

# Package ‘RcmdrPlugin.TextMining’

February 14, 2012

**Type** Package

**Title** Rcommander plugin for ‘tm’ package

**Version** 0.1-0

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**Maintainer** Dzemil Lusija <dzemill@gmail.com>

**Depends** R (>= 2.11.1), tcltk, tm (>= 0.5-3), XML (>= 3.1-0), Snowball (>= 0.0-7), Rgraphviz (>= 1.26.0), proxy (>= 0.4-6), Rcmdr (>= 1.5-6)

**Description** WARNING: This package is currently in beta status! This package provide GUI for demonstration of text mining concepts and ‘tm’ package. It is implemented as a plugin to the R-Commander, which is based on tcl/tk. This set of dialogs can be accessed through the menu TextMining that is added to the R-Commander menus.

**License** Artistic-2.0

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RcmdrPlugin.TextMining-package

*R-Commander plugin package that provide GUI for (tm) package*

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## Description

The plugin adds a TextMining menu to the R-Commander. This plugin provide GUI for demontstrating functions for use in text mining using package tm

The plugin is currently a beta version. You are welcome to report any bug or inconvenience.

## Details

Package:	RcmdrPlugin.TextMining
Type:	Package
Version:	1.0
Date:	2010-08-13
License:	Artistic-2.0
LazyLoad:	yes

Menu tree for RcmdrPlugin.TextMining

```

TextMining - Delete corpus ...
|- Plot ...
|- Create Corpus          - Create DirSource...

```

		- Create GmaneSource...
		- Create ReutersSource...
	- Edit Corpus	- Meta Data...
		- Write Corpus...
		- Make Chunks...
		- Inspect Corpus...
		- Corpus Summary...
	- Transformations	- To plain text documents...
		- Convert to UTF-8...
		- Remove numbers...
		- Remove punctuation...
		- Remove words...
		- Stem documents...
		- Strip whitespaces...
		- Convert to lowercase...
	- Filters	- Search full text...
		- Intersection...
	- TermDocumentMatrix	- Create TermDocumentMatrix...
		- Creating dictionary...
		- Find associations...
		- Find frequent terms...
		- Remove sparse terms...
	- Dissimilarity	- For TermDocumentMatrix...
		- For text documents...

### Remark for Windows users

John Fox, the author of R-Commander, has suggested to install R-Commander with the SDI (Single Document Interface) mode, and he also described how to change MDI to SDI, if R has been installed in the wrong mode.

### Author(s)

Dzemil Lushija

Maintainer: Dzemil Lushija <dzemill@gmail.com>

### References

You can find additional information about text mining package on <<http://cran.r-project.org/web/packages/tm/vignettes/tm.pdf>> and <<http://www.jstatsoft.org/v25/i05/paper>>.

**Description**

This function provide interface to function [findAssocs](#) from **tm** package

**Usage**

```
cAsoc()
```

**Details**

You can also acces this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> TermDocumentMatrix -> Find associations...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See Also [findAssocs](#)

---

cChunks

*Dialog for function makeChunks() from package (tm)*

---

**Description**

This function provide interface to function [makeChunks](#) from **tm** package

**Usage**

```
cChunks()
```

**Details**

Thiss function allows you to split corpus into chunks.

You can also acces this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Edit corpus -> Make Chunks...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [makeChunks](#)

---

`cDelete`*Dialog for function `rm()` from package (`base`)*

---

**Description**

This function provide interface to function `rm` from **base** package

**Usage**

```
cDelete()
```

**Details**

From list of corpuses you can choose one to remove from workspace.

You can also acces this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Delete Corpus...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [rm](#)

---

`cDict`*Dialog for function `Dictionary()` from package (`tm`)*

---

**Description**

This function provide interface to function `Dictionary` from **tm** package

**Usage**

```
cDict()
```

**Details**

With this command you can create Dictionary from list of words or from TermDocumentMatrix.

You can also acces this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> TermDocumentMatrix -> Creating dictionary...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [Dictionary](#)

---

cDiss

*Dialog for function dissimilarity() from package (tm)*

---

**Description**

This function provide interface to function [dissimilarity](#) from **tm** package for use with TermDocumentMatrix

**Usage**

```
cDiss()
```

**Details**

Compute the dissimilarity between documents in a TermDocumentMatrix.

You can also acces this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Dissimilarity -> For TermDocumentMatrix...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [dissimilarity](#)

---

cDissDoc

*Dialog for function dissimilarity() from package (tm)*

---

**Description**

This function provide interface to function [dissimilarity](#) from **tm** package

**Usage**

```
cDissDoc()
```

**Details**

Compute the dissimilarity between two explicit documents.

You can also acces this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Dissimilarity -> For text documents...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [dissimilarity](#)

---

cFreq

*Dialog for function findFreqTerms() from package (tm)*

---

**Description**

This function provide interface to function [findFreqTerms](#) from **tm** package

**Usage**

```
cFreq()
```

**Details**

This command allows you to find frequent terms in a TermDocumentMatrix.

You can also acces this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> TermDocumentMatrix -> Find frequent terms...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [findFreqTerms](#)

---

cInspect

*Dialog for function inspect() from package (tm)*

---

**Description**

This function provide interface to function [inspect](#) from **tm** package

**Usage**

```
cInspect()
```

**Details**

Displays detailed information for a corpus.

You can also access this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Edit corpus -> Inspect Corpus...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [inspect](#)

---

cInter

*Dialog for function `tm_intersect()` from package (tm)*

---

**Description**

This function provides interface to function [tm\\_intersect](#) from **tm** package

**Usage**

```
cInter()
```

**Details**

Perform intersection on text documents and words.

You can also access this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Filters -> Intersection...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [tm\\_intersect](#)

---

`cmData`*Dialog for function meta() from package (tm)*

---

**Description**

This function provide interface to function [meta](#) from **tm** package

**Usage**

```
cmData()
```

**Details**

Display meta data of corpus.

You can also acces this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Edit corpus -> Meta Data...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [meta](#)

---

`cPlain`*Dialog for function as.PlainTextDocument() from package (tm)*

---

**Description**

This function provide interface to function [as.PlainTextDocument](#) from **tm** package

**Usage**

```
cPlain()
```

**Details**

Converts all documents in corpus to plane text documents using [tm\\_map](#).

You can also acces this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Transformations -> To plain text documents...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [as.PlainTextDocument](#)

---

cPlot

*Dialog for function plot() from package (tm)*

---

**Description**

This function provide interface to function [plot](#) from **tm** package

**Usage**

cPlot()

**Details**

Visualize correlations between terms of a term-document matrix.

You can also acces this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Plot ...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [plot](#)

---

cRN

*Dialog for function removeNumbers() from package (tm)*

---

**Description**

This function provide interface to function [removeNumbers](#) from **tm** package

**Usage**

cRN()

**Details**

Remove Numbers from a Text Documents in corpus using [tm\\_map](#).

You can also acces this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Transformations -> Remove numbers...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [removeNumbers](#)

---

cRP

*Dialog for function removePunctuation() from package (tm)*

---

**Description**

This function provide interface to function [removePunctuation](#) from **tm** package

**Usage**

cRP()

**Details**

Remove all punctuation marks from a text documents in corpus using [tm\\_map](#).

You can also acces this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Transformations -> Remove punctuation...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [removePunctuation](#)

---

cSFT

*Dialog for function tm\_filter() from package (tm)*

---

**Description**

This function provide interface to function [tm\\_filter](#) from **tm** package

**Usage**

cSFT()

**Details**

Interface to apply filter functions to corpus.  
You can also access this function using Rcmdr menu.  
From Rcmdr menu choose *TextMining -> Filters -> Search full text...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [tm\\_filter](#)

---

cSparse

*Dialog for function `removeSparseTerms()` from package (tm)*

---

**Description**

This function provides interface to function [removeSparseTerms](#) from **tm** package

**Usage**

```
cSparse()
```

**Details**

Remove sparse terms from a term-document matrix.  
You can also access this function using Rcmdr menu.  
From Rcmdr menu choose *TextMining -> TermDocumentMatrix -> Remove sparse terms...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [removeSparseTerms](#)

---

cStem

*Dialog for function stemDocument() from package (tm)*

---

### Description

This function provide interface to function [stemDocument](#) from **tm** package

### Usage

```
cStem()
```

### Details

Stem words in a all text documents in corpus using Porter's stemming algorithm.

You can also acces this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Transformations -> Stem documents...*

### Author(s)

Dzemil Lushija <dzemill@gmail.com>

### See Also

See also [stemDocument](#)

---

cSummary

*Dialog for function summary() from package (base)*

---

### Description

This function provide interface to function [summary](#) from **base** package

### Usage

```
cSummary()
```

### Details

Display summary of Corpus.

You can also acces this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Edit corpus -> Corpus Summary...*

### Author(s)

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [summary](#)

---

cTolower

*Dialog for function tolower() from package (base)*

---

**Description**

This function provide interface to function [tolower](#) from **base** package

**Usage**

```
cTolower()
```

**Details**

Translate characters from upper to lower case in all text documents in corpus.  
You can also acces this function using Rcmdr menu.  
From Rcmdr menu choose *TextMining -> Transformations -> Convert to lowercase...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [tolower](#)

---

cUtf8

*Dialog for function enc2utf8() from package (base)*

---

**Description**

This function provide interface to function [enc2utf8](#) from **base** package

**Usage**

```
cUtf8()
```

**Details**

Convert the encoding of a text documents in corpus to UTF-8.  
You can also acces this function using Rcmdr menu.  
From Rcmdr menu choose *TextMining -> Transformations -> Convert to UTF-8...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [enc2utf8](#)

---

cWhite

*Dialog for function stripWhitespace() from package (tm)*

---

**Description**

This function provide interface to function [stripWhitespace](#) from **tm** package

**Usage**

```
cWhite()
```

**Details**

Strip extra whitespace from all text documents in corpus. Multiple white space characters are collapsed to a single blank.

You can also access this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Transformations -> Strip whitespaces...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [stripWhitespace](#)

---

cWords

*Dialog for function removeWords() from package (tm)*

---

**Description**

This function provide interface to function [removeWords](#) from **tm** package

**Usage**

```
cWords()
```

**Details**

Remove a set of words from all text documents in corpus.

You can also access this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Transformations -> Remove words...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [removeWords](#)

---

cWrite

*Dialog for function writeCorpus() from package (tm)*

---

**Description**

This function provides interface to function [writeCorpus](#) from **tm** package

**Usage**

```
cWrite()
```

**Details**

Write a plain text representation of a corpus to multiple files on disk corresponding to the individual documents in the corpus.

You can also access this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Edit corpus -> Write Corpus...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [writeCorpus](#)

---

`dirSource`*Dialog for function DirSource() from package (tm)*

---

**Description**

This function provide interface to function [DirSource](#) from **tm** package

**Usage**

```
dirSource()
```

**Details**

Create corpus from DirSource.

You can also acces this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Create Corpus -> Create DirSource...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [DirSource](#)

---

`gSource`*Dialog for function GmaneSource() from package (tm)*

---

**Description**

This function provide interface to function [GmaneSource](#) from **tm** package

**Usage**

```
gSource()
```

**Details**

Create corpus from GmaneSource.

You can also acces this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Create Corpus -> Create GmaneSource...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [GmaneSource](#)

---

rsSource

*Dialog for function ReutersSource() from package (tm)*

---

**Description**

This function provide interface to function [ReutersSource](#) from **tm** package

**Usage**

```
rsSource()
```

**Details**

Creatae corpus from Reuters Source.

You can also acces this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> Create corpus -> Create ReutersSource...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [ReutersSource](#)

---

TDM

*Dialog for function TermDocumentMatrix() from package (tm)*

---

**Description**

This function provide interface to function [TermDocumentMatrix](#) from **tm** package

**Usage**

```
TDM()
```

**Details**

Constructs a term-document matrix or a document-term matrix.

You can also acces this function using Rcmdr menu.

From Rcmdr menu choose *TextMining -> TermDocumentMatrix -> Create TermDocumentMatrix...*

**Author(s)**

Dzemil Lushija <dzemill@gmail.com>

**See Also**

See also [TermDocumentMatrix](#)

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