



Collabora Productivity

LibreOffice and ODF

By Andras Timar

Product Development Manager

@timar +timar74



ODF Extension

- New feature
 - driven by customer demand, e.g. doc interop
- Change in document model
- Need to save it to (and then load it from) ODF
 - This is a rule that we follow, ODF filter is special. It must be complete.
 - It's usually not possible with standardized ODF 1.2
 - Extension namespaces can be used



Extension Namespaces

- **officeooo, drawooo**
 - from OpenOffice.org
- **formx, tableooo, css3t**
 - from Go-OO
- LibreOffice did not want to add new elements under these namespaces to avoid clash with other OOo derivatives.
 - added **calcext** first
 - finally moved everything under **loext**



OASIS ODF TC Work

- OASIS Open Document Format for Office Applications (OpenDocument) TC
- Meetings (over the phone) once every two weeks
- New ODF features are submitted as proposals to OASIS JIRA for inclusion into next version of ODF standard
- LibreOffice developers in OASIS TC (as voting members) help to make that happen
 - Andras Timar (Collabora)
 - Michael Stahl (Red Hat)
 - Regina Henschel (individual)
 - Svante Schubert (individual)

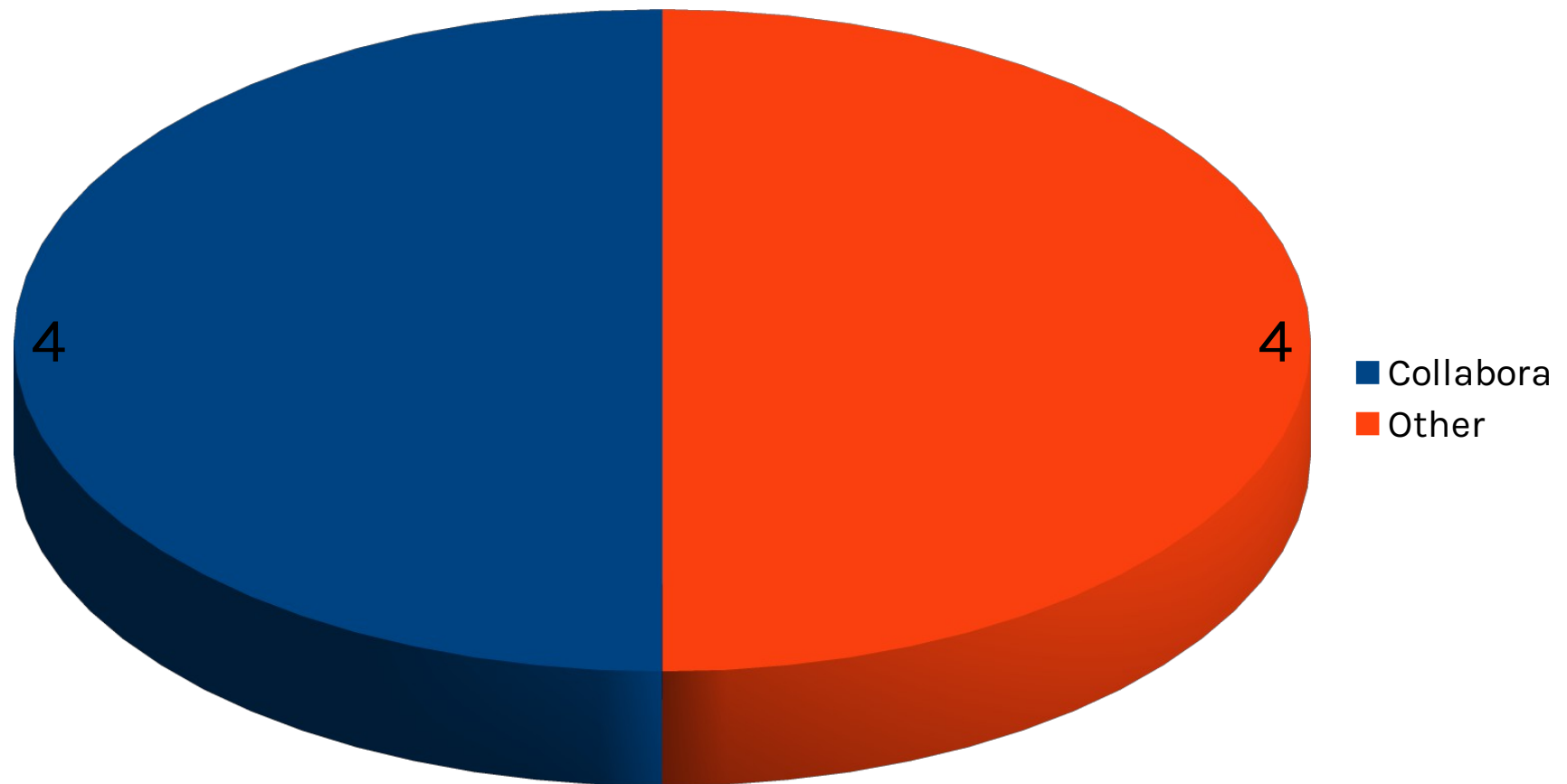


Goal

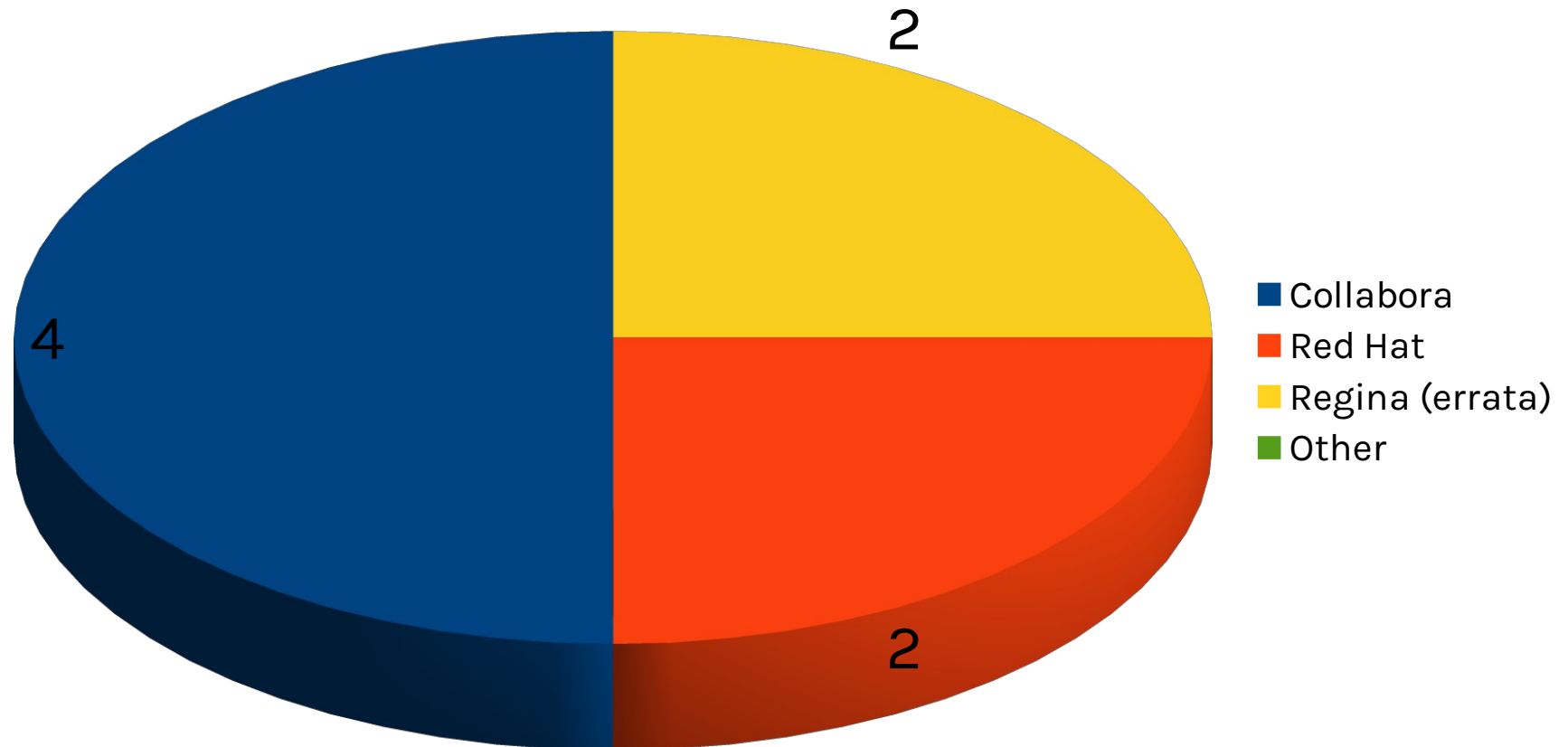
- Standardize ODF extensions of OpenOffice.org legacy, Go-OO and LibreOffice (~30)
 - mainly introduced for better interop with other office suites
 - See [ODF Implementer Notes in TDF Wiki](#)



New JIRA issues in 2015



Accepted proposals for ODF 1.3 in 2015



Examples

- chart legend size
- sheet tab color
- custom display names in data pilot tables
- scale-to-X and scale-to-Y attributes
- extend specification of number of decimal digits in number formatting
- drop-down listbox field



TC Workflow Improvements

- Before
 - proposals in txt format
 - manual merge to ODF v1.3 draft and schema
 - slow, error prone
- Now
 - version controlled ODF v1.3 draft and schema
 - pull requests will be possible
 - it's time to process the JIRA backlog (20 tickets/meeting)



Automatic validation tests

- created by Markus Mohrhard (Collabora)
- run every few days, results:
<http://dev-builds.libreoffice.org/crashtest>
- file format validation testing of ~85k documents from bug trackers (open, save as ODF, validate)
 - ODF Validator
- logs are monitored by developers
 - fix LibreOffice
 - occasionally fix ODF Validator or propose fix of ODF standard



ODFAutoTests

- ... by Jos van den Oever, on [gitlab](#)
- I wrote ~60 test cases - covering paragraph properties - during 10th ODF Plugfest, 2014 London
- Many tests have been written since then
- ~1600 tests in total
- Import → export from ODF implementations → Xpath checks whether elements/attributes are roundtripped



ODFAutoTests

- Handling issues in LibreOffice
 - Bug in test vs. bug in LibreOffice
 - tdf#94260 – ODF import loses fo:letter-spacing in style
 - tdf#94279 – ODF import: paragraph padding ignored
 - more to come...



Summary

- Push LibreOffice's ODF extensions to ODF version 1.3
 - ODF Implementer Notes in TDF Wiki
 - Automatic validation tests
- Fix implementation bugs
 - Automatic validation tests
 - ODFAutoTests

