Package 'DynDoc'

November 11, 2026

Title Dynamic document tools

Version 1.90.0

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Description A set of functions to create and interact with dynamic documents and vignettes.

Depends methods, utils

Imports methods

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LazyLoad Yes

Collate tangleToR.R DynDoc.R vignetteClass.R vigList.R vignetteCode.R zzz.R

biocViews ReportWriting, Infrastructure

git_url https://git.bioconductor.org/packages/DynDoc

git_branch RELEASE_3_23

git_last_commit 79c806e

git_last_commit_date 2026-04-28

Repository Bioconductor 3.23

Date/Publication 2026-11-11

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`chunkList-class` *Class "chunkList"*

Description

This class is essentially a wrapper for the `codeChunk` class. It contains all of the `codeChunks` from a vignette file.

Objects from the Class

Objects can be created by calls of the form `new("chunkList", ...)`.

Slots

`chunks`**:** Object of class `"list"` Stores a list of `codeChunk` objects, representing all of the code chunks from a vignette file.

`evalEnv`**:** Object of class `"environment"` An environment used for evaluation of the code chunks.

Methods

show `signature(object = "chunkList")`: Displays verbose information about the code chunks

chunks `signature(object = "chunkList")`: Retrieves a list of `codeChunk` objects

getAllCodeChunks `signature(object = "chunkList")`: Collapses all of the code chunks into one block of code and returns this

getChunk `signature(object = "chunkList")`: Retrieves a specific code chunk

numChunks `signature(object = "chunkList")`: Returns the number of code chunks in this object

setChunk<- `signature(object = "chunkList", value="character")`: Changes the code in a given `codeChunk` contained by this object

summary `signature(object = "chunkList")`: A less verbose display of information about the object

evalChunk `signature(object = "chunkList",pos="numeric")`: Evaluates the code chunk at the specified position in the `chunkList` object

Author(s)

Jeff Gentry

See Also

`Sweave`, `codeChunk`, `vignetteCode`

Examples

```
library("utils")
testfile <- system.file("Sweave", "Sweave-test-1.Rnw", package="utils")
z <- Stangle(testfile,driver=tangleToR)
```

---

codeChunk-class *Class "codeChunk"*

Description

A class to wrap necessary information for a code chunk from a vignette file.

Objects from the Class

Objects can be created by calls of the form `new("codeChunk", ...)`.

Slots

`chunkName`**:** Object of class `"character"` The name (if one exists) for the code chunk

`chunk`**:** Object of class `"character"` The code from the code chunk

`options`**:** Object of class `"SweaveOptions"` Any options that were set at the time the code chunk appears in the vignette file

Methods

evalChunk `signature(object = "codeChunk",env="environment")`: Will evaluate the code in the code chunk using the environment specified. If no environment is specified, .GlobalEnv is used.

show `signature(object = "codeChunk")`: Displays the information for the code chunk

chunk<- `signature(object = "codeChunk",value="character")`: Edits the chunk slot of the object

chunk `signature(object = "codeChunk")`: Returns the chunk slot of the object

chunkName `signature(object = "codeChunk")`: Returns the name of the code chunk

getOptions `signature(object = "codeChunk")`: Returns the actual options from the `options` slot.

SweaveOptions `signature(object = "codeChunk")`: Returns the object stored in the `options` slot.

Author(s)

Jeff Gentry

See Also

`Sweave`, `SweaveOptions`, `chunkList`

Examples

```
require("utils")
testfile <- system.file("Sweave", "Sweave-test-1.Rnw", package="utils")
z <- Stangle(testfile,driver=tangleToR)
getChunk(z,1)
```

DynDoc-class *A Class For Dynamic Documents*

Description

The DynDoc class is used to represent dynamic documents and vignettes in R.

Slots

`indexEntry`: Object of class `"character"` The IndexEntry value from the document file

`title`: Object of class `"character"` The name of the document

`path`: Object of class `"character"` The path to the locally stored file

`pdfPath`: Object of class `"character"` The path to a PDF rendition of the document

`depends`: Object of class `"character"` Any package dependencies for the document

`requires`: Object of class `"character"` Any requires level dependencies for the document

`suggests`: Object of class `"character"` Any suggests level dependencies for the document

`keywords`: Object of class `"character"` Any keywords for the document

`codeChunks`: Object of class `"chunkList"` The code chunks contained in this document

Methods

show `signature(object = "DynDoc")`: Display information about the dynamic document

summary `signature(object = "DynDoc")`: A more succinct informational display

chunks `signature(object = "DynDoc")`: Returns the code chunks - currently in only for historical compatability with old code

codeChunks `signature(object = "DynDoc")`: Returns the code chunks

evalChunk `signature(object = "DynDoc")`: Will evaluate the R code contained in a chunk

getChunk `signature(object = "DynDoc")`: Retrieves a specific code chunk

getDepends `signature(object = "DynDoc")`: Obtain the Depends slot of the object

getKeywords `signature(object = "DynDoc")`: Obtain the keywords slot of the object

getRequires `signature(object = "DynDoc")`: A get method for the requires slot of this object

getSuggests `signature(object = "DynDoc")`: Obtain the suggests slot of this object

indexEntry `signature(object = "DynDoc")`: Obtain the indexEntry slot of this object

numChunks `signature(object = "DynDoc")`: Returns the number of code chunks for this document

path `signature(object = "DynDoc")`: Obtain the path slot of this object

pdfPath `signature(object = "DynDoc")`: Obtain the pdfPath slot of this object

setChunk<- `signature(object = "DynDoc")`: Change the code for one of the code chunks.

Author(s)

Jeff Gentry

See Also

Sweave

`getPkgVigList` *A function to retrieve a listing of package vignettes*

Description

Functionality to retrive vignette metadata, on a per-vignette or a per-package level.

Usage

```
getPkgVigList(pkg, vigDescFun=baseVigDesc, vigPath = "/doc/",
vigExt="\\.(Rnw|Snw|rnw|snw|Rtex)$", pkgVers = TRUE)

getVigInfo(vig,pkg=NULL, vigDescFun=baseVigDesc, pkgVers=TRUE)
```

Arguments

`pkg`	Path to a package directory
`vig`	Filename of a vignette
`vigDescFun`	Function to provide output string for display
`vigPath`	Path to directory that contains vignettes in the package
`vigExt`	Regular expression pattern to match vignette file extensions
`pkgVers`	Record the package version with the other vignette metadata

Details

getPkgVigList: This function will look at all vignette files in the directory `<pkg>/<vigPath>`. It will then extract any header information (using `getVigInfo`), and return a list of this information.

getVigInfo: This function will retrieve the metadata from a particular vignette file. Any line starting with '%\Vignette' is taken to be metadata. Common values include VignetteIndexEntry (required), VignetteKeywords, VignetteDepends, etc. A named list of lists is returned to the user, where the names correspond to the particular metadata variable.

Both functions take a parameter `baseVigDesc`, which is a function to provide the output string to correspond with a vignette summary. This function is directly called by `getVigInfo`. It takes one parameter, which is a vigInfo list from `getVigInfo`.

Author(s)

Jeff Gentry

See Also

vignette

Examples

```
## Not run:
   ## We need a vignette for this to work
   dynPath <- system.file(package="DynDoc")
   vigList <- getPkgVigList(dynPath)
   vigList

## End(Not run)
```

---

getVignette *A function to handle vignette files*

Description

This function will take a vignette file and return a Vignette object in R which can be manipulated further.

Usage

```
getVignette(vigPath, eval = TRUE)
```

Arguments

vigPath	The file path of the vignette file
eval	Whether or not to evaluate the code chunks

Details

This function should still be considered experimental

Value

A valid Vignette object representing this vignette

Author(s)

Jeff Gentry

See Also

Vignette-class

getVignetteCode *Functionality to manage code chunks from a vignette*

Description

These functions allow for processing and management of vignette code chunks within R. Users can directly manipulate the code chunks, as well as evaluate them at their option.

Usage

```
getVignetteCode(vigPath, evalEnv = new.env())
editVignetteCode(vigCode, pos, code)
```

Arguments

vigPath	File path of vignette file to process
evalEnv	An environment to use for chunk evaluations
vigCode	The vignetteCode object to edit
pos	The position of the code chunk to edit
code	The new code chunk

Details

getVignetteCode: This function will call Stangle using the tangleToR driver in order to retrieve the code chunks from the specified vignette file. It will then compile the other pertinent information and return a new vignetteCode object.

editVignetteCode: This function will edit a code chunk contained within a vignetteCode and return a new object representing that change. The evaluation environment in the new object is a copy of the original as well, *not* the same environment.

Author(s)

Jeff Gentry

See Also

Sweave,vignetteCode,tangleToR

`getVignetteHeader` *A function to read vignette header information*

Description

Given a vignette filename, will read in the vignette header metadata.

Usage

```
getVignetteHeader(vig, field)
hasVigHeaderField(vig, field="VignetteIndexEntry")
```

Arguments

`vig`	Vignette filename
`field`	A specific field to extract

Details

The `getVignetteHeader` function will extract the metadata from a vignette file and return it as a named list, where the names of the list elements correspond to the metadata fields, and the elements themselves the values. If a specific field is desired, it can be specified with the 'field' argument.

The `hasVigHeaderField` function is a simple wrapper around `getVignetteHeader` and will most likely be removed in the very near future. It just is a boolean to report if a given header field exists or not.

Author(s)

Jeff Gentry

`SweaveOptions-class` *Class "SweaveOptions", a class to handle options in Sweave*

Description

A small class designed to hold a set of Sweave options

Objects from the Class

Objects can be created by calls of the form `new("SweaveOptions", ...)`.

Slots

`options`**:** Object of class `"list"` A list of strings representing options from a Sweave document.

Methods

show `signature(object = "SweaveOptions")`: Outputs the options

getOptions `signature(object = "SweaveOptions")`: Retrieves the options

numOptions `signature(object = "SweaveOptions")`: Returns the number of options

Author(s)

Jeff Gentry

See Also

Sweave, codeChunk

---

tangleToR *An Sweave driver to retrieve code chunks*

Description

A driver function for `Sweave` which will provide the user with code chunks from a vignette file within R. Functionality is very similar to that provided by `Stangle` except that an R object is returned as opposed to the chunks being written to a file.

Usage

```
tangleToR()
```

Value

An object of type `chunkList` is returned, which contains the code chunks from the vignette file.

Author(s)

Jeff Gentry

See Also

Stangle,Sweave, chunkList

Examples

```
require("utils")
testfile <- system.file("Sweave", "Sweave-test-1.Rnw", package="utils")
z <- Stangle(testfile,driver=tangleToR)
```

Vignette-class *A Class To Represent Vignettes*

Description

This is a class that will represent a vignette file in R, it extends the DynDoc class

Slots

`package`: Object of class `"character"` The package that this vignette is associated with

`vigPkgVersion`: Object of class `"VersionNumber"` The version number for this vignette's package

`indexEntry`: Object of class `"character"`, `from` `class` `"DynDoc"` The VignetteIndexEntry field from the document file

`title`: Object of class `"character"`, `from` `class` `"DynDoc"` The title of the vignette

`path`: Object of class `"character"`, `from` `class` `"DynDoc"` The path to the vignette file stored locally

`pdfPath`: Object of class `"character"`, `from` `class` `"DynDoc"` The path to a PDF representation of the vignette

`depends`: Object of class `"character"`, `from` `class` `"DynDoc"` Any package dependencies for this vignette

`requires`: Object of class `"character"`, `from` `class` `"DynDoc"` Any requires level dependencies for this vignette

`suggests`: Object of class `"character"`, `from` `class` `"DynDoc"` Any suggests level dependencies for this vignette

`keywords`: Object of class `"character"`, `from` `class` `"DynDoc"` Any keywords for this vignette

`codeChunks`: Object of class `"chunkList"`, `from` `class` `"DynDoc"` A list of code chunks from this vignette

Extends

Class `"DynDoc"`, directly.

Methods

package `signature(object = "Vignette")`: Retrieves the package name that this vignette is associated with

vigPkgVersion `signature(object = "Vignette")`: Retrieves the version of the package that this vignette is associated with

Note

The `Vignette` class is extending the `DynDoc` class by further associating the `DynDoc` concepts with a specific R package.

Author(s)

Jeff Gentry

See Also

DynDoc-class, Sweave

---

vignetteCode-class *Class "vignetteCode"*

Description

This class represents the code chunks and other related information from a vignette file. It also provides for the ability to evaulate the code chunks in a separate environment.

Objects from the Class

Objects can be created by calls of the form `new("vignetteCode", ...)` Also, a helper function `getVignetteCode` is provided that will do all of the dirty work required to retrieve a `vignetteCode` object from a vignette file.

Slots

`chunkList`: Object of class `"chunkList"` Holds the code chunks from the vignette file

`path`: Object of class `"character"` The path of the vignette file

`vigPackage`: Object of class `"character"` The package (if appropriate) that the vignette came from

`depends`: Object of class `"character"` Any package dependencies for the vignette

`evalEnv`: Object of class `"environment"` An environment used for evaluation of the code chunks.

Methods

show `signature(object = "vignetteCode")`: Displays information about the code contained in the object

chunkList `signature(object = "vignetteCode")`: Retrieves the `chunkList` object.

chunks `signature(object = "vignetteCode")`: Retrieves the actual code chunks (not wrapped by the `chunkList` class)

getDepends `signature(object = "vignetteCode")`: Returns the list of package dependencies for this vignette

evalChunk `signature(object = "vignetteCode",pos="numeric")`: Will evaulate the specified code chunk in the `evalEnv` environment

evalEnv `signature(object = "vignetteCode")`: Returns the evaluation environment

getChunk `signature(object = "vignetteCode",pos="numeric")`: Returns the `codeChunk` object representing the specified code chunk position

numChunks `signature(object = "vignetteCode")`: Returns the number of chunks in the object

vigPackage `signature(object = "vignetteCode")`: Returns the package the vignette is a part of

path `signature(object = "vignetteCode")`: Returns the local file path to the vignette

setChunk<- `signature(object = "vignetteCode",pos="numeric", value="character")`: Resets the code chunk specified by `pos` to contain the code specified by `value`

summary `signature(object = "vignetteCode")`: A less verbose output of information then with `show`

Author(s)

Jeff Gentry

See Also

`Sweave`, `getVignetteCode`, `editVignetteCode`, `chunkList`

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