Package 'svSweave'

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Type Package

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Title SciViews GUI API - Sweave functions

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Depends R (>= 2.6.0), knitr

Imports utils

Description Supporting functions for the GUI API (Sweave functions)

License GPL-2

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svSweave-package *SciViews GUI API - Sweave functions*

Description

The SciViews svSweave package provides additional function to use Sweave with LyX and SciViews-LyX.

Details

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cleanLyxRnw	*Clean up, weave or tangle Sweave files produced by LyX with the SciViews Sweave module*

Description

These functions process .Rnw files produced by LyX and the SciViews Sweave module (not the standard Sweave module provided with LyX <= 2.0.0!) The SciViews-LyX extension defines rchunk commands to contain R chunks (embedded R code processed by Sweave). Unfortunately, LyX use to write two line feed for each line of code, introducing extra lines in the R chunks. Moreover, tabulations are interpreted as 8 spaces, while R code use to consider a tabulation as equivalent to 4 spaces. cleanLyxRnw() corrects these little problems, and it should not affect R noweb files produced by a different software.

Usage

```
cleanLyxRnw(RnwCon, RnwCon2 = RnwCon, encoding = "UTF-8")

weaveLyxRnw(file, driver = RweaveLatex(), syntax = getOption("SweaveSyntax"),
    encoding = "UTF-8", width = 80, useFancyQuotes = TRUE,
    logFile = file.path(tempdir(), ".lyxSweave.log"), ...)
knitLyxRnw(file, encoding = "UTF-8", width = 80, useFancyQuotes = TRUE,
    logFile = file.path(tempdir(), ".lyxSweave.log"), ...)

tangleLyxRnw(file, driver = Rtangle(), syntax = getOption("SweaveSyntax"),
    encoding = "UTF-8", width = 80, useFancyQuotes = TRUE, annotate = TRUE,
    logFile = file.path(tempdir(), ".lyxSweave.log"), ...)
purlLyxRnw(file, encoding = "UTF-8", width = 80, useFancyQuotes = TRUE,
    logFile = file.path(tempdir(), ".lyxSweave.log"), ...)
```

Arguments

RnwCon	a connection object or a character string corresponding to the path to a R noweb file to be read.
RnwCon2	idem, but where the cleaned up R noweb file should be written (by default, on the same file or connection).
encoding	the encoding of the .Rnw file. It is UTF-8 by default, but you can change it here
file	the Sweave source file
driver	the actual function to do the process, see ?Sweave
syntax	NULL or an object of class SweaveSyntax or a character string with its name, see ?Sweave
width	the width used for outputs, 80 characters by default
useFancyQuotes	do we use fancy quotes in R outputs?
annotate	is the R code extracted from the .Rnw file annotated?
logFile	the file to use to log results of weaving/tangling the document
...	further arguments passed to the driver's setup function of Sweave() or Stangle()

Value

For cleanLyxRnw(), a list for Sweave options found in the document; NULL for the other functions: these functions are invoked for their side effects. The function weaveLyxRnw() uses the standard Sweave driver (but it uses knitr for LyX documents that use the SciViews Knitr module), while knitLyxRnw() does the same, but using the knitr driver. Similarly, purlLyxRnw() is the knitr counterpart of tangleLyxRnw() standard tangling function.

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