

Package ‘biocViews’

October 24, 2025

Title Categorized views of R package repositories

Description Infrastructure to support 'views' used to classify Bioconductor packages. 'biocViews' are directed acyclic graphs of terms from a controlled vocabulary. There are three major classifications, corresponding to 'software', 'annotation', and 'experiment data' packages.

biocViews Infrastructure

URL <http://bioconductor.org/packages/biocViews>

BugReports <https://github.com/Bioconductor/biocViews/issues>

Version 1.77.4

License Artistic-2.0

Depends R (>= 3.6.0)

Imports Biobase, graph (>= 1.9.26), methods, RBGL (>= 1.13.5), tools, utils, XML, RCurl, RUnit, BiocManager

Suggests BiocGenerics, BiocPkgTools, knitr, commonmark, BiocStyle

Collate AllClasses.R AllGenerics.R as-methods.R htmlDoc-methods.R htmlFilename-methods.R htmlValue-methods.R show-methods.R getPackNames.R packageDetails.R pump.R repository.R showvoc.R getPackageNEWS.R validation_tests.R recommendBiocViews.R dump_concept.R build_dbs.R

VignetteBuilder knitr

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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:

| | |
|------------------------|---|
| BiocView-class | Class "BiocView" |
| Htmlized-class | Class "Htmlized" |
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| RepositoryDetail-class | Class "RepositoryDetail" |
| biocViewsVocab | Bioconductor Task Views Vocabulary Data |
| extractVignettes | Extract pdf vignettes from local package repository |
| genReposControlFiles | Generate CRAN-style repository control files |
| getBiocSubViews | Build a list of BiocView objects from a package repository |
| getBiocViews | Build a list of BiocView objects from a package repository |
| getPacksAndViews | Parse VIEWS file for views and packages |
| getSubTerms | Retrieve a term and its children from a vocab DAG |
| htmlDoc | Create a complete HTML document representation of an object |
| htmlFilename | Return a filename for an object's HTML representation |
| htmlValue | HTML Representation of an Object |
| writeBiocViews | Write a list of BiocView objects to HTML |
| writeHtmlDoc | Write an XML DOM containing HTML to a file |
| writePackageDetailHtml | |

| | |
|----------------------------------|---|
| | 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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Examples

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

| | |
|----------------|-------------------------|
| BiocView-class | <i>Class "BiocView"</i> |
|----------------|-------------------------|

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

biocViewsVocab

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)
```

build-dbs

Helper functions to generate HTML pages for reference manuals

Description

Helper functions to generate HTML pages for reference manuals

Usage

```
build_db_from_source(package_dir, reposRoot)

build_meta_aliases_db(web_dir, aliases_db_file, force = FALSE)

build_meta_rdxrefs_db(web_dir, rdxrefs_db_file, force = FALSE)
```

Arguments

| | |
|------------------------------|--|
| <code>package_dir</code> | ‘character(1)’ The local path to a package for which to build the aliases and cross-ref databases (‘rds’ files). |
| <code>reposRoot</code> | ‘character(1)’ The path to the base hosting directory for the package repository. This is typically a location on the BBS server. |
| <code>web_dir</code> | ‘character(1)’ The ‘web/packages’ local directory that is also hosted on the web-site e.g., for CRAN https://cran.r-project.org/web/packages/ |
| <code>aliases_db_file</code> | ‘character(1)’ The file path to ‘aliases.rds’ file generated by the ‘build_db_from_source’ function. |
| <code>force</code> | ‘logical(1)’ If ‘FALSE’, the function will only update the database entries for which the aliases/rdxrefs file is more recent than the database file. If ‘TRUE’, the function will read all aliases/rdxrefs files. |
| <code>rdxrefs_db_file</code> | ‘character(1)’ The file path to ‘rdxrefs.rds’ file generated by the ‘build_db_from_source’ function. |

Details

These functions are used to generate the ‘aliases.rds’ and ‘rdxrefs.rds’ files for each package. These files are used to generate a metadata database ‘Rds’ file via the ‘build_meta_aliases_db’ and ‘build_meta_rdxrefs_db’ functions for all packages. The ‘aliases.rds’ file is a list of aliases within each ‘.Rd’ page in the package. The ‘rdxrefs.rds’ file is a matrix of cross-references between an external topic and the originating ‘.Rd’ page. The individual package databases are then combined into a single database file for the entire repository. Each package’s database is stored in the ‘web/packages’ directory in ‘reposRoot’. The collective metadata database files are stored in the ‘src/contrib/Meta’ directory in ‘reposRoot’.

The alias and cross-reference files are generated from the package source directory but may also be generated from a built package tarball (functionality not included). The code is meant to run on the BBS, typically after a package has been built or updated.

Examples

```
if (interactive()) {
  library(BiocPkgTools)
  bioc_sub <- pkgBiocDeps(
    "SummarizedExperiment", pkgType = "software",
    recursive = TRUE, only.bioc = TRUE
  )
  bioc_sub <- unlist(bioc_sub, use.names = FALSE)

  ## generate from Bioc package source dirs
  packages <- file.path(normalizePath("~/bioc"), bioc_sub)
  reposRoot <- "~/minibioc/packages/3.20/bioc"

  for (package in packages) {
    build_db_from_source(package, reposRoot)
  }
}
if (interactive()) {
  reposRoot <- "~/minibioc/packages/3.20/bioc/"
  web_dir <- file.path(reposRoot, "web", "packages")

  meta_folder <- file.path(contrib.url(reposRoot), "Meta")
  if (!dir.exists(meta_folder)) dir.create(meta_folder, recursive = TRUE)
  aliases_db_file <- file.path(meta_folder, "aliases.rds")

  meta_aliases_db <- build_meta_aliases_db(web_dir, aliases_db_file)

  saveRDS(meta_aliases_db, aliases_db_file, version = 2)
}
if (interactive()) {
  reposRoot <- "~/minibioc/packages/3.20/bioc/"
  web_dir <- file.path(reposRoot, "web", "packages")

  meta_folder <- file.path(contrib.url(reposRoot), "Meta")
  if (!dir.exists(meta_folder)) dir.create(meta_folder, recursive = TRUE)
  rdxrefs_db_file <- file.path(meta_folder, "rdxrefs.rds")
}
```

```

meta_rdxrefs_db <- build_meta_rdxrefs_db(web_dir, rdxrefs_db_file)

saveRDS(meta_rdxrefs_db, rdxrefs_db_file, version = 2)
}

```

| | |
|--------------|--|
| dump_concept | <i>produce character stream for use with Protege entities/class hierarchy ingestion based on biocViews subgraphs</i> |
|--------------|--|

Description

produce character stream for use with Protege entities/class hierarchy ingestion based on biocViews subgraphs

Usage

```
dump_concept(x, edob = NULL)
```

Arguments

| | |
|------|---|
| x | character(1) name of a node in the biocViewsVocab graph |
| edob | a list as produced by graph::edges |

Value

a character atom with x abutting left and edge targets tab-indented

Examples

```
cat(substring(dump_concept("ResearchField"), 1, 152), "\n")
```

| | |
|----------------|---|
| extractManuals | <i>Extract Rd man pages and build pdf reference manuals from local package repository</i> |
|----------------|---|

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)
```

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. |
| 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 |

extractTopLevelFiles *Extract files from the top level of source package tarballs*

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 |

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. |
| destDir | 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

`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, manifestFile = NA,  
  meatPath = NA)
```

Arguments

| | |
|---------------------------|---|
| <code>reposRoot</code> | character vector containing the path to the CRAN-style repository root directory. |
| <code>contribPaths</code> | A named character vector. Valid names are <code>source</code> , <code>win.binary</code> , <code>mac.binary</code> , <code>mac.binary.mavericks</code> , and <code>mac.binary.el-capitan</code> . Values indicate the paths to the package archives relative to the <code>reposRoot</code> . |
| <code>manifestFile</code> | character(1). File path location to Bioconductor formatted manifest file that lists all current packages. This file will be used in the <code>write_VIEWS</code> function to cross check successfully built packages with all expected packages. Packages that have not built will be given dummy entry for complete listing in <code>bioc_VIEWS</code> . If NA cross check is skipped and packages not built on any system will be missing from <code>biocVIEWS</code> |
| <code>meatPath</code> | character(1). File path location to the directory containing cloned repositories of Bioconductor packages. If <code>manifestFile</code> is used for cross checking and the <code>meatPath</code> is provided, entries from the DESCRIPTION file are manually entered into <code>biocVIEWS</code> information. If NA dummy values for minimal fields for landing page generation are included with ERROR. This attempts to fill in as much information as possible for packages that have failed to build. |

Author(s)

Seth Falcon

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

| | |
|-----------------|---|
| getBiocSubViews | <i>Build a list of BiocView objects from a package repository</i> |
|-----------------|---|

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

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

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])
```

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)
```

| | |
|----------------|--|
| getPackageNEWS | <i>Retrieve and print package NEWS</i> |
|----------------|--|

Description

These functions visit two Bioconductor releases, identifying packages that are present in the ‘current’ repository and have NEWS since the base version of the same package in the ‘previous’ release. All NEWS is reported for packages only in the current repository.

Usage

```
getPackageNEWS(prevRepos="3.6",
               currRepos="3.7",
               repo=c("bioc", "data/experiment", "workflows"),
               srcdir = NULL)
printNEWS(dbs, destfile, overwrite = FALSE, width = 68,
          output=c("md", "text"), relativeLink=FALSE, ...)
```

Arguments

| | |
|--------------|---|
| prevRepos | character(1) Bioconductor version from which NEWS starts. |
| currRepos | character(1) Bioconductor version for current packages. |
| repo | character(1) Which repository to get NEWS for. bioc is software packages, data/experiment is for data experiment packages and workflows for workflow packages |
| srcdir | Path to local checkout of package repositories, if NULL will try and use files on main builders |
| 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. |
| relativeLink | Should links to packages be relative links on bioconductor.org website or include full url 'https//bioconductor.org'. default: FALSE is full url. |
| ... | 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 and Lori Shepherd

| | |
|------------------|--|
| getPackageTitles | <i>Retrieve list of package titles and print package Description</i> |
|------------------|--|

Description

These functions visit two Bioconductor releases branches, identifying different packages that are present in the 'current' repository from the 'previous' release. Utilizes the devel branch of bioconductor to retrieve description.

Usage

```
getPackageTitles(prevBranch="RELEASE_3_6",
                 currBranch="devel",
                 manifest=c("software.txt", "data-experiment.txt",
                           "workflows.txt", "data-annotation.txt", "books.txt"),
                 status = c("new", "removed"))
getPackageDescriptions(pkgs, outfile, output=c("md", "text"), relativeLink=FALSE)
```

Arguments

| | |
|--------------|--|
| prevBranch | character(1) Bioconductor branch to compare to |
| currBranch | character(1) Bioconductor branch for current packages. |
| manifest | character(1) Which repository of packages to compare. software.txt is software packages, data-experiment.txt is for data experiment packages and workflows.txt for workflow packages |
| status | get new or removed package list comparing currBranch to prevBranch |
| pkgs | character() A list of packages to retrieve DESCRIPTION |
| outfile | character(1) file path to the location where DESCRIPTIONS will be printed. |
| output | character(1) output to text or markdown format. |
| relativeLink | Should links to packages be relative links on bioconductor.org website or include full url 'https/bioconductor.org'. default: FALSE is full url. |

Value

A list of package titles.

Author(s)

Martin Morgan mtmorgan@fhcrc.org and Lori Shepherd

Examples

```
## Not run:
# At release time get a list of new or removed or deprecated packages

# get new packages in release 3.7 that are not in 3.6
newSoft = getPackageTitles()
# get removed packages from 3.6
rmSoft = getPackageTitles(currBranch="RELEASE_3_7", status="removed")
# get deprecated package for 3.7
deprecatedSoft = setdiff(getPackageTitles(status="removed"), rmSoft)

# repeated above for data-experiment packages
newData = getPackageTitles(manifest="data-experiment.txt")
rmData = getPackageTitles(currBranch="RELEASE_3_7", manifest="data-experiment.txt", status="removed")
deprecatedData = setdiff(getPackageTitles(manifest="data-experiment.txt", status="removed"), rmData)

## End(Not run)
```

| | |
|------------------|--|
| getPacksAndViews | <i>Parse VIEWS file for views and packages</i> |
|------------------|--|

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 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

| | |
|-------------------|--|
| <code>dag</code> | A graphNEL representing a DAG |
| <code>term</code> | 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")
```

| | |
|------------------|--|
| guessPackageType | <i>Guess Package Type (Software, ExperimentData, AnnotationData) using existing biocViews.</i> |
|------------------|--|

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. biocViews are supposed to come from only one of the three fields, but this function will check the list of biocViews and guess the package type based on how many biocViews came from each field.

Usage

```
guessPackageType(biocViews)
```

Arguments

biocViews A character vector containing a list of biocViews.

Value

A character(1) of package type: either "Software", "ExperimentData", or "AnnotationData".

Author(s)

Lori Shepherd

Examples

```
guessPackageType(c("clustering", "classification"))
guessPackageType(c("Organism", "Homo Sapien"))
```

| | |
|---------|--|
| 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](#)

| | |
|----------------|-------------------------|
| Htmlized-class | <i>Class "Htmlized"</i> |
|----------------|-------------------------|

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

| | |
|-----------|---|
| htmlValue | <i>HTML Representation of an Object</i> |
|-----------|---|

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 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

mac.binary: Object of class "character" version string for the macOS High Sierra binary package

mac.binary.mavericks.ver: Object of class "character" version string for the OS X Mavericks 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 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/MyFancyPackage/inst/doc/MFP2.pdf",
  vignetteScripts="vignettes/MyFancyPackage/inst/doc/MFP1.R\nvignettes/MyFancyPackage/inst/doc/MFP2.R",
  vignetteTitles="MFP1 Document,\nMFP2 Document",
  source.ver="src/contrib/MyFancyPackage_1.2.3.tar.gz",
  win.binary.ver="bin/windows/contrib/4.0/MyFancyPackage_1.2.2.zip",
  mac.binary.ver="bin/macosx/contrib/4.0/MyFancyPackage_1.2.3.tgz",
  dependsOnMe=c("PackageThatExposesMe"),
  importsMe=c("AnEvenFancierPackage", "AMuchFancierPackage"),
  suggestsMe="PackageThatUsesMeInVignette",
  reposRoot="http://foo.bar.org")

html <- htmlValue(pd)
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.

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.

recommendPackages *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 release branch of Bioconductor.
- `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", ...)`.

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")
```

| | |
|----------------|---|
| writeBiocViews | <i>Write a list of BiocView objects to HTML</i> |
|----------------|---|

Description

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

Usage

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

Arguments

| | |
|------------------------------|---|
| <code>bvList</code> | A list of <code>BiocView-class</code> objects |
| <code>dir</code> | A character vector giving the directory where the HTML files will be written. |
| <code>backgroundColor</code> | 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 | <i>Write an XML DOM containing HTML to a file</i> |
|--------------|---|

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

| | |
|-------------------|-----------------------------------|
| <code>html</code> | A DOM object from the XML package |
| <code>file</code> | 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

| | |
|------------------------------|--|
| <code>pkgList</code> | A list of PackageDescription objects. |
| <code>htmlDir</code> | The files will be written to this directory. |
| <code>backgroundColor</code> | 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 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 description 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

```
writeRFilesFromVignettes(reposRoot, reposUrl="..",
                          viewUrl="../..", reposFullUrl=reposUrl,
                          downloadStatsUrl="", devHistoryUrl="")
```

Arguments

| | |
|--------------|---|
| reposRoot | Root directory of a CRAN-style repository |
| reposUrl | URL of repository |
| viewUrl | url of VIEWS file |
| reposFullUrl | Full URL of VIEWS file |

downloadStatsUrl URL to download stats page
 devHistoryUrl Dev history URL

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 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 source packages, and Windows and Mac binary packages:

```
source: src/contrib
win.binary: bin/windows/contrib/4.0
mac.binary: bin/macosx/contrib/4.0
provides: source, win.binary, mac.binary
```

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, mac.binary, 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](#), [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 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`*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

```
write_VIEWS(reposRootPath, fields = NULL,
            verbose = FALSE, vignette.dir = "vignettes",
            manifestFile = NA, meatPath = NA)
```

Arguments

| | |
|----------------------------|--|
| <code>reposRootPath</code> | character vector containing the path to the CRAN-style repository root directory. |
| <code>fields</code> | 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. |
| <code>verbose</code> | logical, if TRUE, print progress messages. |
| <code>vignette.dir</code> | character specifying where to look for vignettes. |
| <code>manifestFile</code> | character(1). File path location to Bioconductor formatted manifest file that lists all current packages. This file will be used in the write_VIEWS function to cross check successfully built packages with all expected packages. Packages that have not built will be given dummy entry for complete listing in bioc_VIEWS. If NA cross check is skipped and packages not built on any system will be missing from biocVIEWS |
| <code>meatPath</code> | character(1). File path location to the directory containing cloned repositories of Bioconductor packages. If manifestFile is used for cross checking and the meatPath is provided, entries from the DESCRIPTION file are manually entered into biocVIEWS information. If NA dummy values for minimal fields for landing page generation are included with ERROR. This attempts to fill in as much information as possible for packages that have failed to build. |

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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