Package: annaffy (via r-universe)

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Description

Dispatches requests for annotation data to the correct function. Alternatively returns a list of all the columns it supports.

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Usage

```
aaf.handler(probeids, chip, name)
```

Arguments

probeids character vector containing probe ids

chip name of chip

name of the column of data to return

Value

An aafList containing objects of the propper class.

If no arguments are passed, it will return a character vector of the columns currently supported.

Note

```
Written at the NASA Center for Computational Astrobiology 
http://cca.arc.nasa.gov/
```

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

aafChromLoc

Constructor for aafChromLoc objects

Description

For the given probeids, constructs an aafList of aafChromLoc objects containing annotation data from the chip data package.

Usage

```
aafChromLoc(probeids, chip)
```

Arguments

probeids character vector containing probe ids chip name of the chip data package

Value

An aafList of aafChromLoc objects. NA values are returned as empty objects.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

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See Also

```
aafChromLoc-class
```

Examples

```
if (require(hgu95av2.db)) {
    data(aafExpr)
    probes <- featureNames(aafExpr)
    locations <- aafChromLoc(probes, "hgu95av2.db")
    show(locations[6:10])
}</pre>
```

aafChromLoc-class

Class aafChromLoc, a class for gene chromosome locations

Description

An abstraction for gene chromosome locations from Bioconductor data packages.

Objects from the Class

Objects are generally created by the aafChromLoc constructor. Objects can also be created manually by calls of the form new("aafChromLoc", description).

Slots

.Data: Object of class integer

Extends

Class integer, from data part.

Methods

No methods defined with class "aafChromLoc" in the signature. See generic implementations of getText, getURL, getHTML, getTD, and getCSS.

Author(s)

```
Colin A. Smith, <annaffy@colinsmith.org>
```

See Also

aafChromLoc

aafChromosome 5

aafChromosome

Constructor for aafChromosome objects

Description

For the given probeids, constructs an aafList of aafChromosome objects containing annotation data from the chip data package.

Usage

```
aafChromosome(probeids, chip)
```

Arguments

probeids character vector containing probe ids
chip name of the chip data package

Value

An aafList of aafChromosome objects. NA values are returned as empty objects.

Author(s)

```
Colin A. Smith, <annaffy@colinsmith.org>
```

See Also

aafChromosome-class

Examples

```
if (require(hgu95av2.db)) {
   data(aafExpr)
   probes <- featureNames(aafExpr)
   chromosomes <- aafChromosome(probes, "hgu95av2.db")
   show(chromosomes[6:10])
}</pre>
```

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aafChromosome-class

Class aafChromosome, a class for gene chromosome assignments

Description

An abstraction for gene gene chromosome assignments from Bioconductor data packages.

Objects from the Class

Objects are generally created by the aafChromosome constructor. Objects can also be created manually by calls of the form new("aafChromosome", description).

Slots

.Data: Object of class character

Extends

Class character, from data part.

Methods

No methods defined with class "aafChromosome" in the signature. See generic implementations of getText, getURL, getHTML, getTD, and getCSS.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafChromosome

aafCytoband

Constructor for aafCytoband objects

Description

For the given probeids, constructs an aafList of aafCytoband objects containing annotation data from the chip data package.

Usage

aafCytoband(probeids, chip)

aafCytoband-class 7

Arguments

```
probeids character vector containing probe ids
chip name of the chip data package
```

Value

An aafList of aafCytoband objects. NA values are returned as empty objects.

Author(s)

```
Colin A. Smith, <annaffy@colinsmith.org>
```

See Also

```
aafCytoband-class
```

Examples

```
if (require(hgu95av2.db)) {
    data(aafExpr)
    probes <- featureNames(aafExpr)
    bands <- aafCytoband(probes, "hgu95av2.db")
    show(bands[6:10])
}</pre>
```

aafCytoband-class

Class aafCytoband, a class for cytoband data

Description

An abstraction for cytoband data from Bioconductor data packages.

Objects from the Class

Objects are generally created by the aafCytoband constructor. Objects can also be created manually by calls of the form new("aafCytoband", band, genbank).

Slots

```
band: Object of class character containing genomic cytoband gene: Object of class character containing containing Gene ID
```

Methods

```
getText (aafCytoband): Returns text of band.
getURL (aafCytoband): Returns a URL corresponding entry in NCBI's cytoband map viewer.
See generic implementations of getHTML, getTD, and getCSS.
```

8 aafDescription

Author(s)

```
Colin A. Smith, <annaffy@colinsmith.org>
```

See Also

aafCytoband

aafDescription

Constructor for aafDescription objects

Description

For the given probeids, constructs an aafList of aafDescription objects containing annotation data from the chip data package.

Usage

```
aafDescription(probeids, chip)
```

Arguments

probeids character vector containing probe ids
chip name of the chip data package

Value

An aafList of aafDescription objects. NA values are returned as empty objects.

Author(s)

```
Colin A. Smith, <annaffy@colinsmith.org>
```

See Also

aafDescription-class

Examples

```
if (require(hgu95av2.db)) {
    data(aafExpr)
    probes <- featureNames(aafExpr)
    descriptions <- aafDescription(probes, "hgu95av2.db")
    show(descriptions[6:10])
}</pre>
```

aafDescription-class 9

aafDescription-class Class aafDescription, a class for gene descriptions

Description

An abstraction for gene description from Bioconductor data packages.

Objects from the Class

Objects are generally created by the aafDescription constructor. Objects can also be created manually by calls of the form new("aafDescription", description).

Slots

.Data: Object of class character

Extends

Class character, from data part.

Methods

No methods defined with class "aafDescription" in the signature. See generic implementations of getText, getURL, getHTML, and getTD.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafDescription

aafExpr

Sample ExpressionSet used for demonstration purposes

Description

Contains expression values for 250 probe ids with 8 samples. Two covariates are provided. Expression comes from the hgu95av2 chip.

Details

The data is real but anonymized. 250 genes expression values were chosen at random from an existing ExpressionSet. Another 250 probe ids were selected at random and were assigned to the expression values. That way, expression values do not correspond to the true probe ids.

Post-processing was done with rma() in affy 1.2.23.

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aafGenBank

Constructor for aafGenBank objects

Description

For the given probeids, constructs an aafList of aafGenBank objects containing annotation data from the chip data package.

Usage

```
aafGenBank(probeids, chip)
```

Arguments

probeids character vector containing probe ids
chip name of the chip data package

Value

An aafList of aafGenBank objects. NA values are returned as empty objects.

Author(s)

```
Colin A. Smith, <annaffy@colinsmith.org>
```

See Also

aafGenBank-class

Examples

```
if (require(hgu95av2.db)) {
   data(aafExpr)
   probes <- featureNames(aafExpr)
   gbs <- aafGenBank(probes, "hgu95av2.db")
   show(gbs[6:10])
}</pre>
```

aafGenBank-class 11

aafGenBank-class

Class aafGenBank, a class for GenBank accession numbers

Description

An abstraction for GenBank accession numbers from Bioconductor data packages.

Objects from the Class

Objects are generally created by the aafGenBank constructor. Objects can also be created manually by calls of the form new("aafGenBank", accnum).

Slots

.Data: Object of class character

Extends

Class character, from data part.

Methods

getURL (aafGenBank): Returns a URL to the corresponding entry in NCBI's GenBank database. See generic implementations of getText, getHTML, and getTD.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafGenBank

aafG0

Constructor for aafGO objects

Description

For the given probeids, constructs an aafList of aafGO objects containing annotation data from the chip data package.

Usage

```
aafGO(probeids, chip)
```

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Arguments

probeids character vector containing probe ids
chip name of the chip data package

Value

An aafList of aafGO objects. NA values are returned as empty objects.

Author(s)

```
Colin A. Smith, <annaffy@colinsmith.org>
```

See Also

```
aafGO-class
```

Examples

```
if (require(hgu95av2.db)) {
    data(aafExpr)
    probes <- featureNames(aafExpr)
    gos <- aafGO(probes, "hgu95av2.db")
    show(gos[6:10])
}</pre>
```

aafGO-class

Class aafGO, a class for gene ontology ids

Description

An abstraction for gene ontology ids from Bioconductor data packages. This class is actually extends aafList and holds aafGOItem objects which have the actual annotation data.

Objects from the Class

Objects are generally created by the aafGO constructor. Objects can also be created manually by calls of the form new("aafGO", list(goitems)).

Slots

```
.Data: Object of class list
```

Extends

Class aafList, from data part.

aafGOItem-class 13

Methods

getText (aafGO): Returns a comma delimeted list of the individual aafGOItem objects.

getURL (aafGO): Returns a single URL to an AmiGO page which displays all the gene ontology identifiers in an hierarchical listing.

getHTML (aafGO): Returns an HTML representation of each of the individual aafGOItem objects, concatenated together.

getTD (aafGO): Returns an HTML table cell representation with the class set to "aafGO".

getCSS (aafGOItem): Returns a line of CSS that indents GOItem paragraphs.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafGO, aafGOItem, aafList

aafGOItem-class

Class aafGOItem, a class for gene ontology id elements

Description

An abstraction for gene ontology id elements from Bioconductor data packages. Multiple instances of this class are held by the wrapper class aaf60.

Objects from the Class

Objects are generally created by the aafGO constructor. Objects can also be created manually by calls of the form new("aafGOItem", id, name, type).

Slots

id: Object of class character containing GO id

name: Object of class character containing textual name

type: Object of class character containing GO subtype

evid: Object of class character containing GO evidence code

Methods

getText (aafGOItem): Returns textual representation formatted "id: name".

getURL (aafGOItem): Returns a URL to the corresponding gene ontology entry on AmiGO.

getHTML (aafGOItem): Returns an HTML representation including the URL link, gene ontology name, and rollover subtype.

14 aafIntensity-class

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafGO-class, aafGO

aafIntensity-class

Class aafIntensity, a class for gene expression values

Description

A class for displaying gene expression values with a green background of differing intensities.

Objects from the Class

Objects are generally created by the aafTableInt constructor. Objects can also be created manually by calls of the form new("aafIntensity", intensity).

Slots

.Data: Object of class numeric

Extends

Class numeric, from data part.

Methods

getTD (aafIntensity): Returns an HTML table cell with background varrying from white to green depending on intensity. Scaling is controlled by two options, minIntensity (fully white) and maxIntensity (fully green), usually set by writeHTML.

See generic implementations of getText, getURL, getHTML, and getCSS.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafTableInt

aafList-class 15

aafList-class

Class aafList, a specialized subclass of list

Description

A class for lists of annotation data objects.

Objects from the Class

Objects are generally created by any of the annotation data constructors that are also part of this package. Objects can also be created manually by calls of the form new("aafList", list).

Slots

.Data: Object of class list

Extends

Class list, from data part.

Methods

```
getText (aafList): Returns a character vector containing textual representations of every item.
getURL (aafList): Returns a character vector containing single URLs (if possible) of every item.
getHTML (aafList): Returns a character vector containing HTML representations of every item.
getTD (aafList): Returns a character vector containing HTML table cell representations of every
```

item.

getCSS (aafList): Returns getCSS() of the first item in the list.

[(aafList): Returns a subset of aafList as another aafList object.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

aafLocusLink

Constructor for aafLocusLink objects

Description

For the given probeids, constructs an aafList of aafLocusLink objects containing annotation data from the chip data package.

Usage

```
aafLocusLink(probeids, chip)
```

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Arguments

probeids character vector containing probe ids
chip name of the chip data package

Value

An aafList of aafLocusLink objects. NA values are returned as empty objects.

Author(s)

```
Colin A. Smith, <annaffy@colinsmith.org>
```

See Also

aafLocusLink-class

Examples

```
if (require(hgu95av2.db)) {
    data(aafExpr)
    probes <- featureNames(aafExpr)
    lls <- aafLocusLink(probes, "hgu95av2.db")
    show(lls[6:10])
}</pre>
```

aafLocusLink-class

Class aafLocusLink, a class for LocusLink ids

Description

An abstraction for LocusLink ids from Bioconductor data packages.

Objects from the Class

Objects are generally created by the aafLocusLink constructor. Objects can also be created manually by calls of the form new("aafLocusLink", id).

Slots

```
.Data: Object of class integer
```

Extends

Class integer, from data part.

aafPathway 17

Methods

getURL (aafLocusLink): Returns a URL to the corresponding entry in NCBI's LocusLink database. On the rare chance that more than one id is defined, more than one URL will be returned.

See generic implementations of getText, getHTML, and getTD.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafLocusLink

aafPathway

Constructor for aafPathway objects

Description

For the given probeids, constructs an aafList of aafPathway objects containing annotation data from the chip data package.

Usage

```
aafPathway(probeids, chip)
```

Arguments

probeids character vector containing probe ids
chip name of the chip data package

Value

An aafList of aafPathway objects. NA values are returned as empty objects.

Author(s)

```
Colin A. Smith, <annaffy@colinsmith.org>
```

See Also

aafPathway-class

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Examples

```
if (require(hgu95av2.db)) {
    data(aafExpr)
    probes <- featureNames(aafExpr)
    pathways <- aafPathway(probes, "hgu95av2.db")
    show(pathways[6:10])
}</pre>
```

aafPathway-class

Class aafPathway, a class for KEGG pathway ids

Description

An abstraction for KEGG pathway ids from Bioconductor data packages. This class is actually extends aafList and holds aafPathwayItem objects which have the actual annotation data.

Objects from the Class

Objects are generally created by the aafPathway constructor. Objects can also be created manually by calls of the form new("aafPathway", list(pathwayitems)).

Slots

.Data: Object of class list

Extends

Class aafList, from data part.

Methods

getText (aafGO): Returns a comma delimeted list of the individual aafPathwayItem objects.

getURL (aafGO): Returns zero length character vector because this method is not valid for this class.

getHTML (aafGO): Returns an HTML representation of each of the individual aafPathwayItem objects, concatenated together.

getTD (aafGO): Returns an HTML table cell representation with the class set to "aafPathway".

getCSS (aafGO): Returns a line of CSS which intends PathwayItem paragraphs.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafPathway, aafPathwayItem, aafList

aafPathwayItem-class 19

aafPathwayItem-class Class aafPathwayItem, a class for KEGG pathway id elements

Description

An abstraction for KEGG pathway id elements from Bioconductor data packages. Multiple instances of this class are held by the wrapper class aafPathway.

Objects from the Class

Objects are generally created by the aafPathway constructor. Objects can also be created manually by calls of the form new("aafPathwayItem", id, name, enzyme).

Slots

id: Object of class character containing KEGG pathway id

name: Object of class character containing textual name (no longer supported)

enzyme: Object of class character containing the Enzyme Commision number if applicable

Methods

getText (aafPathwayItem): Returns textual representation formatted "id: name".

getURL (aafPathwayItem): Returns a URL to the corresponding entry in the Kyoto Encyclopedia of Genes and Genomes database. If there is a corresponding EC number, it will be highlighted in red.

getHTML (aafPathwayItem): Returns an HTML representation including the URL link and pathway name.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafPathway-class, aafPathway

20 aafProbe-class

aafProbe

Constructor for aafProbe objects

Description

For the given probeids, constructs an aafList of aafProbe objects.

Usage

```
aafProbe(probeids)
```

Arguments

probeids

character vector containing probe ids

Value

An aafList of aafProbe objects.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafProbe-class

Examples

```
if (require(hgu95av2.db)) {
    data(aafExpr)
    probes <- featureNames(aafExpr)
    probesets <- aafProbe(probes)
    getURL(probesets[6:10])
}</pre>
```

aafProbe-class

Class aafProbe, a class for Probe ids

Description

An abstraction for Affymetrix ProbeSet ids.

Objects from the Class

Objects are generally created by the aafProbe constructor. Objects can also be created manually by calls of the form new("aafProbe", id).

aafPubMed 21

Slots

.Data: Object of class character

Extends

Class character, from data part.

Methods

getURL (aafProbe): Returns a URL to the annotation found in the Affymetrix NetAffx Analysis Center.

See generic implementations of getText, getHTML, and getTD.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafProbe

aafPubMed

Constructor for aafPubMed objects

Description

For the given probeids, constructs a list of aafPubMed objects containing annotation data from the chip data package.

Usage

```
aafPubMed(probeids, chip)
```

Arguments

probeids character vector containing probe ids chip name of the chip data package

Value

An aafList of aafPubMed objects. NA values are returned as empty objects.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

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See Also

aafPubMed-class

Examples

```
if (require(hgu95av2.db)) {
    data(aafExpr)
    probes <- featureNames(aafExpr)
    pmids <- aafPubMed(probes, "hgu95av2.db")
    show(pmids[6:10])
}</pre>
```

aafPubMed-class

Class aafPubMed, a class for PubMed ids

Description

An abstraction for LocusLink ids from Bioconductor data packages.

Objects from the Class

Objects are generally created by the aafPubMed constructor. Objects can also be created manually by calls of the form new("aafPubMed", id).

Slots

.Data: Object of class integer

Extends

Class integer, from data part.

Methods

getURL (aafPubMed): Returns a single URL to the corresponding abstracts in NCBI's PubMed database.

getHTML (aafPubMed): Returns an HTML link along with the number of abstracts.

 $\textbf{getTD} \ \ (aaf PubMed): \ Returns \ an \ HTML \ table \ cell \ representation \ with \ the \ class \ set \ to \ "aaf PubMed".$

getCSS (aafPubMed): Returns a line of CSS which centers the PubMed link.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafPubMed

aafSearchGO 23

Find probe ids corresponding to GO ids
--

Description

Searches Gene Ontology ids for corresponding probe ids in a given chip, optionally including descendents.

Usage

```
aafSearchGO(chip, ids, descendents = TRUE, logic = "OR")
```

Arguments

chip name of the chip data package

ids numeric or character vector of GO ids descendents logical, include GO descendents? logic type of logic to use, "AND" or "OR"

Value

A character vector of probe ids matching the search criteria.

Author(s)

```
Colin A. Smith, <annaffy@colinsmith.org>
```

See Also

aafSearchText

aafSearchText	Search metadata annotation text

Description

Searches Bioconductor metadata annotation package text for specific strings or Perl compatible regular expressions.

Usage

```
aafSearchText(chip, colnames, text, logic = "OR")
```

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Arguments

chip name of the chip data package

colnames character vector of metadata column names to search text character vector of strings/regular expressons to match

logic type of logic to use, "AND" or "OR"

Value

A character vector of probe ids matching the search criteria.

Author(s)

```
Colin A. Smith, <annaffy@colinsmith.org>
```

See Also

aafSearchGO

Examples

```
if (require(hgu95av2.db)) {
    aafSearchText("hgu95av2.db", "Description", c("kinase", "interferon"))
# aafSearchText("hgu95av2.db", c("Gene Ontology", "Pathway"), "ribosome")
}
```

aafSigned-class

Class aafSigned, a class for signed numerical data

Description

A class for displaying signed numerical data with different styles depending on the sign.

Objects from the Class

Objects are generally created by the aafTable constructor. Objects can also be created manually by calls of the form new("aafSigned", signedval).

Slots

.Data: Object of class numeric

Extends

Class numeric, from data part.

aafSymbol 25

Methods

getTD (aafSigned): Returns an HTML table cell with class differentially set based on sign. aafSignedPos is used for positive values. aafSignedNeg is used for negative values. aafSignedZero is used for zero values.

getCSS (aafSigned): Returns two lines of CSS that set the cell background of positive values light blue and negative values light red.

See generic implementations of getText, getURL, and getHTML.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafTable

aafSymbol

Constructor for aafSymbol objects

Description

For the given probeids, constructs a list of aafSymbol objects containing annotation data from the chip data package.

Usage

```
aafSymbol(probeids, chip)
```

Arguments

probeids character vector containing probe ids
chip name of the chip data package

Value

An aafList of aafSymbol objects. NA values are returned as empty objects.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafSymbol-class

26 aafSymbol-class

Examples

```
if (require(hgu95av2.db)) {
    data(aafExpr)
    probes <- featureNames(aafExpr)
    symbols <- aafSymbol(probes, "hgu95av2.db")
    show(symbols[6:10])
}</pre>
```

aafSymbol-class

Class aafSymbol, a class for gene symbols

Description

An abstraction for gene symbol from Bioconductor data packages.

Objects from the Class

Objects are generally created by the aafSymbol constructor. Objects can also be created manually by calls of the form new("aafSymbol", description).

Slots

.Data: Object of class character with gene symbol

Extends

Class character, from data part.

Methods

No methods defined with class "aafSymbol" in the signature. See generic implementations of getText, getURL, getHTML, and getTD.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafSymbol

aafTable 27

aafTable Co	nstructor for aafTable objects
-------------	--------------------------------

Description

Constructs an aafTable object given vectors, lists, or aafList objects.

Usage

Arguments

... named arguments, one for each column

items alternatively a named list of the items to be put in the table

colnames character vector of column names

probeids character vector of probe ids associated with each row

signed boolean, should each column be colored based on the sign?

Value

An aafTable object.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafTable-class

aafTable-class Class

Class aafTable, a tabular microarray data class

Description

A class for storing and flexible output of microarray data to HTML and text formats.

Objects from the Class

Objects are generally created by any of the annotation table constructors that are also part of this package. Objects can also be created manually by calls of the form new("aafList", probeids, table).

28 aafTable-class

Slots

probeids: Object of class character containing the probe ids for each row of the table.

table: Object of class list containing aafList objects all of the same length, representing the columns of the table. Each item in the list must have a unique name.

Methods

probeids (aafTable): Returns a character vector containing the probe ids for each row of the table.

probeids<- (aafTable): Sets the probe ids for the table rows. Can be set to character(0) if unknown or not applicable.

colnames (aafTable): Returns a character vector containing the names of the columns stored in the table.

colnames<- (aafTable): Set the column names for the table. Each must be unique.

dim (aafTable): Returns the dimensions of the table.

merge (aafTable, aafTable, all = FALSE, all.x = all, all.y = all, suffixes = c(".x",".y")): Merges two tables together, aligning common probe ids if possible. Duplicate column names are given suffixes to make them unique. Returns the merged table.

rbind (aafTable, aafTable, ...): Vertically combines tables by row. Requires that column names be identical and that all tables either have probe ids defined or not.

- [Returns a subset of the table based on [row, column]. Indices may be passed as integers or probe ids/column names.
- [[Returns the given table column. This also supports recursive subsetting to address columns, then cells, then sub-cells (if applicable). See Extract for more information.
- **\\$** Returns the given table column.
- saveHTML (aafTable, filename, title = "Bioconductor Affymetrix Probe Listing", colnames = colnames(aafTable), range = 1:dim(aafTable)[1], open = FALSE, widget = FALSE): Saves the table to HTML with the specified filename and title. Both the columns and the range of table rows can be specified. Range can either be specified as a character vector of probe ids or an integer vector of row positions. One can also specify whether to open the resulting file in the browser and whether to use a widget for column selection.
- saveText (aafTable, filename, header = TRUE, colnames = colnames(aafTable), range = 1:dim(aafTable)[1], widget = FALSE): Saves the table to tab delimited text with specified filename and optional header. Both the columns and the range of table rows can be specified. Range can either be specified as a character vector of probe ids or an integer vector of row positions. One can also specify whether to use a widget for column selection.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafTable, aafTableFrame, aafTableAnn, aafTableInt

aafTableAnn 29

aafTableAnn Co	nstructor for aafTable objects from annotation data
----------------	---

Description

Constructs an aafTable object given a set of probe ids and desired annotation types.

Usage

```
aafTableAnn(probeids, chip, colnames = aaf.handler(chip = chip), widget = FALSE)
```

Arguments

probeids character vector of probe ids

chip name of the data package in which the annotation data is stored

 ${\tt colnames} \qquad \qquad {\tt character} \ {\tt vector} \ {\tt of} \ {\tt annotation} \ {\tt types}$

widget boolean, use widget to select columns?

Value

An aafTable object.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafTable-class

aafTableFrame

Constructor for aafTable objects from data frames

Description

Constructs an aafTable object given a data frame.

Usage

30 aafTableInt

Arguments

frame data frame to be converted to the table colnames character vector of column names

probeids character vector of probe ids associated with each row signed boolean, should each column be colored based on the sign?

Value

An aafTable object.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

See Also

aafTable-class

aafTableInt Constructor for aafTable objects from ExpressionSets

Description

Constructs an aafTable object containing expression values given an ExpressionSet.

In the resulting HTML table, the expression values will have backgrounds with varying intensities of green depending on the expression measure.

Usage

Arguments

exprSet object of class ExpressionSet colnames character vector of column names

probeids character vector of probe ids associated with each row

Value

An aafTable object.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

getCSS-methods 31

See Also

aafTable-class, aafIntensity

getCSS-methods

Methods for function getCSS

Description

Methods to get relevant stylesheet lines for an object.

Methods

object = ANY Returns an empty character vector.

Note

For information about other implementations of this method, see documentation of the respective class.

See Also

aafList-class, aafPubMed-class, aafGO-class, aafPathway-class, aafSigned-class

getHTML-methods

Methods for function getHTML

Description

Methods to get an HTML representation of an object.

Methods

object = ANY Returns text of object along with URL link if applicable. If object is floating point, it displays a fixed number of significant digits as specified by the sigfigs option (default 6).

Note

For information about other implementations of this method, see documentation of the respective class.

See Also

a af List-class, a af Pub Med-class, a af GO-class, a af GO Item-class, a af Pathway-class, a af Pathway Item-class

32 getText-methods

getTD-methods

Methods for function getTD

Description

Methods to get an HTML table cell representation of an object.

Methods

object = ANY Returns tag containing HTML representation of object. Sets class attribute
 to class(object).

Note

For information about other implementations of this method, see documentation of the respective class.

See Also

aafList-class, aafGO-class, aafPathway-class, aafIntensity-class

getText-methods

Methods for function getText

Description

Methods to get a textual representation of an object.

Methods

object = ANY Returns a comma delimeted list of the elements in list.

Note

For information about other implementations of this method, see documentation of the respective class.

See Also

a af Cytoband-class, a af GO-class, a af GO Item-class, a af Pathway-class, a af Pathway Item-class

getURL-methods 33

getore-methods Memous for function getore	getURL-methods Methods for function getURL
---	--

Description

Methods to get a URL link to a web resource for an object.

Methods

object = ANY Returns an empty character vector.

Note

For information about other implementations of this method, see documentation of the respective class.

See Also

aafList-class, aafGenBank-class, aafLocusLink-class, aafCytoband-class, aafUniGene-class, aafPubMed-class, aafGO-class, aafGOItem-class, aafPathwayItem-class

is.annpkg	Determine if packages contain annotation	
-----------	--	--

Description

Checks to see that the given packages contain all the necessary annotation environments to be usable by annaffy.

Usage

```
is.annpkg(packages, lib.loc = NULL)
```

Arguments

packages	character vector containing package names to check
lib.loc	a character vector with path names of R libraries, or NULL. The default value of NULL corresponds to all libraries currently known. If the default is used, the loaded packages are searched before the libraries.
	loaded packages are searched before the noralies.

Value

A logical vector indicating whether the packages contain annotation data.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

34 selectorWidget

Examples

```
pkgnames <- installed.packages()[,"Package"]
pkgnames <- pkgnames[1:5]
pkgnames[is.annpkg(pkgnames)]</pre>
```

selectorWidget

Dialog to select items from a list

Description

Presents the user with a dialog box to select items from a list.

Usage

Arguments

options vector, options to be selected from

selected vector, subset of options selected by default

title character scalar, window title

ordersel boolean, keep the selected items in order?
ordernsel boolean, keep the not selected items in order?

height scalar, height of the two listboxes

Value

A character vector containing the selected items. If a vector of a different class was initially provided, it must be manually coerced back to the correct type.

Author(s)

Colin A. Smith, <annaffy@colinsmith.org>

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