



# Debugging Calc filter problems

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# Structure of the code

# Structure

- ▼ Code mostly in `sc/source/filters`
  - ▼ ODS => xml
  - ▼ XLS (import/export) => excel
  - ▼ XLSX
    - ▼ Import: oox
    - ▼ Export: excel
  - ▼ ... many more there
- ▼ Shared Code:
  - ▼ `xmloff/` for ODF
  - ▼ `oox/` for OOXML

# How to find the right line in the filter code?

# Finding the right line

- ▼ Find the “correct” method in ScDocument
- ▼ Set a breakpoint
- ▼ Import/export your file
- ▼ Check who is calling this part of the code
- ▼ Start inspecting the code from there
  
- ▼ Grep for XML\_`[uppercase version of element/attribute name]`

ODS

- ▼ Be aware of stream caching (Might hide your bug during debugging)
- ▼ Remove UNO calls from the code if necessary ( good idea even if there is no bug )
- ▼ Be aware of `ScDocument::IsImportingXML` in the core code
  - ▼ Try to avoid using it in new code

XLSX



# XLSX

- ▼ Many temporary storage structures
  - ▼ Hide often the problem behind several uno steps + late import/export
  - ▼ Try to remove temporary data structures if possible
- ▼ Handler and Context class for each feature



Thank you ...

▼ ... for listening!



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