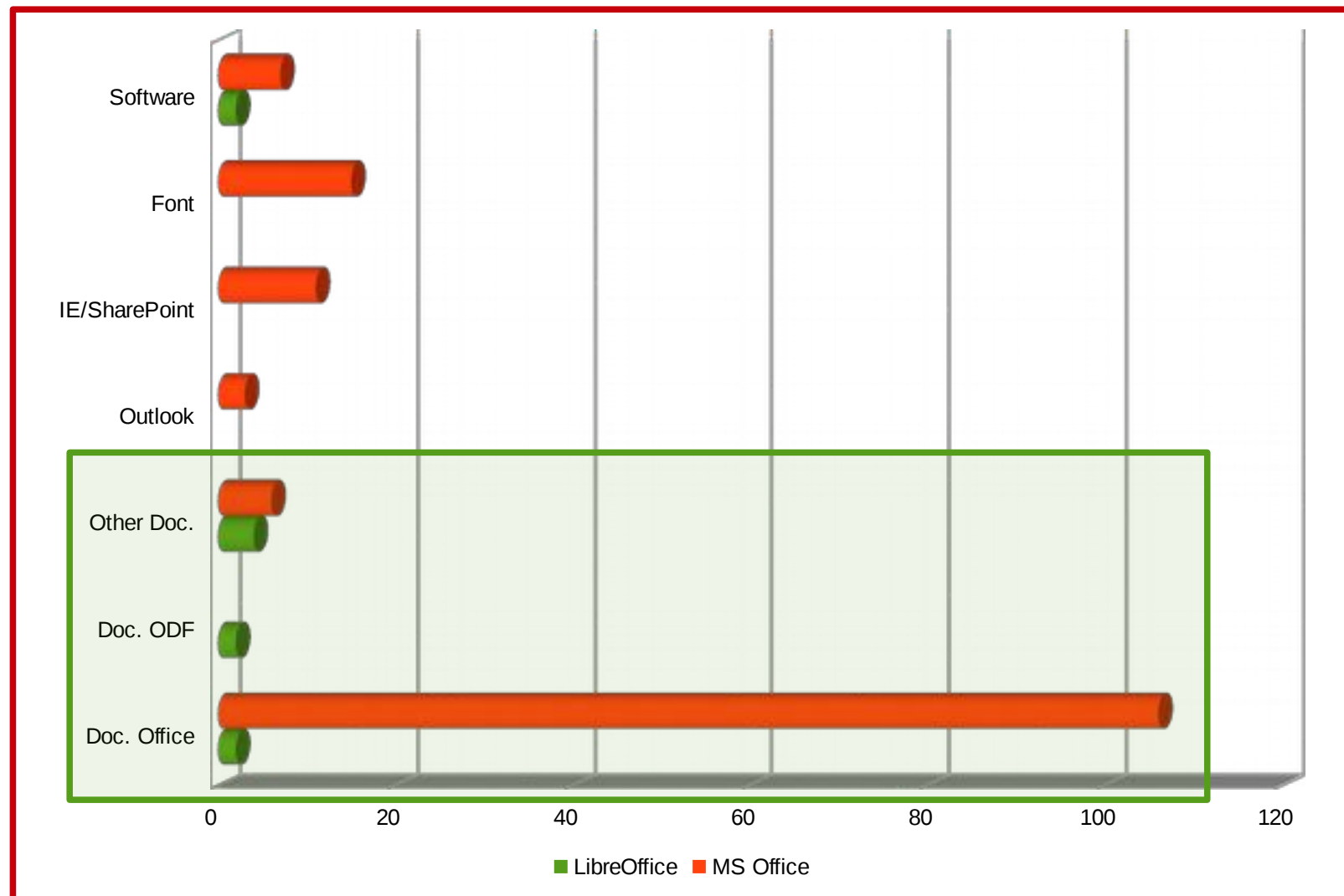
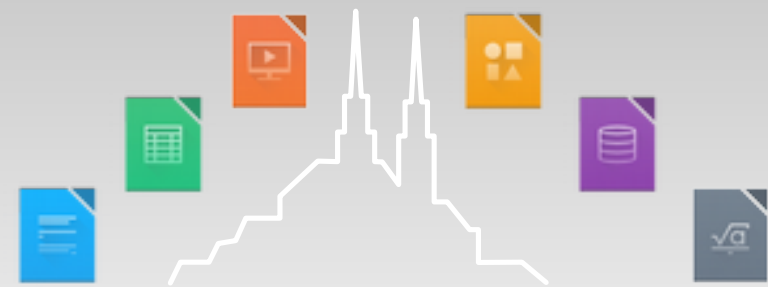
# LibreOffice and Coverity Scan



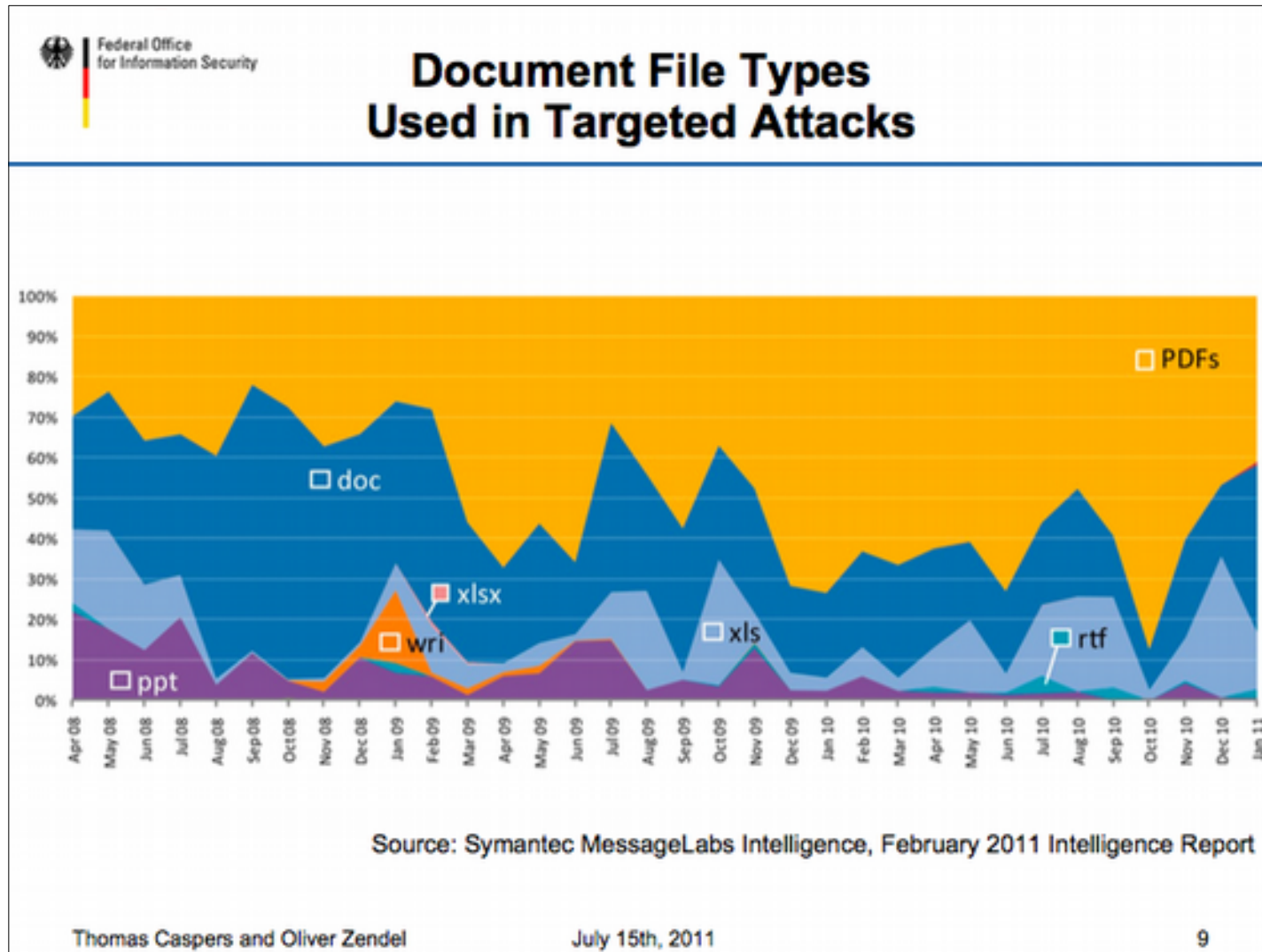
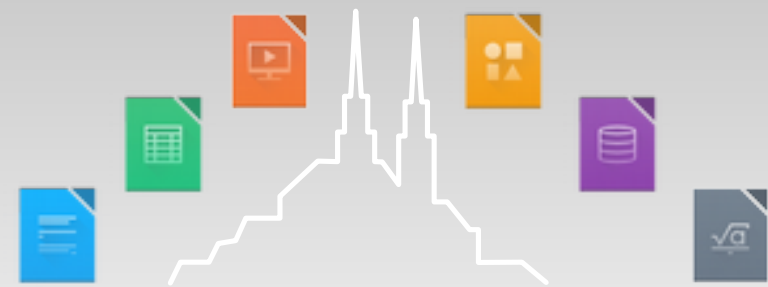
# Source Code Quality



# Vulnerabilities

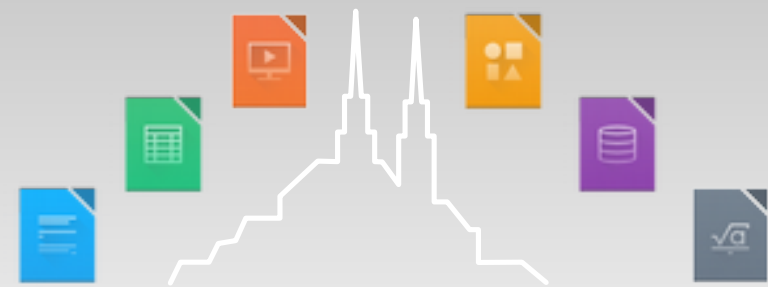


# Document Vulnerabilities





# Simplicity vs Complexity



## Complexity within Document Formats

Document Format	# Elements
Office Open XML	1792
WordprocessingML	780
OASIS Open Document	530

As of 2006



# ODF is Standard in UK



Search



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[Policies](#) [Publications](#) [Consultations](#) [Statistics](#) [Announcements](#)

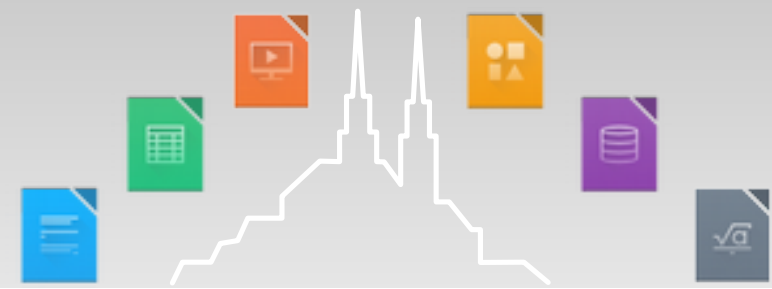
Press release

## Open document formats selected to meet user needs

From: [Cabinet Office, The Rt Hon Francis Maude and Government Digital Service](#)  
First published: 22 July 2014  
Part of: [Government transparency and accountability](#) and [Government efficiency, transparency and accountability](#)



# ODF is Standard



## ▼ The Netherlands



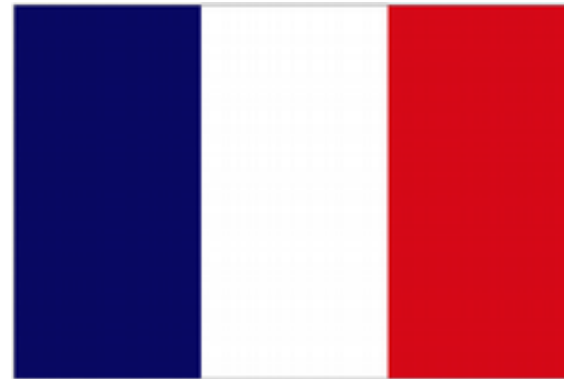
## ▼ Taiwan



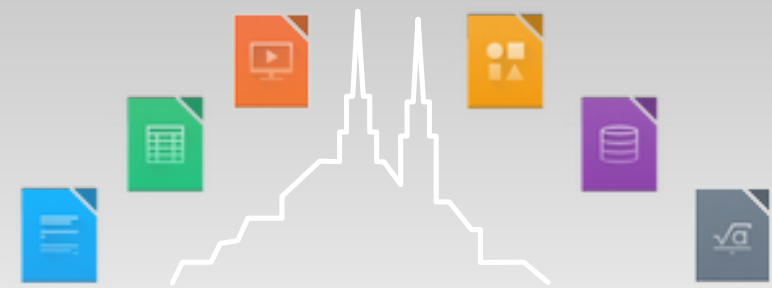
## ▼ Sweden



## ▼ France



# Brain and Computer



## ▼ Brain

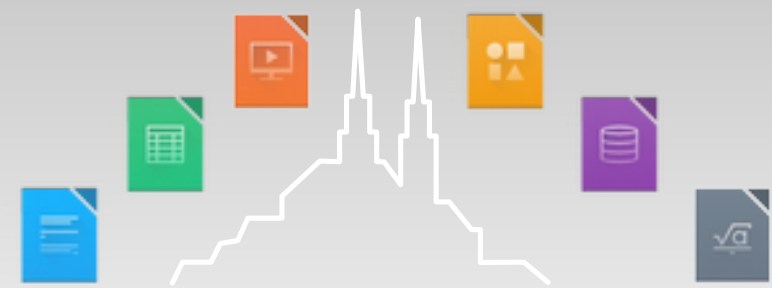
Red

## ▼ Computer

#FF0000



# #FF0000 Color



## ODF (LibreOffice)

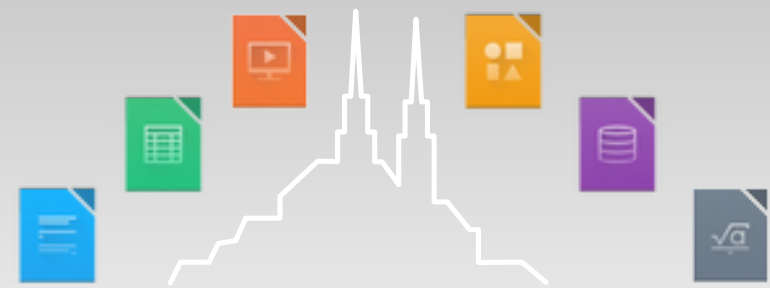
- ▼ Writer  
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- ▼ Calc  
fo:color="#FF0000"
- ▼ Impress  
fo:color="#FF0000"

## OOXML (MS Office)

- ▼ Word  
w:color w:val="FF0000"
- ▼ Excel  
color rgb="FFFF0000"
- ▼ PowerPoint  
a:srgbClr val="FF0000"



# Lessons Learned



- ▼ TDF Migration Protocol represents a fundamental reference for the success of migrations to open source software
- ▼ Impossible migrations do not exist, if you approach the process with a committed project team and respect the reference project schedule
- ▼ Educating enterprise users is a fundamental task, as they have to learn a new approach to software and the community
- ▼ Leveraging value added resources such as LibreOffice LTS versions is key to overcome resistance to change



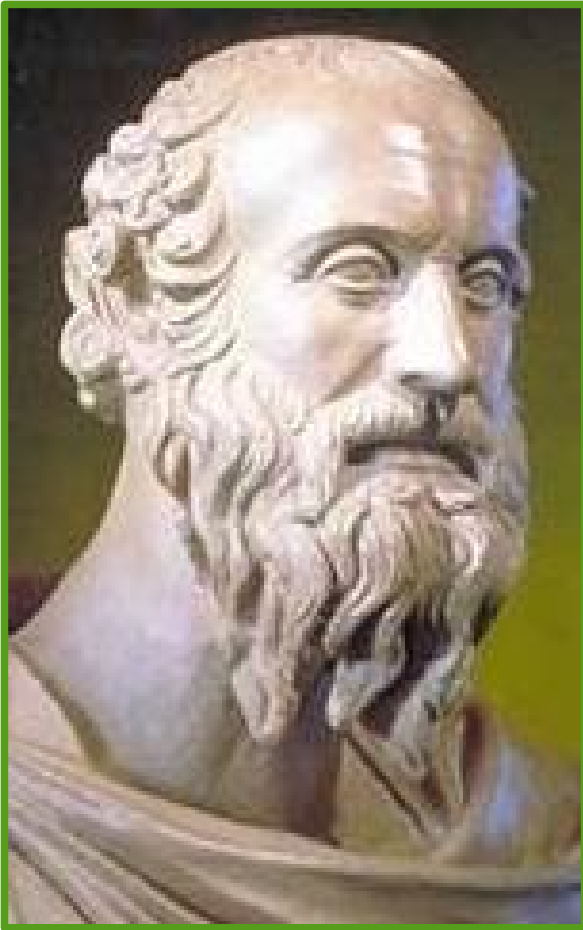


Man is an  
animal with  
two legs and  
no feathers

**Plato**



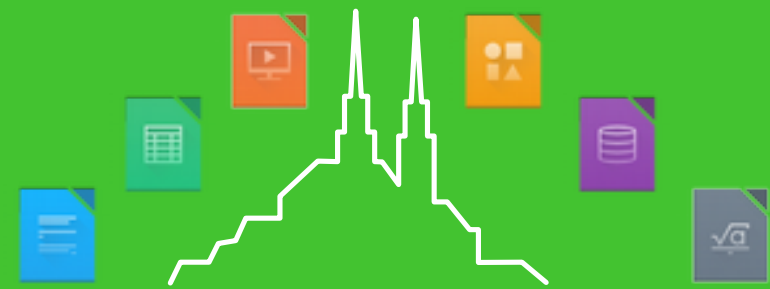
# Diogenes the Cynic



Plato's Man







Thank you ...

- ▶ [italo@vignoli.org](mailto:italo@vignoli.org)
- ▶ [italo@libreoffice.org](mailto:italo@libreoffice.org)



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