Impress: Interoperability of Tab Stops

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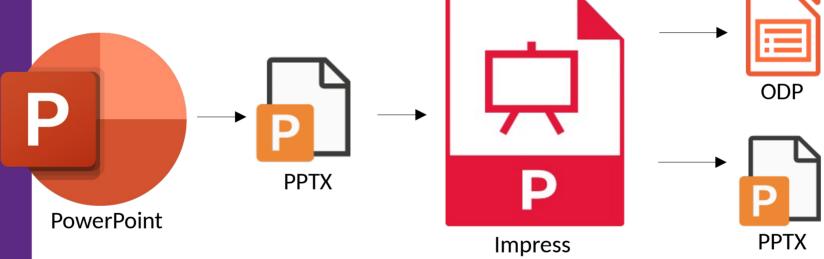






Interoperability with OOXML











0 1 2 3 4 5 6
0 1 2 3 4 5 6
PowerPoint

0 1 2 3 4 5 6
0 1 2 3 4 5
Impress







Breakdown of Tab Stops









The Plan

- 1) Document Model
- 2) Make EditEngine consider this new property
- 3) Expose the UNO API
- 4) Import/export for PPTX
- 5) Import/export for ODF
- 6) Connect loose ends in the UI







1) Document Model

Paragraph Styles

• • •

- Tab Stop Item
 - Tab Stop List
 - position
 - alignment

...

Tab Stop Distance

```
class SvxTabStopItem : SfxPoolItem
{
    SvxTabStopArr maTabStops;
    sal_Int32 mnDefaultDistance;
}
```

```
bool SvxTabStopItem::QueryValue( ... ) const
{
    ...
}

bool SvxTabStopItem::PutValue( ... )
{
    ...
}
```

. . .







2) Make EditEngine consider this new property

```
//editeng/source/editeng/impedit3.cxx:1050
case EE_FEATURE_TAB:
  {...}
  aCurrentTab.aTabStop =
      pNode->GetContentAttribs().FindTabStop(nCurPos, aEditDoc.GetDefTab());
  {...}
break;
//editeng/source/editeng/editdoc.cxx:1821
SvxTabStop ContentAttribs::FindTabStop( sal Int32 nCurPos, sal uInt16
nDefTab )
  const SvxTabStopItem& rTabs = GetItem( EE_PARA_TABS );
  {...}
  // if there's a default tab size defined for this item use that instead
  if (rTabs.GetDefaultDistance())
    nDefTab = rTabs.GetDefaultDistance();
  {...}
  return aTabStop;
```





4) Import & export for PPTX

Paragraph Properties → Default Tab Size





5) Import & export for ODF

Paragraph Properties → tab-stop-distance





6) Connect loose ends in the UI



```
// svx/source/dialog/svxruler.cxx:1004
void SvxRuler::UpdateTabs()
{
    {...}
    tools::Long lCurrentDefTabDist = lDefTabDist;
    if(mxTabStopItem->GetDefaultDistance())
        lCurrentDefTabDist = mxTabStopItem->GetDefaultDistance();
    tools::Long nDefTabDist = ConvertHPosPixel(lCurrentDefTabDist);
    {...}
}
```

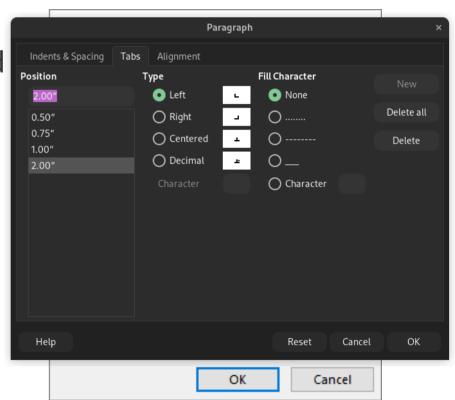


What's left?



 No UI to set paragraph scoped tab-stop-distance

 Writer doesn't know about paragraph scoped tab-stopdistance





Thank you!

By Sarper Akdemir

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