

biocViews

October 25, 2011

BiocView-class *Class "BiocView"*

Description

Representation of of Bioconductor "view".

Objects from the Class

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

Slots

name: Object of class "character" giving the name of the view.

subViews: Object of class "character" giving the names of the subviews of this view.

parentViews: Object of class "character" giving the names of the views that are this view's parents.

Title: Object of class "character" giving longer description of view?

reposRoot: Object of class "character" URL for repository

homeUrl: Object of class "character" ?

htmlDir: Object of class "character" ?

packageList: Object of class "list" consisting of PackageDetail-class objects

Extends

Class "RepositoryDetail", directly. Class "Htmlized", directly.

Methods

coerce signature(from = "BiocView", to = "rdPackageTable"):...

htmlDoc signature(object = "BiocView"):...

htmlFilename signature(object = "BiocView"):...

htmlValue signature(object = "BiocView"):...

show signature(object = "BiocView"):...

Author(s)

Seth Falcon

Htmlized-class *Class "Htmlized"*

Description

A virtual class for HTML serialization method dispatch.

Objects from the Class

A virtual Class: No objects may be created from it.

Methods

htmlDoc signature(object = "Htmlized"): Return the html-ized representation of object as a complete HTML document.

Author(s)

Seth Falcon

PackageDetail-class
Class "PackageDetail"

Description

Representation of R package metadata. Most slots correspond to fields in a package's DESCRIPTION file.

Objects from the Class

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

Slots

Package: Object of class "character" see DESCRIPTION

Version: Object of class "character" see DESCRIPTION

Title: Object of class "character" see DESCRIPTION

Description: Object of class "character" see DESCRIPTION

Author: Object of class "character" see DESCRIPTION

Maintainer: Object of class "character" see DESCRIPTION

Depends: Object of class "character" see DESCRIPTION

Imports: Object of class "character" see DESCRIPTION

Suggests: Object of class "character" see DESCRIPTION

SystemRequirements: Object of class "character" see DESCRIPTION

License: Object of class "character" see DESCRIPTION

URL: Object of class "character" see DESCRIPTION

biocViews: Object of class "character" see DESCRIPTION

vignettes: Object of class "character" giving paths to vignette pdf files in the repository

vignetteScripts: Object of class "character" giving paths to vignette Stangled R files in the repository

vignetteTitles: Object of class "character" giving the titles of the vignette files in the repository

source.ver: Object of class "character" version string for the source package

win.binary.ver: Object of class "character" version string for the 32-bit Windows binary package

win64.binary.ver: Object of class "character" version string for the 64-bit Windows binary package

mac.binary.leopard.ver: Object of class "character" version string for the OS X Leopard binary package

downloadStatsUrl: Object of class "character" An optional URL for the download history statistics.

manuals: Object of class "character" giving paths to reference manual pdf files in the repository

dependsOnMe: Object of class "character" giving packages found in the repository that depend on this package

importsMe: Object of class "character" giving packages found in the repository that imports this package

suggestsMe: Object of class "character" giving packages found in the repository that suggest this package

functionIndex: Object of class "character" Not used. Intended to hold function index data.

reposFullUrl: Object of class "character" The URL for the full URL of the root of the repository.

reposRoot: Object of class "character" The URL for the root of the repository.

viewRoot: Object of class "character" The URL for the view of the repository.

devHistoryUrl: Object of class "character" The URL for the development changelog.

Extends

Class "Htmlized", directly.

Methods

htmlDoc signature(object = "PackageDetail"): Return an XMLNode instance containing a complete HTML document representation of the package.

htmlFilename signature(object = "PackageDetail"): Return a filename appropriate for the HTML document representation.

htmlValue signature(object = "PackageDetail"): Return XMLNode instance containing an HTML representation of the package.

Details

```
pdAuthorMaintainerInfo-class pdVignetteInfo-class pdDownloadInfo-class
pdDetailsInfo-class pdDescriptionInfo-class pdVigsAndDownloads-class
```

Dummy classes for HTML generation. Each dummy class is a simple extension (it does not add any slots). The purpose of each dummy class is to allow for method dispatch to generate HTML via the `htmlValue` method.

You can convert a `PackageDetail` instance to one of the dummy classes like this:

```
descInfo <- as(pdObj, "pdDescriptionInfo")
```

Author(s)

Seth Falcon

Examples

```
pd <- new("PackageDetail",
  Package="MyFancyPackage",
  Version="1.2.3",
  Title="A Fancy Package",
  Description="This package does fancy things",
  Author="A. Coder",
  Maintainer="A. Coder <acoder@foo.bar.net>",
  Depends="methods",
  Imports="ASimplePackage",
  Suggests="MyDataPackage",
  biocViews="Infrastructure",
  vignettes="vignettes/MyFancyPackage/inst/doc/MFP1.pdf,\nvignettes/MyFancyPackag
  vignetteScripts="vignettes/MyFancyPackage/inst/doc/MFP1.R\nvignettes/MyFancyPac
  vignetteTitles="MFP1 Document,\nMFP2 Document",
  source.ver="src/contrib/MyFancyPackage_1.2.3.tar.gz",
  win.binary.ver="bin/windows/contrib/2.6/MyFancyPackage_1.2.2.zip",
  win64.binary.ver="bin/windows64/contrib/2.6/MyFancyPackage_1.2.2.zip",
  mac.binary.leopard.ver="bin/macosx/leopard/contrib/2.6/MyFancyPackage_1.2.3.tgz
  dependsOnMe=c("PackageThatExposesMe"),
  importsMe=c("AnEvenFancierPackage","AMuchFancierPackage"),
  suggestsMe="PackageThatUsesMeInVignette",
  reposRoot="http://foo.bar.org")

html <- htmlValue(pd)
pd
```

RepositoryDetail-class

Class "RepositoryDetail"

Description

Representation of R package repository index

Objects from the Class

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

Slots

Title: Object of class "character" giving the title for the repository.
reposRoot: Object of class "character" giving the root URL of the repository
homeUrl: Object of class "character" ?
htmlDir: Object of class "character" ?
packageList: Object of class "list" consisting of objects of class PackageDetail-class

Extends

Class "Htmlized", directly.

Methods

htmlDoc signature(object = "RepositoryDetail"): ...
htmlFilename signature(object = "RepositoryDetail"): ...
htmlValue signature(object = "RepositoryDetail"): ...

Author(s)

Seth Falcon

biocViews-package *Categorized views of R package repositories*

Description

Structures for vocabularies and narratives of views. This can be used to create HTML views of the package structure in a Bioconductor repository.

Details

Package: biocViews
Version: 1.11.4
Depends: R (>= 2.4.0), methods, utils
Imports: tools, Biobase, graph (>= 1.9.26), RBGL (>= 1.13.5), XML
Suggests: Biobase
License: Artistic-2.0
URL: <http://www.bioconductor.org/packages/release/BiocViews.html>
biocViews: Infrastructure

Index:

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<code>extractVignettes</code>	Extract pdf vignettes from local package repository
<code>genReposControlFiles</code>	Generate CRAN-style repository control files
<code>getBiocSubViews</code>	Build a list of BiocView objects from a package repository
<code>getBiocViews</code>	Build a list of BiocView objects from a package repository
<code>getPacksAndViews</code>	Parse VIEWS file for views and packages
<code>getSubTerms</code>	Retrieve a term and its children from a vocab DAG
<code>htmlDoc</code>	Create a complete HTML document representation of an object
<code>htmlFilename</code>	Return a filename for an object's HTML representation
<code>htmlValue</code>	HTML Representation of an Object
<code>writeBiocViews</code>	Write a list of BiocView objects to HTML
<code>writeHtmlDoc</code>	Write an XML DOM containing HTML to a file
<code>writePackageDetailHtml</code>	Write HTML files for packages in a CRAN-style repository
<code>writeRepositoryHtml</code>	Write package descriptions and a repository index as HTML
<code>writeTopLevelView</code>	Write the view for the root of a vocabulary to disk
<code>write_REPOSITORY</code>	Write a REPOSITORY control file for a CRAN-style package repository
<code>write_SYMBOLS</code>	Write a SYMBOLS file
<code>write_VIEWS</code>	Write a VIEWS control file for a CRAN-style package repository

The terms of the vocabulary are stored in a DAG, which can be loaded as the serialized data object `biocViewsVocab`. For listing of available terms use function `getSubTerms`.

Further information is available in the following two vignettes:

<code>HOWTO-BCV</code>	Basic package usage
<code>createReposHtml</code>	Further information for repository admins

Author(s)

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Maintainer: Biocore Team c/o BioC user list <bioconductor@stat.math.ethz.ch>

Examples

```
data(biocViewsVocab)
getSubTerms(biocViewsVocab, "AssayTechnologies")
```

biocViewsVocab	<i>Bioconductor Task Views Vocabulary Data</i>
----------------	--

Description

A `graphNEL-class` instance representing the Bioconductor Task Views as a directed graph.

Usage

```
data(biocViewsVocab)
```

Format

The format is: `graphNEL` instance

Details

The source for the vocabulary data is in the dot directory of the package in file `biocViewsVocab.dot`. This is transformed to GXL using the `dot2gxl` command line utility from the `graphviz` package. Then the `fromGXL` function from the `graph` package is used to convert to `graphNEL-class`.

Examples

```
data(biocViewsVocab)
biocViewsVocab
## If you have Rgraphviz available, you can
## plot the vocabulary with plot(biocViewsVocab)
```

<code>extractManually</code>	<i>Extract Rd man pages and build pdf reference manuals from local package</i>
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Description

This function extracts Rd man pages and builds pdf reference manuals from the `man` subdirectory of R source packages archives (`.tar.gz`) found in a local package repository.

All Rd files found in `man` will be extracted and used during the pdf construction process. Only source package archives will be processed. The constructed pdf files will be extracted under `destDir` and will be found in `PKGNAME/man/*.pdf`.

Prior to extraction, all Rd and pdf files in `destDir/PKGNAME/man` will be removed.

Usage

```
extractManually(reposRoot, srcContrib, destDir)
```

Arguments

<code>reposRoot</code>	character vector giving the path to the root of the local CRAN-style package repository
<code>srcContrib</code>	character vector giving the relative path from the <code>reposRoot</code> to the source packages. In a standard CRAN-style repository, this will be <code>src/contrib</code> .
<code>destDir</code>	character vector specifying the directory in which the extracted files will be written. If missing, files will be written to <code><reposRoot>/manuals</code> .

Author(s)

Patrick Aboyoun

`extractVignettes` *Extract pdf vignettes from local package repository*

Description

This function extracts pdf files from the `inst/doc` subdirectory of R source package archives (`.tar.gz`) found in a local package repository.

All pdf files found in `inst/doc` will be extracted. Only source package archives will be processed. The extracted pdf files will be extracted under `destDir` and will be found in `PKGNAME/inst/doc/*.pdf`.

Prior to extraction, all pdf files in `destDir/PKGNAME/inst/doc` will be removed.

Usage

```
extractVignettes(reposRoot, srcContrib, destDir)
```

Arguments

<code>reposRoot</code>	character vector giving the path to the root of the local CRAN-style package repository
<code>srcContrib</code>	character vector giving the relative path from the <code>reposRoot</code> to the source packages. In a standard CRAN-style repository, this will be <code>src/contrib</code> .
<code>destDir</code>	character vector specifying the directory in which the extracted files will be written. If missing, files will be written to <code><reposRoot>/vignettes</code> .

Author(s)

Seth Falcon

`genReposControlFiles`*Generate CRAN-style repository control files*

Description

This function generates control files for CRAN-style repositories. For each path specified in `contribPaths` a `PACKAGES` file is written. In addition, two top-level control files are created:

`REPOSITORY` contains information about the specified `contrib` paths.

`VIEWS` contains metadata for all packages in the repository including the paths to any extracted vignettes, if found. This file is useful for generating HTML views of the repository.

Usage

```
genReposControlFiles(reposRoot, contribPaths)
```

Arguments

`reposRoot` character vector containing the path to the CRAN-style repository root directory.

`contribPaths` A named character vector. Valid names are `source`, `win.binary`, `win64.binary`, `mac.binary`, and `mac.binary.leopard`. Values indicate the paths to the package archives relative to the `reposRoot`.

Author(s)

Seth Falcon

See Also

[write_PACKAGES](#), [extractVignettes](#), [write_REPOSITORY](#), [write_VIEWS](#)

`getBiocSubViews`*Build a list of BiocView objects from a package repository*

Description

This function returns a list of `BiocView-class` objects corresponding to the subgraph of the views DAG induced by `topTerm`. In short, this does the same thing as `getBiocViews`, but limits the vocabulary to `topTerm` and all of its descendants.

Usage

```
getBiocSubViews(reposUrl, vocab, topTerm, local = FALSE, htmlDir = "")
```

Arguments

reposUrl	URL for a CRAN-style repository that hosts a VIEWS file at the top-level.
vocab	A <code>graph-class</code> object representing the ontology of views. This graph should be a directed acyclic graph (DAG).
topTerm	A string giving the name of the subview DAG. This view and all of its descendants will be included in the result.
local	logical indicating whether to assume a local package repository. The default is FALSE in which case absolute links to package detail pages are created.
htmlDir	if the <code>local</code> argument is TRUE, this will be used as the relative path for package HTML files.

Details

The root of the vocabulary DAG is implicitly included in the view creation process order to build views with a link back to the top. It is removed from the return list.

This function is tailored to generation of Bioconductor Task Views. With the current vocabulary, it probably only makes sense to call it with `topView` set to one of "Software", "AnnotationData", or "ExperimentData". This is a hack to allow the `biocViews` code to manage HTML views across more than one repository.

Value

A list of `BiocView-class` objects. The names of the list give the name of the corresponding view.

Author(s)

Seth Falcon

See Also

`write_VIEWS`, `writeBiocViews`

Examples

```
data(biocViewsVocab)
reposPath <- system.file("doc", package="biocViews")
reposUrl <- paste("file://", reposPath, sep="")
biocViews <- getBiocSubViews(reposUrl, biocViewsVocab, "Software")
print(biocViews[1:2])
```

getBiocViews

Build a list of BiocView objects from a package repository

Description

Given the URL to a CRAN-style package repository containing a VIEWS file at the top-level and a `graph-class` object representing a DAG of views, this function returns a list of `BiocView-class` objects.

Usage

```
getBiocViews(reposUrl, vocab, defaultView, local = FALSE, htmlDir = "")
```

Arguments

reposUrl	URL for a CRAN-style repository that hosts a VIEWS file at the top-level.
vocab	A graph-class object representing the ontology of views. This graph should be a directed acyclic graph (DAG).
defaultView	A string giving the term to use for packages that do not list a term of their own via the <code>biocViews</code> field in the 'DESCRIPTION' file.
local	logical indicating whether to assume a local package repository. The default is FALSE in which case absolute links to package detail pages are created.
htmlDir	if the <code>local</code> argument is TRUE, this will be used as the relative path for package HTML files.

Value

A list of `BiocView-class` objects. The names of the list give the name of the corresponding view.

Author(s)

Seth Falcon

See Also

[write_VIEWS](#), [writeBiocViews](#)

Examples

```
data(biocViewsVocab)
reposPath <- system.file("doc", package="biocViews")
reposUrl <- paste("file://", reposPath, sep="")
biocViews <- getBiocViews(reposUrl, biocViewsVocab, "NoViewProvided")
print(biocViews[1:2])
```

getPacksAndViews *Parse VIEWS file for views and packages*

Description

Given a repository URL, download and parse the VIEWS file.

Usage

```
getPacksAndViews(reposURL, vocab, defaultView, local=FALSE)
```

Arguments

reposURL	character vector giving the URL of a CRAN-style repository containing a VIEWS file at the top-level.
vocab	A <code>graph-class</code> object representing the ontology of views. This graph should be a directed acyclic graph (DAG).
defaultView	A string giving the term to use for packages that do not list a term of their own via the <code>biocViews</code> field in the 'DESCRIPTION' file.
local	logical indicating whether certain links should be absolute (using <code>reposURL</code>) or relative.

Value

A list with named elements:

`views`: Vector of view memberships. Names are package names.

`pkgList`: A list of `PackageDetail-class` objects.

Author(s)

Seth Falcon

getSubTerms *Retrieve a term and its children from a vocab DAG*

Description

Given a Directed Acyclic Graph (DAG) represented as a `graphNEL` instance, return a character vector consisting of the specified `term` and all of its descendants. That is, give the list of terms for which a path exists starting at `term`.

Usage

```
getSubTerms(dag, term)
```

Arguments

dag	A <code>graphNEL</code> representing a DAG
term	A string giving a term in the vocabulary (a node in dag)

Value

A character vector of term names.

Author(s)

S. Falcon

Examples

```
data(biocViewsVocab)
getSubTerms(biocViewsVocab, "Software")
```

htmlDoc	<i>Create a complete HTML document representation of an object</i>
---------	--

Description

This generic function should return an `XMLNode` instance representing the specified object in HTML as a complete HTML document.

Usage

```
htmlDoc(object, ...)
```

Arguments

object	An object
...	Not currently used.

Value

An instance of `XMLNode` from the XML package.

Author(s)

Seth Falcon

See Also

[htmlValue](#), [htmlFilename](#)

htmlFilename	<i>Return a filename for an object's HTML representation</i>
--------------	--

Description

This function returns a string containing an appropriate filename for storing the object's HTML representation.

Usage

```
htmlFilename(object, ...)
```

Arguments

object	An object.
...	Not currently used

Value

A character vector of length one containing the filename.

Author(s)

Seth Falcon

See Also[htmlValue](#), [htmlDoc](#)

`htmlValue`*HTML Representation of an Object*

Description

This generic function should return an `XMLNode` instance representing the specified object in HTML

Usage

```
htmlValue(object)
```

Arguments

`object` An object

Value

An instance of `XMLNode` from the XML package.

Author(s)

Seth Falcon

See Also[htmlDoc](#), [htmlFilename](#)

`writeBiocViews`*Write a list of BiocView objects to HTML*

Description

This function serializes a list of `BiocView-class` objects to a series of HTML files.

Usage

```
writeBiocViews(bvList, dir, backgroundColor="transparent")
```

Arguments

`bvList` A list of BiocView-class objects
`dir` A character vector giving the directory where the HTML files will be written.
`backgroundColor` A character vector giving the background color for the body in the CSS file.

Author(s)

Seth Falcon

See Also

[getBiocViews](#), [genReposControlFiles](#), [write_VIEWS](#)

`writeHtmlDoc` *Write an XML DOM containing HTML to a file*

Description

Given a DOM tree from the XML package and a filename, write the DOM to disk creating an HTML file.

Usage

```
writeHtmlDoc(html, file)
```

Arguments

`html` A DOM object from the XML package
`file` A string giving the filename

Author(s)

S. Falcon

`writePackageDetailHtml` *Write HTML files for packages in a CRAN-style repository*

Description

This function creates package "homepages" that describe the package and provide links to download package artifacts in the repository.

Usage

```
writePackageDetailHtml(pkgList, htmlDir = "html", backgroundColor="transparent")
```

Arguments

pkgList	A list of PackageDescription objects.
htmlDir	The files will be written to this directory.
backgroundColor	A character vector giving the background color for the body in the CSS file.

Author(s)

Seth Falcon

See Also

[writeRepositoryHtml](#)

writeRepositoryHtml

Write package descriptions and a repository index as HTML

Description

This function generates an HTML file for each package in a repository and generates an `index.html` file that provides an alphabetized listing of the packages.

Usage

```
writeRepositoryHtml(reposRoot, title, reposUrl = "..", viewUrl = "../..",
  reposFullUrl=reposUrl, downloadStatsUrl="",
  devHistoryUrl="", link.rel = TRUE,
  backgroundColor="transparent")
```

Arguments

reposRoot	string specifying the path to the root of the CRAN-style package repository.
title	string giving the title for the repository
reposUrl	string giving the prefix for URL in links generated on the package description pages. The default is " . . ." which works well if the package description HTML files are written to an <code>html</code> subdirectory under the root of the repository.
viewUrl	string giving the prefix for the URL in links to the view pages. The <code>biocViews</code> terms will be linked to views summary pages with this prefix.
reposFullUrl	string giving the full prefix for URL in links generated on the package description pages. The default is <code>reposUrl</code> .
downloadStatsUrl	string giving the prefix for the URL in links to the download history statistics pages.
devHistoryUrl	string giving the prefix for the URL in links to the development changelog.
link.rel	logical indicating whether the index page should generate relative URL links. The default is <code>TRUE</code> . If you are generating HTML for a remote repository, you will want to set this to <code>FALSE</code> .
backgroundColor	A character vector giving the background color for the body in the CSS file.

Author(s)

Seth Falcon

`writeTopLevelView` *Write the view for the root of a vocabulary to disk*

Description

Given a directory and a vocabulary represented as a `graphNEL` containing a DAG of terms, write the top-level term to disk as HTML.

This assumes your vocabulary has a single term with no parents.

Usage

```
writeTopLevelView(dir, vocab)
```

Arguments

<code>dir</code>	A string giving a directory in which to write the HTML file
<code>vocab</code>	A <code>graphNEL</code> instance giving the DAG of terms. It should have a root node. That is, there should be exactly one node with no incoming edges.

Author(s)

S. Falcon

`write_REPOSITORY` *Write a REPOSITORY control file for a CRAN-style package repository*

Description

This function writes a `REPOSITORY` file at the top-level of a CRAN-style repository. This file is DCF formatted and describes the location of packages available in the repository. Here is an example for a repository containing only source and Windows binary packages:

```
source: src/contrib
win.binary: bin/windows/contrib/2.6
win64.binary: bin/windows64/contrib/2.6
mac.binary.leopard: bin/mac/leopard/contrib/2.6
provides: source, win.binary, win64.binary, mac.binary.leopard
```

Usage

```
write_REPOSITORY(reposRootPath, contribPaths)
```

Arguments

`reposRootPath` character vector containing the path to the CRAN-style repository root directory.

`contribPaths` A named character vector. Valid names are `source`, `win.binary`, `win64.binary`, `mac.binary`, and `mac.binary.leopard`. Values indicate the paths to the package archives relative to the `reposRoot`.

Author(s)

Seth Falcon

See Also

[write_PACKAGES](#), [extractVignettes](#), [genReposControlFiles](#), [write_VIEWS](#)

<code>write_SYMBOLS</code>	<i>Write a SYMBOLS file</i>
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Description

Writes a DCF formatted file, `SYMBOLS`, containing the symbols exported by each package in a directory containing R package source directories.

Usage

```
write_SYMBOLS(dir, verbose = FALSE, source.dirs=FALSE)
```

Arguments

`dir` The root of a CRAN-style package repository containing source packages. When `source.dirs` is `TRUE`, `dir` should be a directory containing R package source directories

`verbose` Logical. When `TRUE`, progress is printed to the standard output.

`source.dirs` Logical. When `TRUE`, interpret `dir` as a directory containing source package directories. When `FALSE`, the default, `dir` is assumed to be the root of a CRAN-style package repository and the function will operate on the source package tarballs in `dir/src/contrib`.

Value

Returns `NULL`. Called for the side-effect of creating a `SYMBOLS` file in `dir`.

Author(s)

S. Falcon

See Also

[write_PACKAGES](#) [write_VIEWS](#)

write_VIEWS	<i>Write a VIEWS control file for a CRAN-style package repository</i>
-------------	---

Description

This function writes a VIEWS file to the top-level of a CRAN-style package repository. The VIEWS file is in DCF format and describes all packages found in the repository.

The VIEWS file contains the complete DESCRIPTION file for each source package in the repository. In addition, metadata for available binary packages and vignettes is centralized here.

Usage

```
write_VIEWS(reposRootPath, fields = NULL,
            type = c("source", "win.binary", "win64.binary",
                    "mac.binary", "mac.binary.leopard"),
            verbose = FALSE, vignette.dir = "vignettes")
```

Arguments

reposRootPath	character vector containing the path to the CRAN-style repository root directory.
fields	Any additional fields to include. You shouldn't need this, but if you have added fields to the DESCRIPTION files of the packages in the repository, you may want it.
type	One of <code>source</code> , <code>win.binary</code> , <code>win64.binary</code> , <code>mac.binary</code> , or <code>mac.binary.leopard</code> indicating which set of packages should be used to build up the "shared" information. Since a repository can contain different versions of the same package (source vs binary) the shared information may not be reliable.
verbose	logical, if TRUE, print progress messages.
vignette.dir	character specifying where to look for vignettes.

Warning

This function uses a private function from the `tools` package: `tools:::.build_repository_package_db`.

Author(s)

Seth Falcon

See Also

[write_PACKAGES](#), [extractVignettes](#), [genReposControlFiles](#), [write_REPOSITORY](#)

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