Package ‘RweaveExtra’

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Type Package

Title Sweave Drivers with Extra Tricks Up their Sleeves

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Description *The package is deprecated. It uses the standard drivers on R >= 4.6.0 since they incorporate all the functionalities below.* Weave and tangle drivers for Sweave extending the standard drivers. RweaveExtraLatex and RtangleExtra provide options to completely ignore code chunks on weaving, tangling, or both. Chunks ignored on weaving are not parsed, yet are written out verbatim on tangling. Chunks ignored on tangling may be evaluated as usual on weaving, but are completely left out of the tangled scripts. The driver RtangleExtra also provides options to control the separation between code chunks in the tangled script, and to specify the extension of the file name (or remove it entirely) when splitting is selected.

Depends R (>= 4.1.0)

Imports utils

License GPL (>= 2)

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`RweaveExtra-package` *Sweave Drivers with Extra Tricks Up their Sleeves*

Description

The package is deprecated. It uses the standard drivers on R >= 4.6.0 since they incorporate all the functionalities below. Weave and tangle drivers for Sweave extending the standard drivers. RweaveExtraLatex and RtangleExtra provide options to completely ignore code chunks on weaving, tangling, or both. Chunks ignored on weaving are not parsed, yet are written out verbatim on tangling. Chunks ignored on tangling may be evaluated as usual on weaving, but are completely left out of the tangled scripts. The driver RtangleExtra also provides options to control the separation between code chunks in the tangled script, and to specify the extension of the file name (or remove it entirely) when splitting is selected.

Details

Note: the package is deprecated. It uses the standard drivers on R >= 4.6.0 since they incorporate all the functionalities below.

The `RweaveExtraLatex` and `RtangleExtra` drivers extend the standard `Sweave` drivers `RweaveLatex` and `Rtangle`, respectively. They are selected through the `driver` argument of `Sweave`.

The drivers provide additional options to completely ignore code chunks on weaving, tangling, or both. Chunks ignored on weaving are not parsed and are written out verbatim on tangling. Chunks ignored on tangling are processed as usual on weaving, but completely left out of the tangled scripts. The driver `RtangleExtra` furthermore provides two additional options: `chunk.sep` to control the separation (or remove it entirely) between code chunks in the tangled script; `extension` to specify the extension of the file name (or remove it entirely) when splitting is selected.

In a literate programming workflow, the additional options allow to include code chunks in a file such as:

- code that is not parsable by R (say, because of errors inserted for didactic purposes);
- code in another programming language entirely (say, a shell script to start an analysis);
- code for a Shiny app.

With the standard drivers, using option `eval = FALSE` results in code being commented out in tangled scripts files. Chunks may be omitted on tangling with `drop.evalFALSE = TRUE`, but only provided the chunk is not evaluated on weaving. Therefore, the standard drivers have no provision to either omit a chunk on weaving and tangle it as is, or to process a chunk on weaving but omit it on tangling.

Author(s)

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RtangleExtra — *R Driver for Stangle with Extra Tricks*

Description

A driver for `Sweave` extending the standard driver `Rtangle` with additional code chunk options.

Usage

```
RtangleExtra()

RtangleExtraSetup(file, syntax, output = NULL, annotate = TRUE,
                  split = FALSE, quiet = FALSE, drop.evalFALSE = FALSE,
                  ignore.on.tangle = FALSE, ignore = FALSE,
                  tangle = !ignore.on.tangle, extension = TRUE,
                  chunk.sep = "\n\n", ...)

RtangleExtraRuncode(object, chunk, options)
```

Arguments

`file`	name of Sweave source file; see the description of the corresponding argument of `Stangle`.
`syntax`	an object of class `SweaveSyntax`; see `Rtangle`.
`output`	name of output file used unless `split = TRUE`; see `Rtangle`.
`annotate`	a logical or `function`; see `Rtangle`.
`split`	split output into a file for each code chunk?
`quiet`	logical to suppress all progress messages.
`drop.evalFALSE`	logical; see `Rtangle`.
`ignore.on.tangle`	if `TRUE`, the code chunk is ignored entirely.
`ignore`	an alternative way to set both `ignore.on.weave` of `RweaveExtraLatex` and `ignore.on.tangle`.
`tangle`	an *alias* for `!ignore.on.tangle`.
`extension`	extension to use for the file name, without the leading dot, when splitting is selected. If `TRUE`, the default extension of `Rtangle` is used (the 'engine', usually 'R'). If `FALSE`, no extension is added to the file name.

chunk.sep	text to use as separator between code chunks. The default value reproduces the output of the standard Rtangle driver. If FALSE, no separator is added between chunks.
...	see RweaveLatex.
object	an object created by the setup function of the driver; see RweaveLatex.
chunk	text of a code chunk.
options	named list of character strings.

Details

See RweaveLatex for details on Sweave drivers.

RtangleExtra is the Stangle driver. On R >= 4.6.0 it is identical to Rtangle since the latter now supports the same functionalities. On earlier versions of R, RtangleExtraSetup and RtangleExtraRuncode are the functions used for the setup and runcode elements of the driver, respectively, and the driver uses the functions of the standard Rtangle driver for the other elements.

All RtangleSetup arguments may be used as arguments in a Stangle call using the RtangleExtra driver.

Chunks ignored on tangling are not written out to script files, but remain processed normally on weaving (unless ignore = TRUE). Therefore, chunks may still use eval = TRUE for weaving purposes, yet not be tangled.

The argument extension is specially useful with ignore.on.weave = TRUE of RweaveExtraLatex to include code or text that the engine would not be able to parse.

The argument chunk.sep offers control over the chunk separator that the standard Rtangle driver does not. The chunk separator is added *before* all chunks, except the first one. Therefore, no chunk separator follows the last chunk. No newline (aka 'line feed') is added to the value of the argument. Using control characters (e.g. '\n') in a code chunk option is not supported.

Value

Named list of five functions; see Sweave or the 'Sweave User Manual' vignette in the **utils** package.

Author(s)

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See Also

RweaveExtraLatex, Rtangle, Sweave.

Examples

```
testfile <- system.file("examples", "example-extra.Rnw",
                        package = "RweaveExtra")
```

```
## Check the contents of the file
if (interactive()) file.show(testfile)

## Tangle the file in the current working directory
Stangle(testfile, driver = RtangleExtra())

## View tangled file
if (interactive()) file.show("example-extra.R")

## Reduce to spacing between code chunks to a single
## blank line
Stangle(testfile, driver = RtangleExtra(), chunk.sep = "\n")
if (interactive()) file.show("example-extra.R")

## The effect of 'chunk.sep=FALSE' in the second chunk
## is more interesting without the annotations
Stangle(testfile, driver = RtangleExtra(),
        annotate = FALSE, chunk.sep = "\n")
if (interactive()) file.show("example-extra.R")

## Use 'extension=sh' with 'ignore.on.weave=TRUE', and
## the options 'split=TRUE' and 'prefix=FALSE' of Stangle
## to extract the shell script to a file 'hello.sh'
Stangle(testfile, driver = RtangleExtra(),
        split = TRUE, annotate = FALSE)
if (interactive()) file.show("hello.sh")
```

`RweaveExtraLatex` *R/LaTeX Driver for Sweave with Extra Tricks*

Description

A driver for `Sweave` extending the standard driver `RweaveLatex` with additional code chunk options.

Usage

```
RweaveExtraLatex()

RweaveExtraLatexSetup(file, syntax, output = NULL, quiet = FALSE,
                      debug = FALSE, stylepath, ignore.on.weave = FALSE,
                      ignore = FALSE, weave = !ignore.on.weave, ...)

RweaveExtraLatexRuncode(object, chunk, options)
```

Arguments

`file`	name of Sweave source file; see the description of the corresponding argument of `Sweave`.

syntax	an object of class SweaveSyntax; see RweaveLatex.
output	name of output file; see RweaveLatex.
quiet	if TRUE all progress messages are suppressed; see RweaveLatex.
debug	if TRUE, input and output of all code chunks is copied to the console; see RweaveLatex.
stylepath	see RweaveLatex.
ignore.on.weave	if TRUE, the code chunk is ignored entirely, i.e., neither parsed nor evaluated.
ignore	an alternative way to set both ignore.on.weave and ignore.on.tangle of RtangleExtra.
weave	an *alias* for !ignore.on.weave.
...	see RweaveLatex.
object	an object created by the setup function of the driver; see RweaveLatex.
chunk	text of a code chunk.
options	named list of character strings.

Details

See RweaveLatex for details on Sweave drivers.

RweaveExtra is the Sweave driver. On R >= 4.6.0 it is identical to RweaveLatex since the latter now supports the same functionalities. On earlier versions of R, RweaveExtraSetup and RweaveExtraRuncode are functions for the setup and runcode elements of the driver, respectively, and the driver uses the functions of the standard RweaveLatex driver for the other elements.

Chunks ignored on weaving are not parsed and are not evaluated, but they are written out on tangling as normal code chunks (unless ignore=TRUE).

If ignore.on.weave or ignore is FALSE, the code chunk is processed using the standard driver RweaveLatex with its options.

Value

Named list of five functions; see Sweave or the 'Sweave User Manual' vignette in the **utils** package.

Author(s)

Vincent Goulet, based on work by Friedrich Leisch and R-core.

See Also

RtangleExtra, RweaveLatex, Sweave.

Examples

```
testfile <- system.file("examples", "example-extra.Rnw", package = "RweaveExtra")

## Check the contents of the file
if(interactive()) file.show(testfile)

## Weave, then tangle the file in the current working directory
Sweave(testfile, driver = RweaveExtraLatex())
Stangle(testfile, driver = RtangleExtra())

## View weaved and tangled files
if(interactive()) file.show("example-extra.tex")
if(interactive()) file.show("example-extra.R")
```

SweaveGetSourceName *File Processed by Sweave or Stangle*

Description

Extract the name of the file currently processed by `Sweave` or `Stangle` in a non-interactive session.

Usage

```
SweaveGetSourceName()
```

Details

The function returns the name of the source file being processed by `Sweave` or `Stangle` when the tool is invoked from the command line through either:

1. an expression passed to `R -e` or `Rscript`;
2. `R CMD Sweave` or `R CMD Stangle`.

In the first scenario, the filename must be the first, unnamed argument to `Sweave` or `Stangle`.

This function cannot be used from an interactive R session.

Value

Filename as a character string.

Author(s)

Vincent Goulet

Examples

```
testfile <- system.file("examples", "example-source.Rnw",
                        package = "RweaveExtra")

## Check the contents of the file
if (interactive()) file.show(testfile)

## Sweave the file in a separate process
expr <- paste0("Sweave('", testfile, "', ",
               "encoding = 'utf-8')")
system2("R", c("-e", paste0("\"", expr, "\"")))

## View woven file
if (interactive()) file.show("example-source.tex")

## Stangle was called from within Sweave in the file
if (interactive()) file.show("example-source.R")

## Repeat using 'R CMD Sweave'
system2("R", c("CMD", "Sweave", testfile, "--encoding=utf-8"))
if (interactive()) file.show("example-source.tex")
if (interactive()) file.show("example-source.R")

## Do not use the function interactively
## Not run: SweaveGetSourceName()
```

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