

Package ‘PubMedWordcloud’

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Title 'Pubmed' Word Clouds

Description Create a word cloud using the abstract of publications from 'Pubmed'.

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Imports XML, stringr, RCurl, wordcloud, tm, RColorBrewer

License GPL (>= 2)

URL <http://felixfan.github.io/PubMedWordcloud/>

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NeedsCompilation no

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cleanAbstracts	<i>clean data</i>
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Description

remove Punctuations, remove Numbers, Translate characters to lower or upper case, remove stop-words, remove user specified words, Stemming words.

Usage

```
cleanAbstracts(abstracts, rmNum = TRUE, tolw = TRUE, toup = FALSE,  
  rmWords = TRUE, yrWords = NULL, stemDoc = FALSE)
```

Arguments

abstracts	output of getAbstracts, or just a paragraph of text
rmNum	Remove the text document with any numbers in it or not
tolw	Translate characters in character vectors to lower case or not
toup	Translate characters in character vectors to upper case or not
rmWords	Remove a set of English stopwords (e.g., 'the') or not
yrWords	A character vector listing the words to be removed.
stemDoc	Stem words in a text document using Porter's stemming algorithm.

See Also

[getAbstracts](#)

Examples

```
# Abs=getAbstracts(c("22693232", "22564732"))  
# cleanAbs=cleanAbstracts(Abs)  
  
# text="Jobs received a number of honors and public recognition."  
# cleanD=cleanAbstracts(text)
```

colSets	<i>plot colors</i>
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Description

plot colors.

Usage

```
colSets(type)
```

Arguments

type	palette names from the lists: Accent, Dark2, Pastel1, Pastel2, Paired, Set1, Set2, Set3.
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Examples

```
# colors= colSets(type="Accent")
# colors= colSets(type="Paired")
# colors= colSets(type="Set3")
```

editPMIDs	<i>edit PMIDs</i>
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Description

add two sets of PMIDs together, or exclude one set PMIDs from another set of PMIDs.

Usage

```
editPMIDs(x, y, method = c("add", "exclude"))
```

Arguments

x	output of getPMIDs, or a set of PMIDs
y	output of getPMIDs, or a set of PMIDs
method	can be 'add' (default) or 'exclude'. see details.

Details

when method is 'add', PMIDs in 'x' and 'y' will be combined. when method is 'exclude', PMIDs in 'y' will be excluded from 'x'.

See Also

[getPMIDs](#)

Examples

```
# pmid1=getPMIDs(author="Yan-Hui Fan",dFrom=2007,dTo=2013,n=10)
# rm1="22698742"
# pmids1=editPMIDs(x=pmid1,y=rm1,method="exclude")

# pmid2=getPMIDs(author="Yanhui Fan",dFrom=2007,dTo=2013,n=10)
# rm2="20576513"
# pmids2=editPMIDs(x=pmid2,y=rm2,method="exclude")

# pmids=editPMIDs(x=pmids1,y=pmids2,method="add")
```

getAbstracts

get Abstracts

Description

retrieve abstracts of the specified PMIDs from PubMed.

Usage

```
getAbstracts(pmid, https = TRUE, s = 100)
```

Arguments

pmid	a set of PMIDs
https	use https instead of http
s	download how many PMIDs each time

See Also

[getPMIDs](#)

Examples

```
# pmids=c("22693232", "22564732", "22301463", "22015308", "21283797", "19412437")
# abstracts=getAbstracts(pmids)

# pmid="22693232"
# abstract=getAbstracts(pmid)

# pmids=getPMIDs(author="Yan-Hui Fan",dFrom=2007,dTo=2013,n=10)
# abstracts=getAbstracts(pmids)
```

getPMIDs	<i>get PMIDs using author names</i>
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Description

retrieve PMIDs (each PMID is 8 digits long) from PubMed for author and the specified date.

Usage

```
getPMIDs(author, dFrom, dTo, n = 500, https = TRUE)
```

Arguments

author	author's name
dFrom	start year
dTo	end year
n	max number of retrieved articles
https	use https instead of http

See Also

[getAbstracts](#)
[editPMIDs](#)

Examples

```
# getPMIDs(author="Yan-Hui Fan",dFrom=2007,dTo=2013,n=10)

# getPMIDs(author="Yanhui Fan",dFrom=2007,dTo=2013,n=10)
```

getPMIDsByKeyWords	<i>get PMIDs using Journal names and Keywords</i>
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Description

retrieve PMIDs (each PMID is 8 digits long) from PubMed for Specific Journal, Keywords and date.

Usage

```
getPMIDsByKeyWords(keys = NULL, journal = NULL, dFrom = NULL,
  dTo = NULL, n = 10000, https = TRUE)
```

Arguments

keys	keywords
journal	journal name
dFrom	start year
dTo	end year
n	max number of retrieved articles
https	use https instead of http

See Also[getAbstracts](#)[editPMIDs](#)[getPMIDs](#)**Examples**

```
# getPMIDsByKeyWords(keys="breast cancer", journal="science", dTo=2013)

# getPMIDsByKeyWords(keys="breast cancer", journal="science")

# getPMIDsByKeyWords(keys="breast cancer", dFrom=2012, dTo=2013)

# getPMIDsByKeyWords(journal="science", dFrom=2012, dTo=2013)
```

plotWordCloud	<i>PubMed wordcloud using function 'wordcloud' of package</i> <i>Rhrefhttps://CRAN.R-project.org/package=wordcloudwordcloud</i>
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Description

PubMed wordcloud.

Usage

```
plotWordCloud(abs, scale = c(3, 0.3), min.freq = 1, max.words = 100,
  random.order = FALSE, rot.per = 0.35, use.r.layout = FALSE,
  colors = brewer.pal(8, "Dark2"))
```

Arguments

abs	output of cleanAbstracts, or a data frame with one columne of 'word' and one columne of 'freq'.
scale	A vector of length 2 indicating the range of the size of the words.
min.freq	words with frequency below min.freq will not be plotted

<code>max.words</code>	Maximum number of words to be plotted. least frequent terms dropped
<code>random.order</code>	plot words in random order. If false, they will be plotted in decreasing frequency
<code>rot.per</code>	proportion words with 90 degree rotation
<code>use.r.layout</code>	if false, then c++ code is used for collision detection, otherwise R is used
<code>colors</code>	color words from least to most frequent

Details

This function just call 'wordcloud' from package **wordcloud**. See package **wordcloud** for more details about the parameters.

Examples

```
# text="Jobs received a number of honors and public recognition."  
# cleanD=cleanAbstracts(text)  
# plotWordCloud(cleanD,min.freq=1,scale=c(2,1))
```

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