Package 'biocViews'

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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

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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:

HOWTO-BCV Basic package usage

createReposHtml Further information for repository admins

Author(s)

VJ Carey <stvjc@channing.harvard.edu>, BJ Harshfield <rebjh@channing.harvard.edu>, S Falcon <sfalcon@fhcrc.org>

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

Examples

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

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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

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DIOCTICNST	ocub

Bioconductor Task Views Vocabulary Data

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)
```

extractManuals

Extract Rd man pages and build pdf reference manuals from local package repository

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

```
extractManuals(reposRoot, srcContrib, destDir)
```

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Arguments

reposRoot character vector giving the path to the root of the local CRAN-style package

repository

srcContrib character vector giving the relative path from the reposRoot to the source pack-

ages. In a standard CRAN-style repository, this will be src/contrib.

destDir character vector specifying the directory in which the extracted files will be

written. If missing, files will be written to <reposRoot>/manuals.

Author(s)

Patrick Aboyoun

extractNEWS Extract NEWS files from source package tarballs

Description

Extracts NEWS files from source tarballs of packages.

Usage

```
extractNEWS(reposRoot, srcContrib, destDir)
```

Arguments

reposRoot Top level path for CRAN-style repos

srcContrib Location of source packages

destDir where to extract

Description

Extracts files from source tarballs of packages.

Usage

```
extractTopLevelFiles(reposRoot, srcContrib, destDir, fileName)
```

Arguments

reposRoot Top level path for CRAN-style repos

srcContrib Location of source packages

destDir where to extract

fileName name of file to extract

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

Description

These functions extract pdf or HTML files from the inst/doc subdirectory of R source packages archives (.tar.gz) found in a local package repository.

All pdf files found in inst/doc will be extracted. With extractHTMLDocuments, all HTML files except index.html will be extracted. Only source package archives will be processed. The extracted pdf or HTML files will be extracted under destDir and will be found in PKGNAME/inst/doc/.

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

Usage

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

Arguments

reposRoot	character vector giving the path to the root of the local CRAN-style package repository
srcContrib	character vector giving the relative path from the reposRoot to the source packages. In a standard CRAN-style repository, this will be src/contrib.

character vector specifying the directory in which the extracted files will be

written. If missing, files will be written to <reposRoot>/vignettes.

Author(s)

Seth Falcon

destDir

```
{\tt genReposControlFiles} \quad \textit{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)
```

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Arguments

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

A named character vector. Valid names are source, win.binary, mac.binary, contribPaths

mac.binary.mavericks, and mac.binary.el-capitan. 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 decendents.

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. A graph-class object representing the ontology of views. This graph should be vocab a directed acyclic graph (DAG). topTerm A string giving the name of the subview DAG. This view and all of its decendents 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 local 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.

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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])</pre>
```

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 biocViews 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 local 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

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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])</pre>
```

getCurrentbiocViews

Get a list of biocViews for each branch

Description

This function looks returns a list containing all the biocViews that are present on the Bioconductor website.

Usage

```
getCurrentbiocViews()
```

Details

It parses the dot file present inside the biocViews package.

Value

It returns a named list with 3 components.

Software biocViews from the software branch

ExperimentData biocViews from the ExperimentData branch
AnnotationData biocViews from the AnnotationData branch

Author(s)

Sonali Arora

Examples

```
ans <- getCurrentbiocViews()
## only the first 6 from each branch are shown here.
lapply(ans, head)</pre>
```

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getPackageNEWS Retrieve and print package NEWS
--

Description

These functions visit two repository PACKAGE files, identifying packages that are present in the 'current' repository and have NEWS since the base version of the same package in the 'previous' repository. All NEWS is reported for packages only in the current repository.

Usage

Arguments

prevRepos	character(1) repository from which NEWS starts.
currRepos	character(1) repository of current packages.
srcDir	character(1) directory containing the source all current pacakges
dbs	A list of news_db elements, as returned by getPackageNEWS.
destfile	character(1) file path to the location where NEWS will be printed.
overwrite	logical(1) indicating whether destfile can be over-written, if it exists.
width	numeric(1) number of characters news items are to be wrapped to, excluding indent.
output	character(1) output to text or markdown format.
	additional arguments, unused.

Value

A list of news_db files, as returned by utils::news, for each package for which relevant NEWS is available.

Author(s)

Martin Morgan mtmorgan@fhcrc.org

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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 graph-class object representing the ontologyof 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 biocViews field in the 'DESCRIPTION' file.

local logical indicating whether certain links should be absolute (using reposURL) 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 graphNEL representing a DAG

term A string giving a term in the vocabulary (a node in dag)

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Value

A character vector of term names.

Author(s)

S. Falcon

Examples

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

htmlDoc

Create a complete HTML document representation of an object

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

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htmlFilename

Return a filename for an object's HTML representation

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

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

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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

PackageDetail-class

Class "PackageDetail"

Description

Representation of R package metadata. Most slots correspond to fields in a package's DESCRIP-TION 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

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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

mac.binary.el-capitan.ver: Object of class "character" version string for the OS X El Capitan 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 containg 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. recommendBiocViews 17

Details

 $pdAuthor Maintainer Info-class\ pdVignette Info-class\ pdDownload Info-class\ pdDetails Info-class\ pdDescription Info-class\ pdVigsAndDownloads-class\ pdVigsAndDownloads-c$

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 convert a PackageDetail instance to one of the dummy classes like this: descInfo <- as(pd0bj,

Author(s)

Seth Falcon

Examples

```
pd <- new("PackageDetail",</pre>
         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"
         \verb|biocViews="Infrastructure"|
       vignettes="vignettes/MyFancyPackage/inst/doc/MFP1.pdf,\nvignettes/MyFancyPackage/inst/doc/MFP2.pdf
       vignetteTitles="MFP1 Document,\nMFP2 Document",
         source.ver="src/contrib/MyFancyPackage_1.2.3.tar.gz",
         win.binary.ver="bin/windows/contrib/3.4/MyFancyPackage_1.2.2.zip",
       `mac.binary.el-capitan.ver`="bin/macosx/el-capitan/contrib/3.4/MyFancyPackage_1.2.3.tgz",
         dependsOnMe=c("PackageThatExposesMe"),
         importsMe=c("AnEvenFancierPackage", "AMuchFancierPackage"),
         suggestsMe="PackageThatUsesMeInVignette",
         reposRoot="http://foo.bar.org")
html <- htmlValue(pd)</pre>
pd
```

recommendBiocViews

Recommend biocViews for an existing Package.

Description

Packages being added to the Bioconductor Project require biocViews in their DESCRIPTION file.(Note that the field name "biocViews" is case-sensitive and must begin with a lower-case 'b'.)biocViews are "keywords" which are used to describe a given package. They are broadly divided into three categories, representing the type of packages present in the Bioconductor Project - Software, Annotation Data and Experiment Data.

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Usage

recommendBiocViews(pkgdir, branch)

Arguments

pkgdir The path of the package Directory.

branch The branch which your package will belong to. It can be either 'Software',

'AnnotationData' or 'ExperimentData'.

Details

This function parses the package directory provided by the user to recommend biocViews to the user. The output is a suggested list - the user of this function is expected to go through this list and find which biocViews best describe his or her package. It uses the following strategies.

- It parses the "Description", "Title", "Package" of the DESCRIPTION page to find biocViews.
- It looks up the biocViews of the packages in the "Depends" field of the given package to recommend biocViews
- It parses the text from the man pages and the vignettes to suggest biocViews.

Please note the following:

- Do not make up your own biocViews.
- Double check the spelling and case of the biocViews added.
- Please add biocViews only from the appropriate branch. eg: Software packages should have only Software biocViews.

Value

A list is returned with 3 characters - current, recommended and remove.

- "current" contains the biocViews from the package's DESCRIPTION file.
- "recommended" are the recommended biocViews This is a suggested list which the user can add in addition to "current" biocViews the user is expected to go through this list and find which biocViews best describe their package.
- "remove" are those biocViews which are inconsistent with the Bioconductor biocViews. (Hint check for spelling, cases and plural)

Author(s)

Sonali Arora.

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racamman	dPackages
recommen	nPackages

Recommend Packages using existing biocViews.

Description

biocViews are "keywords" which are used to describe a given package. They are broadly divided into three categories, representing the type of packages present in the Bioconductor Project - Software, Annotation Data and Experiment Data. One can find packages which are tagged with biocViews using this function.

Usage

recommendPackages(biocViews, use.release=TRUE, intersect.views=TRUE)

Arguments

biocViews A character vector containing a list of biocViews. Currently only biocViews

from the software branch are supported.

use.release A logical character indicating if you want packages recommended from the re-

lease branch of Biocondutor.

intersect.views

A logical character indicating if you want packages which are tagged with all the input biocViews or packages tagged with any one or more of the biocViews.

Value

A character vector containing a list of packages. If multiple biocViews are given as input, the result returns packages tagged with all or atleast one of the input biocViews.

Author(s)

Sonali Arora.

Examples

```
recommendPackages(c("clustering", "classification"))
```

```
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", ...).

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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

validate_bioc_views Validate a package's biocViews.

Description

Ensures that a package has biocViews and that they are valid. Function is designed to be called from the unit tests of another package.

Usage

```
validate_bioc_views(pkg)
```

Arguments

pkg character(1) Name of package to validate.

Value

```
invisible(NULL) if tests pass.
```

Author(s)

Dan Tenenbaum dtenenba@fhcrc.org

Examples

```
validate_bioc_views("biocViews")
```

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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

 ${\tt getBiocViews, genReposControlFiles, write_VIEWS}$

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

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```
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

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 html subdirectory under the root of the repository.

viewUrl string giving the prefix for the URL in links to the view pages. The biocViews

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 descrip-

tion pages. The default is reposUrl.

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 TRUE. If you are generating HTML for a remote repository, you

will want to set this to FALSE.

backgroundColor

A character vector giving the background color for the body in the CSS file.

Author(s)

Seth Falcon

writeRFilesFromVignettes

Write R files from vignettes

Description

Ensures that .R files from vignette code chunks are written out.

Usage

Arguments

reposRoot Root directory of a CRAN-style repository

reposUrl URL of repository viewUrl url of VIEWS file

reposFullUrl Full URL of VIEWS file

 ${\tt downloadStatsUrl}$

URL to download stats page

devHistoryUrl Dev history URL

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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

dir A string giving a directory in which to write the HTML file

vocab A graphNEL 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 reposi-

tory

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 source packages, and Windows and Mac binary packages:

```
source: src/contrib
```

win.binary: bin/windows/contrib/3.4

mac.binary.el-capitan: bin/mac/el-capitan/contrib/3.4
provides: source, win.binary, mac.binary.el-capitan

Usage

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

Arguments

reposRootPath cha

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

contribPaths

A named character vector. Valid names are source, win.binary, mac.binary, mac.binary.mavericks, and mac.binary.el-capitan. Values indicate the

paths to the package archives relative to the reposRoot.

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Author(s)

Seth Falcon

See Also

write_PACKAGES, extractVignettes, genReposControlFiles, write_VIEWS

write_SYMBOLS

Write a SYMBOLS file

Description

Writes a DCF formatted file, SYMBOLS, containing the symbols exported by each package in a directory containg 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 CRANstyle 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

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write_VIEWS

Write a VIEWS control file for a CRAN-style package repository

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

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 source, win.binary, mac.binary, mac.binary.mavericks, or mac.binary.el-capitan

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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