EDITABLE NESTED FIELDS IN WRITER

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Fields

• Writer fields
  - a magic character inside a paragraph in the document model
  - simple mechanism to generate a bit of text

• Word fields
  - field instruction + field result
  - both user editable rich text
  - used for lots of things, e.g. indexes
Fieldmarks

• added to OOo >10 years ago

• representation of Word fields in Writer model, as a kind of bookmark

• Text fieldmark:
  2 dummy characters, with instruction as string property
  - can't actually represent Word fields
Class hierarchy

- sw::WriterListener
- SwClient
- SwModify
- sw::BroadcasterMixin
- sw::BroadcastingModify
- sw::mark::IMark
- sw::mark::IFieldmark
- sw::mark::MarkBase
- sw::mark::Fieldmark
- sw::mark::NonTextFieldmark
- sw::mark::TextFieldmark
- sw::mark::CheckboxFieldmark
- sw::mark::DropDownFieldmark
- sw::mark::DateFieldmark
- sw::mark::FieldmarkWithDrop
- sw::mark::DropDownFieldmark
Fixing that...

• added 3rd dummy character CH_TXT_ATR_FIELDSEP
  - can now nest fields in field instruction
• keep fieldmarks consistent when editing (overlapping selections)
• working Undo/Redo
• removed some defensive programming, deployed some asserts
  - lots of bugs fixed
    • [control characters inserted as text]
• Office::Common::Filter::Microsoft::Import::ForceImportWWFieldsAsGenericFields mode to suppress converting Word fields to Writer fields in RTF/DOCX import
Example nested field
Future Work

- hide the field instruction (or result) in the document view
- expand the field instruction into a new result (far future...)