



LibreOffice
The Document Foundation



LibreOffice'26
PORDENONE
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LibreOffice and a wide range of Extensions

Rosemarie Haberecht, Karsten Seidel



IO SONO FRIULI VENEZIA GIULIA



Comune di Pordenone



Introduction to the LibreOps Extension

- Purpose and Objective of the Extension
- Development Process Using Python
- Bookmarks with RDF Design
- Scope of This Extension
- Solutions to Problems Encountered During Development
- Related Bugs



Purpose and Objective of the Extension

- XML Export using Comments to create Bookmarks with RDF-Design
- Convert Comments in Bookmarks using RDF-Design
- Editing, Deleting, and Creating Bookmarks with RDF-Design

Orientiert in Berlin	#Exclude Haberecht.Rosemarie@... 26.06.2026 09:35
Sightseeing-Klassiker	#h2 Haberecht.Rosemarie@... 26.06.2026 09:35
„Berlin, die größte kulturelle Extravaganz, die man sich vorstellen kann“ (David Bowie). „Sowie man Berlin betritt, ist es mit Schick und Eleganz vorbei“ (Theodor Fontane). „Der Horizont des Berliners ist nicht ganz so groß wie seine Stadt“ (Kurt Tucholsky). „It's a much wilder place than New York City“ (Pulitzer-Preisträger Jeffrey Eugenides).	#I Haberecht.Rosemarie@... 26.06.2026 09:35
Unser Tipp: Museumspass Berlin	#hBox Haberecht.Rosemarie@... 26.06.2026 09:35
Mit dem Museumspass Berlin macht man ein richtiges Schnäppchen. Für 32 € kann man drei Tage durch etliche Museen der Stadt ziehen (u. a. durch alle Museen der Museumsinsel). Mehr dazu im Kapitel „Berlin (fast) umsonst“.	#Ref Haberecht.Rosemarie@... 26.06.2026 09:35
Ab ins Museum	

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Development with Python

- Set bookmarks to highlight specific items, e.g. POIs, headings
- This is required to convert ODT documents later into another tool, for export an app or an e-book.
- => For example, a POI in the text opens a map in the app, showing where the POI is located

Regel·woanders·Ganz·nebenbei·Kein·Eck·Berlins·ist·so·penibe
unauffällig,als·wären·Müllmänner·in·Zivil·unterwegs·Auf·das·Sch

Tour-Info·Länge·ca.·6,5km,Dauer·ca.·3Std.,Karte·→S.44/45.

Die·Route

Potsdamer·Platz

Am·Potsdamer·Platz·steigen·gläserne·Fassaden·gen·Himmel,und·z
Nummer·kleiner·Verkehr·herrscht·auch·auf·dem·Platz,aber·nich
umliegenden·Cafés·und·Restaurants,Grandhotels·und·Filmpaläs
Zebrastreifen·ist,weiß·heute·jedes·Kind·Als·man·hier·aber·1924·
das·so·neu,dass·es·erklärungsbedürftig·war:„Zur·Verkehrsregel
Volksmund·Oberkieker·heißt·Der·dort·in·den·Haupttagesstunde
Signale·(grün·bzw.·rot)·an,welche·Durchfahrtrichtung·freigege



Creation process I

- **László Németh** created a prototype for us using <https://github.com/kelsa-pi/unodit>
=> I've added logging everywhere and tracked access to the API,
- **New windows**
=> I copy my default folder into LibreOffice, then customise the windows and panels to my liking and save them
=> I use Unodit to create the new window UI and add my functions



Creation process II

- **Special features:**
Panel Bookmark(Tag) Daten and *Window TagAs* are generated at runtime.
- ***Panel Bookmark(Tag) Daten:*** The panel is generated based on the RDF data and the attributes that a bookmark is permitted to have
- **Window TagAs:** depending on what has been selected (paragraph, single word, etc.), the possible types are displayed



Bookmark with RDF – Semantic

- content.xml:

```
<text:bookmark-start text:name="Poi8" xml:id="ID-b9a599d5-f99b-4032-b6bc-3663ca1ebfbf"/><text:span text:style-name="T_5f_Fettung_5f_Farbig">Doyum Grillhaus</text:span><text:bookmark-end text:name="Poi8"/>
```

- custom.rdf:

```
<rdf:Description rdf:about="content.xml#ID-b9a599d5-f99b-4032-b6bc-3663ca1ebfbf">  
  <ns0:shading xmlns:ns0="urn:org:documentfoundation:names:experimental:office:xmlns:loext:1.0odf#">EF1D30</ns0:shading>  
</rdf:Description>  
<rdf:Description rdf:about="content.xml#ID-b9a599d5-f99b-4032-b6bc-3663ca1ebfbf">  
  <rdf:type>Poi</rdf:type>  
</rdf:Description>  
<rdf:Description rdf:about="content.xml#ID-b9a599d5-f99b-4032-b6bc-3663ca1ebfbf">  
  <ns0:PoiReference xmlns:ns0="MMV#">523eddd4-1132-4bfa-ad6d-34cc3b1f62c0</ns0:PoiReference>  
</rdf:Description>  
<rdf:Description rdf:about="content.xml#ID-b9a599d5-f99b-4032-b6bc-3663ca1ebfbf">  
  <ns0:Id xmlns:ns0="MMV#">b9a599d5-f99b-4032-b6bc-3663ca1ebfbf</ns0:Id>  
</rdf:Description>
```

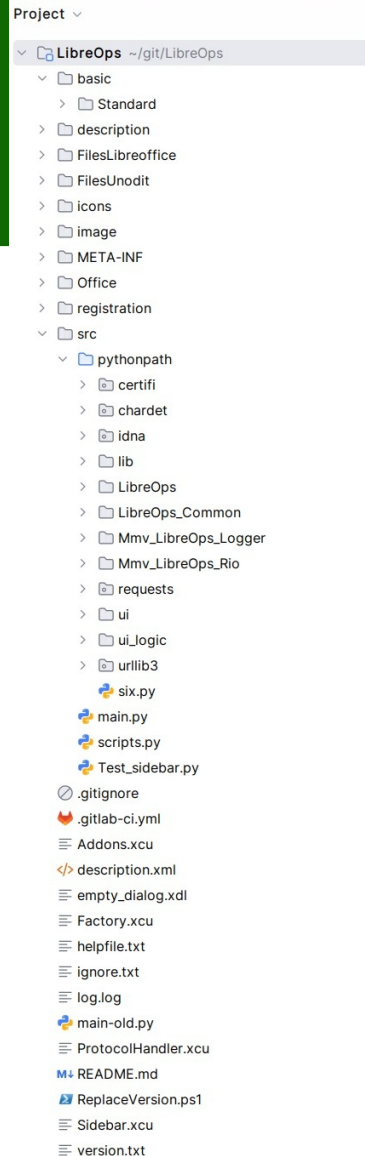
- manifest.rdf:

```
<rdf:Description rdf:about="">  
  <ns0:hasPart xmlns:ns0="http://docs.oasis-open.org/ns/office/1.2/meta/pkg#" rdf:resource="custom.rdf"/>  
</rdf:Description>
```



Scope of This Extension - Structure I

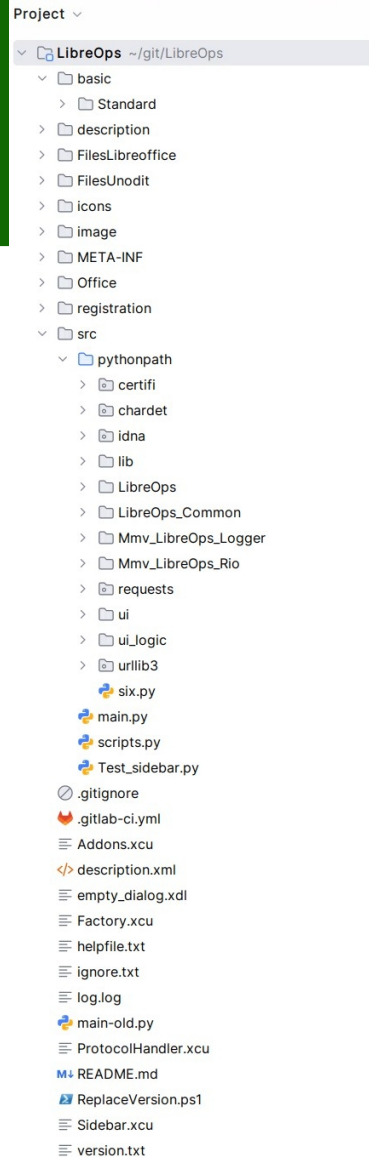
- **src/pythonpath/lib/rdf.py**: reads the RDF data
- **src/pythonpath/LibreOps_Common/Data/LibreDocument.py**: handles loading the data and only reloads RDF data when necessary. Previously, it always had to be reloaded => migration took up to an hour; now it takes up to 5 minutes, but usually much less.
- **folders with circles**: these contain python modules to ensure the extension works on all platforms



Scope of This Extension

- Structure II

- **src/pythonpath/Mmv_LibreOps_Rio:** access to the MMV API
- **src/pythonpath/Mmv_LibreOps_Logger:** log for extension
- **src/pythonpath/ui:** windows and panels with their data created by unodit
- **src/pythonpath/ui_logic:** the logic behind the windows and panels, such as button commands selecting text, etc.



Windows

POIs anlegen

Unverlinkte POIs aus Selection werden in DB erstellt und verlinkt

Ort:

Kategorie:

POI Erstellen

XmlId:

☐ Haupteintrag

Name:

Ort:

Metadata

Dokument:

OpsDatabaseId:

OpsDocumentId:

DocumentType:

MmvBookType:

MmvAreaCode:

MmvCountry:

MmvCountryCode:

MmvPlace:

MmvPostCode:

MmvLanguage:

DB:

eBookDescription:

Keywords:

eBookCover:

Promotion/Aktion:

Titel:

Filename:

Credit:

Link:

☒ eBook? ☒ App? ☐ WebApp?

TaggerTools

Suche Bookmark Guid:

Bookmarktyp ändern:

Entferne folgende Bookmarks: ☐ Kapitel ☒ Hx leer ☒ Map ☒ MapNun ☒ MapPage

Leere Ref mit S. und ohne Ziel zu Exclude

Ingest von Bookmarks:

Leere Bookmarks eines Typs löschen: ☐ mit Inhalt!

Alle Bookmarks löschen

POIs ohne POIVerweis löschen

BulkSetPoiData

Areacode: 30 Countrycode: +49

Name:

Str. Nr.

Ort: PLZ: Land:

Web: Web2:

Mail: Mail2:

Tel: Tel2:

Preis:

Kat.:

DB-Id: 523edd4-1132-4bfa-ad6d-34cc3b1f62c0 (Poi8)

☐ Haupteintrag

POI Suche

Optionen:

Offline: ☐ Dokument ☐ Tour/Hikeinfo

Radius(km)

Online: ☒ Auflage ☐ GPX-Daten ☐ Radius(km)

Center Lat/Lon:

Ergebnisse: ☐ Phonetic/Sounder:

Suche: ☐ Online

Anzahl:

Name	Distanz(km)	Status	Ort
------	-------------	--------	-----



Panels, Menu and ShortCuts

Panels:

Bookmark(Tag) Daten

Poi8

XmlId: b9a599d5-f99b-4032-b6bc-3663ca1ebfbf

XmlText: Doyum Grillhaus

DB-PolID: 523eddd4-1132-4bfa-ad6d-34cc3b1f62c0

Seitenzahl:

Alternativtext:

☐ Haupteintrag

POI DB-Daten

Name: Doyum Grillhaus

Str.: Admiralstr. Nr.: 36

Ort: Berlin PLZ: Land: Deutschland

Web: doyum-restaurant.de Web2:

Mail: Mail2:

Tel: Tel2:

Lat: 52.498125894069 Lng: 13.4172412262131

Kat.: - Fastfood / Imbiss

Prio: MeinTip Status: Ok

Preis: 1-günstig 2-preiswert 3-normal 4-sehrteuer

Zuweisen Speichern Details Verorten SetPoIData

DB-Id: 523eddd4-1132-4bfa-ad6d-34cc3b1f62c0

NIGHTLY (need VPN) - Version 26.05.08

DB Buchedition: See70c1f-e069-4d2e-9e4e-b1244ee855d7
Berlin, Auflage 8, Print 2026

Tools Digi

Ingest Bookmark FixOdt

IngestDBPOI POIIngest HxPOIIngest RefPOIDB

CheckPOIDB CreatePOIDB BulkSetPOI

☒ Smart

Bookmark(Tag) Listen

Poi POIEntry POIRef Validate

Anzahl: 8

Type	Bookmark	XmlText	Fehler
☒	Poi8	Doyum Grillhaus	Valide
☒	Poi7	Curry 36	Valide
☒	Poi6	Nobelhart & Schri	Valide
☒	Poi5	Markthalle Neun	Valide
☒	Poi4	Thaipark	Valide
☒	Poi3	Wilhelm Hoeck 11	Valide
☒	Poi2	Markthalle Neun	Valide
☒	Poi1	Privatbrauerei ar	Valide

LibreOffice

Bookmark(Tag) Daten

View: Attribute vom bookmark(Lesezeichen):

1. von ref
2. alle erlauben, doch nicht benutzt

Zur Verwendung:

- Navigator: Doppelklick auf das bookmark
- Text: Wort des bookmarks anklicken
- Text: Klick auf die Klammer des bookmarks

NIGHTLY (need VPN) - Version 26.05.08

POI DB-Daten

Name:

Str.: Nr.:

Ort: PLZ: Land:

Web: Web2:

Mail: Mail2:

Tel: Tel2:

Lat: Lng:

Kat.:

Prio: Status:

Hotel: Preis:

Zuweisen Speichern Details Verorten SetPoIData

DB-Id:

NIGHTLY (need VPN) - Version 26.05.08

Tools Digi

Migration Ingest Bookmark FixOdt

IngestDBPOI POIIngest HxPOIIngest RefPOIDB

CheckPOIDB CreatePOIDB BulkSetPOI

☒ Smart

Bookmark(Tag) Listen

POIEntry POIRef Validate

Anzahl: 8

Type	Bookmark	XmlText	Fehler
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Menu:

s MMV Window Help

Metadata Document/DB und Action

Tag As

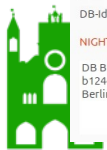
Log

Tools

Alt+A

Shortcuts:

ShortCuts:		
- Panel/Menu	- Button	-> Shortcut
- MMV	- Tag as	-> Alt+A (Windows/Ubuntu/Mac)
- POI DB-Daten	- SetPoIData	-> Alt+P (Windows/Ubuntu/Mac)
- Tools Digi	- BulkSetPoIData	-> Alt+B (Windows/Ubuntu/Mac)



Solutions to Problems Encountered During Development

- Debugging loses connection to the extension, even when I do it via the PyCharm terminal itself
temporary solution: detailed logs to identify errors more quickly
- More than one document make problems with loading, better by associate the actual working document, treading is here missing
- Shortcuts Mac Alt => Option not work



Related Bugs I

- **Bug 171883** - Bookmarks are deleted when saved as .doc or .docx (2007)
Problem: meta-fields are not supported closed because we deleted them before save as .doc or .docx - **RESOLVED DUPLICATE** of bug 172501
- **Bug 172501** - DOCX: missing export of text:meta-field (possible regression) - **RESOLVED WONTFIX**
- **Bug 172611** - zoom webview multiple pages writer freezes completely or crashes - **UNCONFIRMED**



Related Bugs II

- **Bug 172000** - user-defined index lost \f x - **UNCONFIRMED**
- **Bug 172011** - Libredocument crashes when I click on a specific part of the text (Index and Bookmark with RDF) - **RESOLVED NOTOURBUG**
- **Bug 171222** - Open .doc file .wmf/.eps/.tiff imagepath is incorrect - **NEW**
- **Bug 172263** - Missing bookmark boundary marks and labels at fixed line height paragraph formatting - **RESOLVED FIXED**



Related Bugs III

- **Bug 172186** - Fix scrolling of transparent page in Web View - **RESOLVED FIXED**
- **Bug 165909** - Saving particular DOCX back to DOCX takes much longer than before - **RESOLVED FIXED**



Thank you

- **Hossein Nourikhah:** tried to help me with debugging and fixed some of my code
- **Libre Office Forum:** had the idea of migrating comments from Word 2007 tags to ODT bookmarks
- **László Németh:** has been a great help to me with managing bookmarks, parsing RDF data, the prototype and all other queries, resolve issues
- **Rade Josovic:** Independentsoft (C# framework for ODT documents): They have integrated custom.rdf so that you can access everything



Thanks, Questions?



Rosemarie Haberecht
Contact: rhaberecht@mobileguides.de

Karsten Seidel
Contact: kaseidel@mobileguides.de

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