Package ‘Rcmdr’

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Date 2019-08-23
Title R Commander
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Imports tcltk, tcltk2 (>= 1.2-6), abind, relimp (>= 1.0-5), lme4, formatR
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Rcmdr-package                  R Commander

Description

A platform-independent basic-statistics GUI (graphical user interface) for R, based on the tcltk package.
Details

Package: Rcmdr
Version: 2.6-0
Date: 2019-08-23
Depends: R (>= 3.4.0), grDevices, graphics, methods, stats, utils, splines, RcmdrMisc (>= 2.5-0), car (>= 3.0-3), effects, reshape, reshape2, gridExtra, plyr
Imports: tcltk, tcltk2 (>= 1.2-6), abind, relimp (>= 1.0-5)
Suggests: aplpack, boot, colorspace, e1071, foreign, grid, Hmisc, knitr, lattice, leaps, lme4, lmtest, markdown, MASS, mgcv, nlme, nnet, nortest, readxl, rgl (>= 0.96.0), rmarkdown (>= 0.9.5), sem (>= 2.1-1)
ByteCompile: yes
License: GPL (>= 2)

Translations

The R Commander comes with translations from English into several other languages. I am grateful to the following individuals and groups for preparing these translations: Basque, Jose Ramon Rueda; Brazilian Portuguese, Adriano Azevedo-Filho and Marilia Sa Carvalho; Catalan, Manel Salamero; Chinese, Tsungwu Ho, Frank C. S. Liu, and Cheng-shun Lee; Chinese (Simplified), Shulin Yang; French, Philippe Grosjean and Milan Bouchet-Valat; Galician, Anton Meixome; German: Friedrich Leisch and Gerhard Schoen; Greek: Vasileios Dimitropoulos, Anastasios Vikatos, and Andreas Vikatos; Indonesian, I Made Tirta; Italian, Stefano Calza; Japanese, Takaharu Araki; Korean, Chel Hee Lee, Dae-Heung Jang, and Shin Jong-Hwa; Polish, Lukasz Daniel; Romanian, Adrian Dusa; Russian, Alexey Shipunov; Slovenian, Jaro Lajovic and Matjaz Jeran; Spanish, Spanish R-UCA Project, http://knuth.uca.es/R.

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Maintainer: John Fox <jfox@mcmaster.ca>

References


Install R Commander Auxiliary Software

Description

Install Pandoc and LaTeX to increase the capabilities of the R Commander.

Details

The capabilities of the R Commander can be enhanced by installing additional software. The R Commander will work without this software but some features will not be activated. The following additional software can conveniently be installed via the R Commander Tools > Install auxiliary software menu. The resulting dialog box will take you to websites where the software can be downloaded. This menu item will only be displayed if one or more of these software packages are missing.

Here are the details:

- **Pandoc**: The Pandoc documentation-conversion software is used by the R Commander to generate HTML (web), PDF, and Word files from the editable R Markdown document that is created by default during an R Commander interactive session. Pandoc is required by the rmarkdown package, which, along with the knitr package, performs these conversions. In the absence of Pandoc, R Markdown documents in the R Commander are processed by the older markdown package, which is capable only of producing HTML output. Pandoc is available from [http://johnmacfarlane.net/pandoc/installing.html](http://johnmacfarlane.net/pandoc/installing.html).

  On Windows systems, Pandoc installs into a non-standard location in your user directory, typically C:\Users\<your user id>\AppData\Local\Pandoc\, and then places this subdirectory on your system path. You may have to reboot for the change to your path to take effect, and I have found it necessary on two Windows 10 systems to re-run the Pandoc installer, first to uninstall Pandoc, and then to re-install it before it would be work.

- **LaTeX**: The LaTeX technical-typesetting system is required by the R Commander for PDF output from R Markdown or knitr documents produced during interactive R Commander sessions. In the absence of LaTeX, direct PDF output is unavailable. Complete LaTeX systems are available for the various platforms that support R and the R Commander, including MiKTeX from [http://miktex.org/download](http://miktex.org/download) for Windows systems; MacTeX from [http://www.tug.org/mactex/](http://www.tug.org/mactex/) for MacOSX; and various sources (see [http://latex-project.org/ftp.html](http://latex-project.org/ftp.html)) for Linux/Unix systems.

See Also

Commander
Description

The CFA dialog is used to create and fit a confirmatory factor analysis model via the \texttt{cfa} and \texttt{sem} functions in the \texttt{sem} package.

Details

Select two or more variables for each factor by \textit{Control}-clicking on their names in the variable-list box. Optionally give the factor a name; this must be a valid R name. Then press the \textit{Define factor} button.

Continue in this manner until all factors are specified. Note that if there are not at least two unique variables selected for each factor, the model will probably be underidentified, causing \texttt{sem} to fail.

The radio buttons at the top of the dialog may be used to analyze either the correlation matrix or covariance matrix of the observed variables; to specify either correlated or orthogonal factors; and to identify the model either by setting the factor variance to 1 or by setting the first loading for each factor to 1 (establishing a “reference indicator” for the factor). A check box is provided to compute robust standard errors and tests.

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See Also

\texttt{sem}, \texttt{cfa}

Commander

\textit{R Commander}

Description

Start the R Commander GUI (graphical user interface)

Usage

\texttt{Commander()}
Details

Getting Started

For more detailed information about getting started, see Help -> Introduction to the R Commander from the R Commander menus or Fox (2017).

The default R Commander interface consists of (from top to bottom) a menu bar, a toolbar, a code window with script and R Markdown tabs, an output window, and a messages window.

Commands to read, write, transform, and analyze data are entered using the menus in the menu bar at the top of the Commander window. Most menu items lead to dialog boxes requesting further specification. I suggest that you explore the menus to see what is available.

Below the menu bar is a toolbar with (from left to right) an information field displaying the name of the active data set; buttons for editing and displaying the active data set; and an information field showing the active statistical model. There is also a Submit button for re-executing commands in the Script tab. The information fields for the active data set and active model are actually buttons that can be used to select the active data set and model from among, respectively, data frames or suitable model objects in memory.

Almost all commands require an active data set. When the Commander starts, there is no active data set, as indicated in the data set information field. A data set becomes the active data set when it is read into memory from an R package or imported from a text file, SPSS data set, Minitab data set, STATA data set, SAS XPORT data set; or an Excel spreadsheet. In addition, the active data set can be selected from among R data frames resident in memory. You can therefore switch among data sets during a session.

By default, commands are logged to the Script tab (the initially empty text window immediately below the toolbar), and commands and output appear in the Output window (the initially empty text window below the Script tab). Commands that don’t require direct user interaction (such as interactive identification of points on a graph) are also used to create an R Markdown document in the tab of the same name. When the R Markdown tab is in front, pressing the "Generate HTML report" button compiles the document to create an html page with input and output, which opens in a web browser. To alter these and other defaults, see the information below on configuration. Note, for example, that the knitr package can be used to create a LaTeX document to be compiled to a PDF report, as an alternative to — or in addition to — an R Markdown document (see the use.knitr option below).

Some Rcmdr dialogs (those in the Statistics -> Fit models menu) produce linear, generalized linear, or other models. When a model is fit, it becomes the active model, as indicated in the information field in the R Commander toolbar. Items in the Models menu apply to the active model. Initially, there is no active model. If there are several models in memory, you can select the active model from among them.

If command logging in turned on, R commands that are generated from the menus and dialog boxes are entered into the Script and R Markdown tabs in the Commander. You can edit these commands in the normal manner and can also type new commands. You can also type explanatory text in the R Markdown tab. Individual commands in the Script tab can be continued over more than one line, but the several lines of a multi-line command must be submitted simultaneously. (It is not necessary, as in earlier versions of the R Commander, to begin continuation lines with white space.)

The contents of the Script and R Markdown tabs can be saved during or at the end of the session, and a saved script or R Markdown document can be loaded into the respective tabs. The contents of the Output window can also be edited or saved to a text file. Finally, editing operations also work in the Messages window.
To re-execute a command or set of commands in the Script tab, select the lines to be executed using the mouse and press the *Submit* button at the right of the toolbar (or *Control-R*, for "run", or *Control-Tab*). If no text is selected, the *Submit* button (or *Control-R* or *Control-Tab*) submits the line containing the text-insertion cursor. Note that an error will be generated if the submitted command or commands are incomplete.

Pressing *Control-F* brings up a find-text dialog box (which can also be accessed via *Edit -> Find*) to search for text in the Script tab, R Markdown tab, knitr tab, Output window, or Messages window. Edit functions such as search are performed in the Script tab unless you first click in another tab or window to make it active.

Pressing *Control-S* will save the Script tab, R Markdown tab, knitr tab, or Output window.

Pressing *Control-A* selects all of the text in the Script tab, R Markdown tab, knitr tab, Output window, or Messages window.

In addition, the following Control-key combinations work in these tabs and windows: *Control-X*, cut; *Control-C*, copy; *Control-V*, insert; *Control-Z* or *Alt-Backspace*, undo; and *Control-W*, redo.

Under Mac OS X, the *command* key may be used in place of the *Control* key, though the latter works as well.

Right-clicking the mouse (clicking button 3 on a three-button mouse, or *Control*-left-clicking) in the tabs or windows brings up a "context" menu with the *Edit*-menu items, plus (in the Script, R Markdown, and knitr tabs) a *Submit* item.

You can open a larger editor window with the document in the Markdown or knitr tab by making the corresponding selection from the *Edit* menu, the right-click context menu when the cursor is in the tab, or by pressing *Control-E* when the cursor is in the tab.

When you execute commands from the *Commander* window, you must ensure that the sequence of commands is logical. For example, it makes no sense to fit a statistical model to a data set that has not been read into memory.

Pressing a letter key (e.g., "a") in a list box will scroll the list box to bring the next entry starting with that letter to the top of the box.

You can cancel an R Commander dialog box by pressing the *Esc* key.

Most R Commander dialogs remember their state when this is appropriate, and can be restored to pristine state by pressing the Reset button.

Some R Commander dialogs have an Apply button that will execute the command generated by the dialog and then re-open the dialog in its previous state.

Exit from the Commander via the *File -> Exit* menu or by closing the *Commander* window.

**Customization and Configuration**

The preferred way of customizing the R Commander is to write a plug-in package: see `help("Plugins")`. Alternatively, configuration files reside in the *etc* subdirectory of the package, or in the locations given by the *etc* and *etcMenus* options (see below).

The *Rcmdr* menus can be customized by editing the file *Rcmdr-menus.txt*.

You can add R code to the package, e.g., for creating additional dialogs, by placing files with file type `.R` in the *etc* directory, also editing *Rcmdr-menus.txt* to provide additional menus, sub-menus, or menu-items. Alternatively, you can edit the source package and recompile it.

To reiterate, however, the preferred procedure is to write an R Commander plug-in package.
A number of functions are provided to assist in writing dialogs, and `Rcmdr` state information is stored in a separate environment. See `help("Rcmdr.Utilities")` and the manual supplied in the doc directory of the `Rcmdr` package for more information.

In addition, several features are controlled by run-time options, set via the `options("Rcmdr")` command. These options should be set before the package is loaded. If the options are unset, which is the usual situation, defaults are used. Specify options as a list of `name=value` pairs. You can set none, one, several, or all options. The available options are as follows:

`ask.to.exit` if `TRUE` (the default), then the user is asked whether he or she wants to exit the `Rcmdr`; if this option is set to `FALSE`, then the subsequent option is also set to `FALSE`.

`ask.on.exit` if `TRUE` (the default), then the user is asked whether to save the script file, R Markdown file, and output file when the `Rcmdr` exits.

`attach.data.set` if `TRUE` (the default is `FALSE`), the active data set is attached to the search path.

`check.packages` if `TRUE` (the default), on start-up, the presence of all of the `Rcmdr` recommended packages will be checked, and if any are absent, the `Rcmdr` will offer to install them.

`command.text.color` Color for commands in the output window; the default is "red".

`console.output` If `TRUE`, output is directed to the R Console, and the R Commander output window is not displayed. The default is `FALSE`, unless the R Commander is running under RStudio, in which case the default is `TRUE`.

`crispdialogs` If `TRUE`, dialogs should appear on the screen fully drawn, rather than built up widget by widget. Prior to R 2.6.1, this option only works on the Windows version of R, but should in any event be harmless. The default is `TRUE`. If you encounter stability problems, try setting this option to `FALSE`.

`default.contrasts` Serves the same function as the general `contrasts` option; the default is `c("contr.Treatment","contr.poly")`. When the Commander exits, the contrasts option is returned to its pre-existing value. Note that `contr.Treatment` is from the car package.

`default.font.family` The default font for GUI elements such as menus and text labels, in the form of a Tk font family specification, given in a character string. For example, "Helvetica" specifies the sans-serif Helvetica font family. The default is taken from the TkDefaultFont. Normally a sans-serif font should be used.

`default.font.size` The size, in points, of the default font. The default is 10 on non-Windows system and the size of the system font on Windows. To set the font size for R input and output, see the `log.font.size` option. The `Rcmdr` `scale.factor` option may also be used to control font size.

`double.click` Set to `TRUE` if you want a double-click of the left mouse button to press the default button in all dialogs. The default is `FALSE`.

`editDataset.threshold` If the number of values in the current data set exceed this value (the default is 10000), then the standard R data editor is used in preference to the R Commander `editDataset` editor.

`error.text.color` Color for error messages; the default is "red".

`etc` Set to the path of the directory containing the `Rcmdr` configuration files; defaults to the etc subdirectory of the installed `Rcmdr` package.

`grab.focus` Set to `TRUE` for the current Tk window to "grab" the focus — that is, to prevent the focus from being changed to another Tk window. On some systems, grabbing the focus in this manner apparently causes problems. The default is `TRUE`. If you experience focus problems, try setting this option to `FALSE`. 
help_type  This Rcmdr option takes precedence over the global R help_type option (see options and help), and by default is set to "html".

iconify.commander  If TRUE, the Commander window is minimized on startup; the default is FALSE.

length.output.stack  The R Commander maintains a list of output objects, by default including the last several outputs; the default length of the output stack is 10. popOutput() "pops" (i.e., returns and removes) the first entry of the output stack. Note that, as a stack, the queue is LIFO ("last in, first out").

length.command.stack  The R Commander also maintains a list of commands that is managed similarly; the default length of this stack is also 10.

log.commands  If TRUE (the default), commands are echoed to the script window; if FALSE, the script window is not displayed.

log.font.family  The font family to be used for text in the script window, output window, messages window, etc., specified as a character vector giving a Tk font family. This should normally be a monospaced font like "Courier". The default is taken from the TkFixedFont.

log.font.size  The font size, in points, to be used in the script window, in the output window, messages window, in recode dialogs, and in compute expressions — that is, where a monospaced font is used. The default is 10. Alternatively the Rcmdr scale factor option may also be used to control font size.

log.height  The height of the script window, in lines. The default is 10. Setting log.height to 0 has the same effect as setting log.commands to FALSE.

log.text.color  Color for text in the script window; the default is "black".

log.width  The width of the script and output windows, in characters. The default is 80.

messages.height  The height of the messages window, in lines. The default is 3.

multiple.select.mode  Affects the way multiple variables are selected in variable-list boxes. If set to "extended" (the default), left-clicking on a variable selects it and deselects any other variables that are selected; Control-left-click toggles the selection (and may be used to select additional variables); Shift-left-click extends the selection. This is the standard Windows convention. If set to "multiple", left-clicking toggles the selection of a variable and may be used to select more than one variable. This is the behaviour in the Rcmdr prior to version 1.9-10.

number.messages  If TRUE, the default, messages in the messages window are numbered.

output.height  The height of the output window, in lines. The default is twice the height of the script window, or 20 if the script window is suppressed. Setting output.height to 0 has the same effect as setting console.output to TRUE.

output.text.color  Color for output in the output window; the default is "blue".

placement  Placement of the R Commander window, in pixels; the default is "", which lets the Tk window manager decide where to place the window; for example, "+20+20" should put the window near the upper-left corner of the screen. "-20+20" near the upper-right corner, though this doesn't appear to work reliably on Windows systems.

plugins  A character vector giving the names of Rcmdr plug-in packages to load when the Commander starts up. Plug-in packages can also be loaded from the Tools -> Load Rcmdr plug-in(s) menu. See Plugins.
prefixes A four-item character vector to specify the prefixes used when output is directed to the
R console; the default is c("Rcmdr> ","Rcmdr+ ","RcmdrMsg: ","RcmdrMsg+ ").

quit.R.on.close if TRUE, both the Commander and R are exited when the Commander window is
closed. The default is FALSE, in which case only the Commander is exited (and can be
restarted by the command Commander( )).

RcmdrEnv.on.path If TRUE (the default is FALSE), the environment in which R Commander state
information is stored is placed on the search path. Some plug-ins, at least until they are
updated, may require this setting.

retain.messages If TRUE (the default), the contents of the message window are not erased be-
tween messages. In any event, a "NOTE" message will not erase a preceding "WARNING" or
"ERROR".

retain.selections If TRUE (the default), dialogs remember their previous state, where appropri-
ate, as long as the data set isn’t changed; some dialogs, e.g., for probabilities, retain selections
even when the data set changes.

RExcelSupport If TRUE (the default is FALSE), menus and output are handled by Excel.

rmd.output.format The output file type for R Markdown documents if pandoc is installed; one
of "html" (the default), "pdf" (requires LaTeX), "docx" (Word), or "rtf" (rich text file).

rmd.template The quoted path to a .Rmd file to serve as a template for R code and output. The
default is to use a template included with the package.

scale.factor A scaling factor to be applied to all Tk elements, such as fonts. This works well
only in Windows. The default is NULL.

scientific.notation Higher numbers cause ordinary (decimal) notation to be increasingly pre-
favored to scientific notation for representing very small and very large numbers; correspond to
the scipen option in R: see options. The default is 5, while the standard default in R is 0
(where 0 means that scientific notation is used whenever the resulting printed representation
of a number is smaller in scientific than in standard notation).

showData.threshold a vector with 2 entries, defaulting to c(20000,100). If the number of cases
in the active data set exceeds the first number (default, 20,000) or the number of variables
exceeds the second number (default, 100), then View() rather than showData() is used to
display the data set. The reason for the option is that showData() is very slow when the
number of cases or variables is large; setting the threshold to c(0,0) suppresses the use of
showData altogether. It's necessary to use showData however for the view of the active data
set to be updated dynamically when, e.g., a variable is added.

show.edit.button Set to TRUE (the default) if you want an Edit button in the Commander window,
permitting you to edit the active data set. Windows users may wish to set this option to FALSE
to suppress the Edit button because changing variable names in the data editor can cause R to
crash (though I believe that this problem as been solved).

sort.names Set to TRUE (the default) if you want variable names to be sorted alphabetically in
variable lists.

suppress.icon.images Set to TRUE to suppress the icon images in dialog OK, Cancel, Reset, and
Help buttons; the default is FALSE.

suppress.menus if TRUE, the Commander menu bar and tool bar are suppressed, allowing another
program (such as Excel) to take over these functions. The default (of course) is FALSE.
suppress.X11.warnings  On (some?) Linux and Mac OS X systems, multiple X11 warnings are generated by Rcmdr commands after a graphics-device window has been opened. Set this option to TRUE (the default when running interactively under X11) to suppress reporting of these warnings. An undesirable side effect is that then all warnings and error messages are intercepted by the Rcmdr, even those for commands entered at the R command prompt. Messages produced by such commands will be printed in the Commander Messages window after the next Rcmdr-generated command. Some X11 warnings may be printed when you exit from the Commander.

theme  A ttk theme to control the overall style of the Commander GUI; should be one of the themes returned by tcltk2::tk2theme.list(). The default theme varies by operating system, and can be discovered by entering the command tcltk2::tk2theme() in a fresh R session.

title.color  Color for the titles of some widgets, such as variable-list boxes; can be given as a color name, such as "blue" or as an RGB value, such as "#0000FF". The default is the standard color for ttk label frames, unless that is "#000000" or "black", in which case "blue" is used instead.

tkwait.commander  This option addresses a problem that, to my knowledge, is rare, and may occur on some non-Windows systems. If the Commander causes R to hang, then set the tkwait option to TRUE; otherwise set the option to FALSE or ignore it. An undesirable side effect of setting the tkwait.commander option to TRUE is that the R session command prompt is suppressed until the Commander exits. One can still enter commands via the script window, however. In particular, there is no reason to use this option under Windows, and it should not be used with the Windows R GUI with buffered output when output is directed to the R console.

tkwait.dialog  If TRUE (the default is FALSE), R will wait until an R Commander dialog is closed. This has the disadvantage of preventing help pages from being displayed until a dialog is closed in the Mac OS X R.app and in RStudio. This was also the standard behavior of the R Commander in earlier versions and is provided for compatibility with previous behavior. If this option is TRUE, then the R Commander data editor is disabled in favor of the standard R platform-specific data editor, and the new-data-set menu item is suppressed.

use.knitr  If TRUE (the default is FALSE), a knitr .Rnw LaTeX document is created in a tab of the main Commander window; this document can be compiled into .tex and .pdf reports via the knit2pdf function in the knitr package.

use.markdown  If TRUE (the default is the negation of the use.knitr argument), an R Markdown document is created, which can be compiled into an HTML, PDF, Word, or rich text file report.

use.rgl  If TRUE (the default), the rgl package will be loaded if it is present in an accessible library; if FALSE, the rgl package will be ignored even if it is available. The rgl package can sometimes cause problems when running R under X11.

variable.list.height the number of items (typically variables) to display in list boxes; longer lists may be viewed by scrolling. The default is 6.

variable.list.width a two-item vector controlling the width of list boxes, in characters, giving the minimum and maximum width to display; the default is c(20,Inf). If the widest item name falls in this range, then its number of characters determines the width of the box. Note: This specification works only approximately.

warning.text.color  Color for warning messages; the default is "darkgreen".
Some options can also be set via the *File* -> *Options* menu, which will restart the Commander after options are set.

If you want always to launch the R Commander when R starts up, you can include the following code in one of R’s start-up files (e.g., in the rprofile.site file in R’s etc subdirectory):

```r
local({
  old <- getOption("defaultPackages")
  options(defaultPackages = c(old, "Rcmdr"))
})
```

R Commander options can also be permanently set in the same manner. For more information about R initialization, see ?Startup.

**Warning**

The R Commander Script window does not provide a true console to R, and may have certain limitations. I don’t recommend using the R Commander for serious programming or for data analysis that relies primarily on scripts — use a programming editor instead. If you encounter any problems with the Script tab, however, I’d appreciate it if you brought them to my attention.

**Platform-Specific Issues**

Under Windows, the *Rcmdr* package can be run under the *Rgui* in the SDI (single-document interface) mode, or under *rterm.exe*. You might experience problems running the *Rcmdr* under ESS with NTEmacs or XEmacs, or under other R consoles. The R Commander can be run under the *Rgui* in MDI (multiple-document interface) mode but it is relatively inconvenient to do so and isn’t recommended.

Occasionally, under Windows, after typing some text into a dialog box (e.g., a subsetting expression in the Subset Data Set dialog), buttons in the dialog (e.g., the OK button) will have no effect when they are pressed. Clicking anywhere inside or outside of the dialog box should restore the function of the buttons. As far as I have been able to ascertain, this is a problem with Tcl/Tk for Windows. I have not seen this behavior in some time and the problem may have been solved.

Under Mac OS X Mavericks and later, the R Commander may appear to freeze or hesitate when run under *R.app* if the *R.app* window is hidden and "app nap" is turned on. It is recommended that app nap be turned off for *R.app*, which can be most conveniently done via the R Commander *Tools* menu. The app nap setting is permanent until changed and so the current setting will apply whether or not the R Commander is used. When R is first installed, app nap will be on for *R.app*. The *tcltk* package requires that X Windows is installed under Mac OS X, and as a consequence the *Rcmdr* package, which depends on *tcltk*, will not load if X Windows is absent. X Windows for Mac OS X may be obtained from [http://xquartz.macosforge.org](http://xquartz.macosforge.org).

**Note**

On startup, the R Commander sets `options(na.action=na.exclude)`; this is done so that observation statistics such as residuals can be properly added to the active data set when there are missing values. The option is reset to its pre-existing value when the Commander exits. Some functions may not work properly when the default `na.action` is set to `na.exclude`.

This version should be compatible with the *RExcel* package, which can use the R Commander menus.
Inicia la GUI (Interfaz Gráfica de Usuario) de R Commander

**Usage**

`Commander()`
que pueden ser usados para seleccionar éstos entre, respectivamente, conjuntos de datos o modelos disponibles en memoria.

La mayor parte de las órdenes requiere un conjunto de datos activos. Cuando se ejecuta R Commander no hay conjunto de datos activos, como está indicado en el campo de información del conjunto de datos activos. Un conjunto de datos llega a ser un conjunto de datos activos cuando éste es leído en la memoria desde un paquete R o importado desde un archivo de texto, conjunto de datos SPSS, conjunto de datos Minitab, conjunto de datos STATA, Excel, Access o dBase. Además el conjunto de datos activos puede ser seleccionado desde conjuntos de datos R residentes en memoria. Los datos pueden ser elegidos de entre todos los conjuntos para cada sesión.

Por defecto, las órdenes son registradas en la ventana de instrucciones (la ventana de texto vacía inmediatamente después de la barra de herramientas); las órdenes y las salidas aparecen en la ventana de resultados (la ventana de texto vacía después de la ventana de instrucciones) y el conjunto de datos activos es adjuntado a la ruta de búsqueda. Para alterar éstos y otros parámetros por defecto, puede consultar la información pertinente en configuración.

Algunos diálogos de Rcmdr (éstos en Estadísticos -> Ajuste de modelos) generan el modelo lineal, modelo lineal generalizado y otros modelos. Cuando un modelo es ajustado, se convierte en el modelo activo, indicado en el campo de información de la barra de herramientas de R Commander. Los ítems del menú Modelos se aplican al modelo activo. Inicialmente, no hay modelo activo. Si hay varios modelos en memoria, puede elegir el modelo activo de entre ellos.

Si el registro de instrucciones está activo, las órdenes de R generadas desde los menús y los cuadros de diálogos, son introducidas en la ventana de instrucciones de R Commander. Se pueden editar estas órdenes de manera normal y se pueden escribir otras nuevas en la ventana de instrucciones. Las órdenes individuales pueden ser continuadas en más de una línea, pero cada línea después de la primera debe ser identada con uno o más espacios o tabuladores. El contenido de la ventana de instrucciones puede ser almacenado durante o al final de la sesión y un conjunto de instrucciones guardado puede ser cargado en la ventana de instrucciones. El contenido de la ventana de resultados puede ser editado o guardado en un archivo de texto.

Para volver a ejecutar una orden o un conjunto de ellas, se seleccionan las líneas que se desean ejecutar usando el ratón y se presiona el botón Ejecutar, situado a la derecha de la barra de herramientas (o Control-R, para ejecutarlos). Si no hay texto seleccionado el botón Ejecutar (o Control-R) envía el contenido de la línea que contiene el cursor de inserción. Observar que se generará un error si la orden o las órdenes enviadas son incompletas.

Presionando Control-F se abre un cuadro de diálogo de búsqueda de texto (también es accesible vía Editar -> Buscar) para buscar el texto en la ventana de instrucciones o la ventana de resultados. Las búsquedas son realizadas en la ventana de instrucciones a menos que primero pulse en la ventana de resultados para activarla.

Presionando Control-S se guardará el conjunto de instrucciones o la ventana de resultados.

Presionando Control-A se selecciona todo el texto del conjunto de instrucciones o de la ventana de resultados.

Pulsando el botón derecho del ratón (el tercer botón en un ratón de tres botones) en el conjunto de instrucciones o en la ventana de resultados se abre el menú contextual con los ítems del menú Editar, más un ítem Ejecutar (en la ventana de instrucciones).

Cuando execute órdenes en la ventana de R Commander, debe asegurarse que la sentencia sea lógica. Por ejemplo, no tiene sentido ajustar un modelo estadístico de un conjunto de datos que no ha sido leído en memoria.
Presionando una letra (ej. "a") en un cuadro con una lista se recorrerá ésta hasta la siguiente entrada que comience con esa letra desde el principio del cuadro.

Salir de R Commander se realiza mediante **Fichero -> Salir** o cerrando la ventana de R Commander.

**Personalización y configuración**

Los archivos de configuración están en el subdirectory **etc** de cada paquete o en la localización dada por **etc** y en las opciones de **etcMenus** (mirar abajo).

Los menús de Rcmdr pueden ser personalizados editando el archivo **Rcmdr-menus.txt**.

Algunas funciones (ej. histograma) que normalmente no crean salida visible cuando se ejecutan desde la consola sí lo harán - a menos que se evite - cuando se ejecuten desde la ventana de instrucciones de R Commander. Tal salida puede ser suprimida listando los nombres de estas funciones en el archivo **log-exceptions.txt**.

Puede añadir código R al paquete, ej., para crear diálogos adicionales, colocando archivos con extensión .R en el directorio etc, además puede editar **Rcmdr-menus.txt** para proporcionar menús adicionales, submenús o ítems. Una demostración de esto se proporciona mediante el archivo **BoxCox.demo**. Para activar la demo, renombre el archivo a **BoxCox.R** y descúmple la correspondiente línea de menú en **Rcmdr-menus.txt**. De forma alternativa, puede editar el código del paquete y recompilarlo.

Algunas funciones son proporcionadas para ayudar a escribir diálogos y la información del estado de Rcmdr en un emplazamiento separado. Mirar **help("Rcmdr.Utilities")** y el manual suministrado en el directorio **doc** del paquete de Rcmdr para mayor información.

Además, varias características son controladas mediante opciones, en tiempos de ejecución, establecidas por la orden **options("Rcmdr")**. Estas opciones deben ser establecidas antes de cargar el paquete. Si las opciones no están establecidas, que es la situación normal, serán usados los parámetros por defecto. Las opciones se especifican como una lista de pares name$=$values.

Puede no establecer, establecer una, varias, o todas las opciones. Las opciones disponibles son las dadas a continuación:

- **attach.data.set** Si es TRUE (por defecto FALSE), el conjunto de datos activo es fijado como la ruta de búsqueda.
- **check.packages** Si es TRUE (por defecto), al arranque, la presencia de todos los paquetes recomendados de Rcmdr serán comprobados y si alguno no está instalado, Rcmdr preguntará si deben instalarse.
- **command.text.color** El color de las órdenes en la ventana de resultados es, por defecto, "red".
- **console.output** Si es TRUE la salida será dirigida a la consola de R y la ventana de salida de R Commander no se mostrará. Por defecto es FALSE.
- **contrasts** Ofrece la misma función que la opción general contrasts; por defecto es c("contr.Treatment","contr.poly")
  Cuando se sale de Commander la opción contrasts vuelve a su valor preexistente. Observe que **contr.Treatment** es del paquete car.
- **crisp.dialogs** Si es TRUE, los diálogos deben aparecer en la pantalla dibujada completamente, más que acumular dispositivo a dispositivo. Esta opción debería afectar sólo a versiones Windows de R, pero debe en cualquier caso ser inofensivo. Por defecto es TRUE bajo versiones Windows de R 2.1.1 y superiores y FALSE si no. Si está trabajando en Windows y encuentra que se incrementan los problemas de estabilidad, prube establecer esta opción a FALSE.
default.font La fuente por defecto, como la especificación de la fuente de X11, dada en cadena de caracteres. Si está especificado, este valor toma precedencia sobre el tamaño de la fuente por defecto (abajo). Esta opción es sólo para sistemas no-Windows.

default.font.size Tamaño, en puntos, por defecto de la fuente. Por defecto es 10 para sistemas Windows y 12 para otros sistemas, salvo especificación de lo contrario (mirar el item anterior). La fuente por defecto es "*helvetica-medium-r-normal-xx*", donde xx es por defecto el tamaño de la fuente. Esta opción es sólo para sistemas no-Windows.

double.click Establecer a TRUE si quiere que un doble click con el botón izquierdo del ratón sirva para pulsar el botón por defecto en todos los diálogos. Por defecto es FALSE.

error.text.color Color de los mensajes de error; por defecto es "red".

etc Establece la ruta del directorio que contiene los archivos de configuración de Rcmdr; por defecto el subdirectorio etc del paquete Rcmdr instalado.

grab.focus Establecer a TRUE para “mantener” el enfoque en la ventana actual de Tk, esto es, para prevenir que el enfoque sea cambiado a otra ventana Tk. En algunos sistemas, mantener el enfoque de esta forma, puede causar problemas. Por defecto es TRUE. Si experimenta problemas de enfoque, intente establecer esta opción a FALSE.

load.at.startup Vector de caracteres de nombres de los paquetes que deben ser cargados cuando el paquete Rcmdr es cargado; por defecto se carga sólo el paquete car. Otros paquetes requeridos serán cargados cuando se necesiten. Si esto está disponible, el paquete car será cargado cuando Commander se inicie en cualquier caso.

log.commands Si es TRUE (por defecto), los comandos son repetidos en la ventana de instrucciones; si es FALSE, la ventana de instrucciones no se muestra.

log.font.size Tamaño de la fuente, en puntos, que es usado en la ventana de instrucciones, en la ventana de resultados, en diálogos recodificados y en expresiones de cálculo, esto es, donde es usada una fuente monoespacio. Por defecto es 10 para sistemas Windows y 12 para otros sistemas.

log.height La altura de la ventana de instrucciones, en líneas. Por defecto es 10. Estableciendo log.height a 0 tiene el mismo efecto que establer log.commands a FALSE.

log.text.color Color del texto de la ventana de instrucciones; por defecto es "black".

log.width La anchura de la ventana de instrucciones y la de salida, en caracteres. Por defecto es 80.

multiple.select.mode Afecta a la forma en la que múltiples variables son seleccionadas en una caja de listas de variables. Si se establece a "extended" (por defecto), el botón izquierdo en una variable selecciona ésta y deselecciona cualquier otra variable que estuviera seleccionada; Control+botón izquierdo acciona la selección (y puede ser usado para seleccionar variables adicionales); Mayúsculas+botón izquierdo extiende la selección. éste es el convenio estándar de Windows. Si lo establece a "multiple", el botón izquierdo acciona la selección de una variable y puede ser usado para seleccionar más de una variable. éste es el comportamiento de Rcmdr antes de la versión 1.9-10.

output.height Altura de la ventana de resultados, en líneas. Por defecto es dos veces la altura de la ventana de instrucciones o 20 si la ventana de instrucciones es suprimida. Establecer output.height a 0 tiene el mismo efecto que console.output a TRUE.

output.text.color Color de la salida en la ventana de resultados, por defecto es "blue".

placement Emplazamiento de la ventana de R Commander, en píxeles; por defecto es "$-40+20$", lo que pone la ventana cerca de la esquina superior derecha de la pantalla.
plugins Vector de caracteres con los nombres de paquetes de plugins de Rcmdr a cargar cuando Commander arranque. Los paquetes plugins también pueden ser cargados desde el menú Herramientas -> Cargar paquete(s).

suppress.menus Si es TRUE, la barra de menús y de herramientas de R Commander son suprimidas, permitiendo que otro programa (como Excel) asuma esas funciones. Por defecto (por supuesto) es FALSE.

suppress.X11.warnings En (algunos) sistemas Linux X11 se generan múltiples advertencias por las órdenes de Rcmdr, después de abrir la ventana del dispositivo gráfico. Establecer esta opción a TRUE (por defecto cuando arranca interactivamente bajo X11 antes de la versión de R 2.4.0) suprime la aparición de estas advertencias. Un efecto secundario indeseable es que entonces todas las advertencias y mensajes de error son interceptados por Rcmdr, incluso para las instrucciones introducidas en los avisos de R. Los mensajes producidos por tales órdenes serán impresos en la ventana de mensajes de R Commander después de la siguiente orden generada en Rcmdr. Algunas advertencias de X11 pueden ser impresas al salir de R Commander. Este problema sólo se aplica a versiones de R anteriores a 2.4.0 y el valor por defecto de la opción es establecido por consiguiente.

retain.messages Si es TRUE (por defecto FALSE), el contenido de la ventana de mensajes no es borrado entre mensajes. En cualquier caso, un mensaje "NOTE" no borrará un anterior "WARNING" o "ERROR".

RExcelSupport Establecido como TRUE (por defecto es FALSE), los menús y salidas son dirigidas a Excel.

scale.factor Factor de escala aplicado a todos los elementos Tk, como las fuentes. Esto funciona bien sólo en Windows. Por defecto es NULL.

showData.threshold Si el número de variables en el conjunto de datos activos excede este valor (por defecto, 100), entonces edit(), más que showData(), es utilizado para exhibir el conjunto de datos. Un inconveniente es que el control no se devuelve a Commander hasta que la ventana de edición sea cerrada. La razón de esta opción es que showData() es muy lento cuando el número de variables es grande; fijando el umbral a 0 suprime el uso en conjunto de showData.

show.edit.button Fijar a TRUE (por defecto) si quiere un botón Editar en la ventana de Commander, que permita editar el conjunto activo de datos. Los usuarios de Windows pueden desear establecer esta opción a FALSE para suprimir el botón Editar porque cambiando los nombres de las variables en el editor de datos se puede causar que R falle (aunque este problema se cree solucionado).

sort.names Fijar a TRUE (por defecto) si se quiere ordenar alfabéticamente el nombre de las variables en una lista de variables.

tkwait Esta opción trata un problema que, en mi conocimiento, es raro y puede ocurrir en algunos sistemas no Windows. Si R Commander causa que se cuelgue R, entonces establezca la opción tkwait a TRUE; o conserve la opción en FALSE e ignórela. Un indeseable efecto secundario de establecer la opción tkwait a TRUE es que el aviso de órdenes de la sesión de R es suprimido hasta salir de R Commander. Uno sin embargo todavía puede introducir órdenes por la ventana de instrucciones. En particular, no hay razón para usar esta opción bajo Windows y no se debería usar con la GUI de R en Windows con salida protegida cuando la salida esté dirigida a la consola de R.

use.rgl Si es TRUE (por defecto), el paquete rgl será cargado si está presente en una librería accesible, si es FALSE, el paquete rgl será ignorado aunque esté disponible. El paquete rgl puede a veces causar problemas cuando se arranca R bajo X11.
warning.text.color Color de los mensajes de advertencia; por defecto es "darkgreen".

Muchas opciones pueden también ser establecidas mediante el menú Archivo -> Opciones, que reiniciará R Commander después de que las opciones sean establecidas.

Si quiere lanzar R Commander cuando inicie R, puede incluir la siguiente instrucción en uno de los ficheros de inicio de R (por ejemplo, en el fichero Rprofile.site de la carpeta etc de R):

```r
local(
  old <-getOption("defaultPackages")
  options(defaultPackages = c(old, "Rcmdr"))
)
```

Las opciones de R Commander puede ser establecidas de forma permanente de la misma forma. Para más información sobre el inicio de R, véase ?Startup.

**Avisos**

La ventana de instrucciones de R Commander no proporciona una verdadera consola a R y tiene ciertas limitaciones. No se recomienda usar R Commander para la programación sería o el análisis de datos que confíe primordialmente en instrucciones - usar un editor de programación en su lugar. Por ejemplo, para declaraciones de composiciones de R incluidas entre llaves "\{ \}", incluyendo definición de funciones, no serian analizadas ni ejecutadas correctamente, aunque si las líneas después de las primeras que estén identadas. Puede ejecutar declaraciones de composiciones desde la ventana de instrucciones separando los comandos dentro de las llaves por puntos y comas.

**Problemas Conocidos**

Ocasionalmente, bajo Windows, después de teclear algún texto en un cuadro de diálogo (ej. subconjunto de expresiones en el diálogo de subconjunto de conjunto de datos), algunos botones en el diálogo (ej. el botón Aceptar) pueden no tener efecto cuando sean presionados. Pulsando en cualquier sitio, dentro o fuera del cuadro de diálogo, debería restaurarse las funciones de los botones. Por lo que se ha podido comprobar, éste es un problema con Tcl/Tk de Windows.

**Note**

Bajo Windows, el paquete Rcmdr puede también funcionar bajo de Rgui en modo SDI (interfaz de único documento) o bajo rterm.exe; puede ser que experimente problemas ejecutando Rcmdr bajo ESS con NTEmacs o XEmacs.

**Author(s)**

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**See Also**

Plugins
Examples

    options(Rcmdr=list(log.font.size=12, contrasts=c("contr.Sum", "contr.poly")))

Description

The compute dialog is used to compute new variables.

Details

The name of the new variable must be a valid R object name (consisting only of upper and lowercase letters, numerals, and periods, and not starting with a numeral).

Enter an R expression in the box at the right. The expression is evaluated using the active data set. You can double-click in the variable-list box to enter variable names in the expression. The expression must evaluate to a valid variable, which is added to the active data set.

Author(s)

John Fox <jfox@mcmaster.ca>

See Also

    Arithmetic

editDataset

R Commander Dataset Editor

Description

Allows the user to enter a new dataset, modify data values in an existing dataset, add rows or columns to the dataset, or delete rows or columns.

Usage

    editDataset(data, dsname, ...)
    ## S3 method for class 'data.frame'
    editDataset(data, dsname, ...)
    ## S3 method for class 'character'
    editDataset(data, dsname, ...)
    ## S3 method for class 'NULL'
    editDataset(data, dsname, ...)
Arguments

data an R data frame to edit; this argument is optional, and if absent an empty data frame is created, into which the user can enter data.
dsname the quoted name of the data set, into which the edited data frame will be placed in the global environment. If absent and an existing data frame is edited, the modified version will replace the original version; if absent and a new data set is created, it will be given the name "Dataset".

... not used by the data.frame method.

Details

editDataset is a straightforward spreadsheet-like data editor, suitable for editing data frames that are not too large (say smaller than about 10,000 values). It is defined as a generic function with a data.frame method to allow for objects with unique properties that inherit from the data.frame class. The character and NULL methods permit editing an initially empty data set.

- Use the mouse and the arrow keys to navigate the cells of the data table, including the row and column names.
- Columns consisting only of numbers will produce numeric variables in the data frame constructed by editDataset; columns with any non-numeric values will produce factors or (if they contain only the values TRUE and FALSE) logical variables.
- When entering values with embedded blanks, it is permissible but not necessary to enclose the values in quotes (e.g., "some PS" or 'less than HS').
- Clicking in a cell and typing a new value replaces the previous value.
- Row and column names can be modified in the same manner.
- Double-clicking in a cell deletes the previous value and replaces it with NA.
- Enlarge the data set by pressing the Add row or Add column button at the top of the data editor; the new row or column will initially be filled with NAs and will have an auto-generated row or column name. Pressing the Enter or Return key will also add a row; pressing the Tab key will also add a column.
- Right-clicking (or Control-clicking, or under Mac OS X Command-clicking) brings up a context menu, permitting several operations on cells, rows, and columns, including deleting the current row or column.
- Similarly, several actions are available via the Edit menu.
- The key-combinations Control-x, and Control-v, may also be used respectively to cut, copy, and paste cell values. (Under Mac OS X, Command-x, Command-c, and Command-v also work.)
- Pressing the OK button or selecting Exit and save from the File menu exits the data editor and saves the edited data set to the global environment. Pressing the Cancel button or selecting Cancel from the File menu exits the editor discarding the edited data set.

Value

This function does not return a useful value, but has the side effect of modifying or creating a data set in the global environment.
Note
editDataset is limited to editing data frames that are composed only of numeric, factor, and logical columns.

Author(s)
John Fox <jfox@mcmaster.ca>

See Also
edit.data.frame, for the standard R data editor.

Examples
if (interactive()) editDataset()

description
This dialog is used to specify a generalized linear model to be fit by the glm function.

Details
The left model-formula box specifies the response variable to be used in the model; it may be a variable name or an expression evaluating to the response variable, such as working == "Fulltime".

The right model-formula box specifies the right-hand (i.e., predictor) side of the model. See glm for details.

You can type directly in the model formula boxes. Alternatively, double-clicking the left mouse button on a variable in the variable-list transfers it to the left-hand side of the model (if it is empty or selected) or to the right-hand side. Factors are indicated in the variable list; all other variables are numeric. You can also enter operators and parentheses using the buttons above the formula. If you select several variables in the variable-list box, clicking on the +, *, or : button will enter them into the model formula.

Double-click the left mouse button to select a family in the "Family" box and the corresponding permissible link functions appear in the "Link function" box to the right. Initially, the canonical link for the family is selected. See family for details.

Specifying a subset expression allows you to fit the model to a subset of observations in the active data set. For example, assuming that gender is a variable in the active data set, entering gender == "Male" would restrict the model to males.

The weights box allows you to select a variable specifying prior weights from the drop-down list. Weights giving numbers of trials may be used, for example, to fit a binomial GLM; in this case, the response variable should give the proportion of "successes" for each binomial observation. Click in
the weights combo box to see a list of numeric variables in the current data set; type a letter in the box to move the selection cursor to the next variable beginning with that letter.

If the active model is a generalized linear model, and the active data set has not changed, then the initial values of the left-hand-side, right-hand-side, family, link, weights, and subset fields are retained from the active model.

**Author(s)**

John Fox <jfox@mcmaster.ca>

**See Also**

`glm`, `family`, `Comparison`

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### hierarchicalCluster

**Rcmdr Hierarchical Clustering Dialog**

**Description**

This dialog is used to specify a hierarchical cluster analysis solution using `hclust`, with the distance matrix calculated using `dist`.

**Details**

Enter a name for the hierarchical clustering solution to be created if you want to retain more than one solution. The solution name must be a valid R object name (consisting only of upper- and lower-case letters, numerals, and periods, and not starting with a number).

Select the variables to be included in the solution using the variable selection box on the left side of the dialog box. A non-contiguous set of variables can be selected by pressing your control key (ctrl) while selecting variables.

Specifying a subset expression (the field below the variable selection box) allows you to obtain a clustering solution for a subset of observations in the active data set. For example, assuming that `gener` is a variable in the active data set, entering `gender == "Male"` would restrict the solution to males.

Select a clustering method and a distance measure if you are working with raw data. There is often a relationship between the selection of these two items. For example, squared-euclidian distance is appropriate for Ward’s method of cluster analysis. If your data is a distance matrix, then select "No Transformation" as the distance measure.

The "Plot Dendrogram" option results in the dendrogram of the solution being display by using the `plot` function.

**Author(s)**

Dan Putler

**See Also**

`hclust`, `dist`
Description

This dialog is used to specify a linear model to be fit by the `lm` function.

Details

The left model-formula box specifies the response variable to be used in the model; it may be a variable name or an expression evaluating to the response variable, such as `log(income)`.

The right model-formula box specifies the right-hand (i.e., predictor) side of the model. See `lm` for details.

You can type directly in the model formula boxes. Alternatively, double-clicking the left mouse button on a variable in the variable-list transfers it to the left-hand side of the model (if it is empty or selected) or to the right-hand side. You can also enter operators and parentheses using the buttons above the formula. If you select several variables in the variable-list box, clicking on the `+`, `*`, or `:` button will enter them into the model formula.

Specifying a subset expression allows you to fit the model to a subset of observations in the active data set. For example, assuming that `gender` is a variable in the active data set, entering `gender == "Male"` would restrict the model to males.

The weights box allows you to perform weight-least-squares (WLS) regression; select a weight variable from the drop-down list. Click in the weights combo box to see a list of numeric variables in the current data set; type a letter in the box to move the selection cursor to the next variable beginning with that letter.

If the active model is a linear model and the active data set has not changed, then the initial values of the left-hand-side, right-hand-side, weights, and subset fields are retained from the previous model.

Author(s)

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See Also

`lm`, `Comparison`
R Commander Plug-in Packages

Description

Plug-ins are R packages that extend the R Command interface.

Details

An R Commander plug-in is an ordinary R package that (1) provides extensions to the R Commander menus is a file named menus.txt located in the package’s etc directory; (2) provides call-back functions required by these menus; and (3) in an RcmdrModels: field in the package’s DESCRIPTION file, augments the list of model objects recognized by the R Commander. The menus provided by a plug-in package are merged with the standard Commander menus. It is also possible to remove menus and menu items from the standard Commander menu file or from the files of plug-ins installed before the current one.

Plug-in packages given in the R Commander plugins option (see Commander) are automatically loaded when the Commander starts up. Plug-in packages may also be loaded via the Commander Tools -> Load Rcmdr plug-in(s) menu; a restart of the Commander is required to install the new menus. Finally, loading a plug-in package when the Rcmdr is not loaded will load the Rcmdr and activate the plug-in.

An illustrative R Commander plug-in package, RcmdrPlugin.TeachingDemos, is available on CRAN.

A variety of utility functions is available to support R Commander plug-in packages; see Rcmdr.Utilities. For more details, see Fox, Writing R Commander Plug-in Packages at http://socserv.mcmaster.ca/jfox/Books/RCommander/Writing-Rcmdr-Plugins.pdf.

See Also

Commander, Rcmdr.Utilities

Rcmdr-internal

tcltk Functions Re-exported by the Rcmdr Package.

Description

For technical reasons involving Rcmdr plug-in packages, the Rcmdr package re-exports a number of functions from the tcltk package that are used by Rcmdr utilities.

It also re-exports the showdata function from the relimp package, which is uses internally to display data sets.

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Rcmdr.Utilities

See Also
tcltk

Description

These functions support writing additions to the Rcmdr package, preferably by writing an Rcmdr plug-in package. Although it is not recommended, additional R code can also be placed in files with file type .R in the etc subdirectory of the Rcmdr package. In this case, you can add menus, submenus, and menu items by editing the file Rcmdr-menus.txt in the same directory.

Usage

activateMenus()
activeDataSet(dsname, flushModel=TRUE, flushDialogMemory=TRUE)
ActiveDataSet(name)
activeDataSetP()
activeModel(model)
ActiveModel(name)
activeModelP()
anovaP()
beginRmdBlock()
beginRnwBlock()
checkActiveDataSet()
checkActiveModel()
checkBoxes(window=top, frame=stop("frame not supplied"),
  boxes=stop("boxes not supplied"),
  initialValues=NULL, labels=stop("labels not supplied"),
  title=NULL, ttk=FALSE, columns=1) # macro
checkClass(object, class, message=NULL) # macro
checkFactors(n=1)
checkMethod(generic, object, message=NULL, default=FALSE, strict=FALSE,
  reportError=TRUE) # macro
checkNumeric(n=1)
checkReplace(name, type=gettextRcmdr("Variable"))
checkTwoLevelFactors(n=1)
checkVariables(n=1)
closeCommander(ask=TRUE, ask.save=ask)
closeDialog(window, release=TRUE) # macro
Coef(object, ...)
CommanderWindow()
dataSetsP(n=1)
defmacro(..., expr)
dialogSuffix(window=top, onOK=onOK, onCancel=onCancel, rows, columns,
focus=top, bindReturn=TRUE,
    preventGrabFocus=FALSE, preventDoubleClick=FALSE, preventCrisp,
    use.tabs=FALSE, notebook=notebook, tabs=c("dataTab", "optionsTab"),
    tab.names=c("Data", "Options"), grid.buttons=FALSE, resizable=FALSE,
    force.wait=FALSE) # macro
doItAndPrint(command, log=TRUE, rmd=log)
EffectP()
edRmdBlock()
edRnwBlock()
enterMarkdown(command)
enterKnitr(command)
errorCondition(window=top, recall=NULL, message, model=FALSE) # macro
exists.method(generic, object, default=TRUE, strict=FALSE)
Factors(names)
factorsP(n=1)
formulaFields(model, hasLhs=TRUE, glm=FALSE)
flushDialogMemory(what)
gassign(x, value)
getDialog(dialog, defaults=NULL)
## S3 method for class 'combobox'
getFrame(object)
## S3 method for class 'listbox'
getFrame(object)
## S3 method for class 'combobox'
getSelection(object)
## S3 method for class 'listbox'
getSelection(object)
getRcmdr(x, mode="any", fail=TRUE)
gettextRcmdr(...)
glmP()
GrabFocus(value)
groupsBox(recall=NULL, label=gettextRcmdr("Plot by:"),
    initialLabel=gettextRcmdr("Plot by groups"),
    errorText=gettextRcmdr("There are no factors in the active data set."),
    variables=Factors(),
    plotLinesByGroup=FALSE, positionLegend=FALSE,
    plotLinesByGroupsText=gettextRcmdr("Plot lines by group"),
    initialGroup=NULL, initialLinesByGroup=1, window=top) # macro
groupsLabel(frame=top, groupsBox=groupsBox, columnspan=1,
    initialText=NULL, ratio=FALSE) # macro
hclustSolutionsP()
initializeDialog(window=top, title="", offset=10, preventCrisp,
    use.tabs=FALSE, notebook=notebook,
    tabs=c("dataTab", "optionsTab"),
    suppress.window.resize.buttons=TRUE) # macro
is.valid.name(x)
is.valid.number(string)
is.SciViews()
justDoIt(command)
kniTrP()
Library(package, pos=length(search()), rmd=TRUE)
listAllModels(envir=.GlobalEnv, ...)
listAOVModels(envir=.GlobalEnv, ...)
listDataSets(envir=.GlobalEnv, ...)
listFactors(dataSet=ActiveDataSets)
listGeneralizedLinearModels(envir=.GlobalEnv, ...)
listLinearModels(envir=.GlobalEnv, ...)
listMultinomialLogitModels(envir=.GlobalEnv, ...)
listNumeric(dataSet=ActiveDataSets)
listPlugins(loaded=FALSE)
listProportionalOddsModels(envir=.GlobalEnv, ...)
listTwoLevelFactors(dataSet=ActiveDataSets)
listVariables(dataSet=ActiveDataSets)
lmP()
logger(command, rmd=TRUE)
logLikP()
LogWindow()
MacOSXP(release)
manualTranslationP()
MarkdownP()
mavericksP()
Message(message, type=c("note", "error", "warning"))
MessagesWindow()
modelCapability(capability)
modelFormula(frame=top, hasLhs=TRUE, rhsExtras=NULL,
            formulaLabel=gettextRcmdr("Model Formula"), showBar=FALSE) # macro
modelsP(n=1)
multinomP()
Numeric(names)
numericP(n=1)
OKCancelHelp(window=top, helpSubject=NULL, model=FALSE,
             reset=NULL, apply=NULL, helpPackage=NULL) # macro
OutputWindow()
packageAvailable(name)
polrP()
popCommand(keep=FALSE)
popOutput(keep=FALSE)
putDialog(dialog, values=NULL, resettable=TRUE)
putRcmdr(x, value)
radioButtons(window=top, name=stop("name not supplied"),
            buttons=stop("buttons not supplied"),
            values=NULL, initialValue=.values[1],
            labels=stop("labels not supplied"),
            title="", title.color=getRcmdr("title.color"),
            right.buttons=FALSE, command=function(){}), columns=1) # macro
RappP()
RcmdrUtilities

RcmdrEditor(buffer, title="R Commander Editor", ok,
    help=NULL, file.menu=NULL, edit.menu=NULL, context.menu=NULL,
    toolbar.buttons=NULL)
Rcmdr TclSet(name, value)
Rcmdr Tcl Set(message, icon=c("info", "question", "warning",
    "error"), type=c("okcancel", "yesno", "ok"), default, title="")
removeLastRmdBlock()
removeLastRnwBlock()
removeNullRmdBlocks()
removeNullRnwBlocks()
removeStrayRmdBlocks()
removeStrayRnwBlocks()
REexcelSupported()
rglLoaded()
RmdWindow()
RnwWindow()
setBusyCursor()
setIdleCursor()
sortVarNames(x)
subOKCancelHelp(window=subdialog, helpSubject=NULL)  # macro
subsetBox(window = top, subset.expression = NULL, model = FALSE)  # macro
suppressMarkdown(command)
tclvalue(x)
titleLabel(...)  
tkfocus(...)  
tkspinbox(parent, ...)
trim.blanks(text)
Two Level Factors(names)
twoLevelFactorsP(n=1)
UpdateModelNumber(increment=1)
variableComboBox(parentWindow, variableList=Variables(),
    export="FALSE", state="readonly",
    initialSelection=gettextRcmdr("<no variable selected>"),
    title="")
variableListBox(parentWindow, variableList=Variables(), bg="white",
    selectmode="single", export="FALSE", initialSelection=NULL,
    listHeight=getRcmdr("variable.list.height"), title)
Variables(names)
varPosn(variables,
    type=c("all", "factor", "numeric", "nonfactor", "twoLevelFactor"),
    vars=NULL)
WindowsP()
X11P()

# the following function is exported for technical reasons,
# but are not meant to be called directly
commanderPosition()
Arguments

ask
- ask for confirmation.
ask.save
- ask whether to save contents of script and output windows.
apply
- if non-null (the default is NULL), an Apply button is included in the dialog’s button bar. This argument should be set to the quoted name of the function that initiates the dialog; when the button is pressed, the onOK function for the dialog is executed, and then the function named in apply is (re)called.
bg
- background color.
bindReturn
- if TRUE, the Return key is bound to the onOK function in the dialog.
boxes
- vector of quoted names for check boxes, used to generate each box and its associated variable.
buffer
- a text string, typically representing the contents of a text widget, such as an R Markdown or knitr document.
buttons
- vector of quoted names for buttons in a set of related radio buttons.
capability
- character string giving the name of a column in the R Commander model-capabilities table, including the name of a column added by a plug-in; see model-capabilities.txt in the Rcmdr sources for the standard table; e.g., "sum" indicates the availability of an applicable summary() method for the current model.
class
- quoted name of class.
columns
- number of columns into which to arrange check boxes or radio buttons; boxes and buttons are filled by rows; the default is 1 and the allowed values are 1, 2, 3, and 4.
columnspan
- number of dialog-box columns to be spanned by frame.
command
- a character string that evaluates to an R command or (in the case of radioButton) a function to be called when a button is pressed.
context.menu
- NULL or a list containing one or more two-element lists: the first element, label, supplies the text label for a menu item in the RcmdrEditor right-click context menu; the second element, command, is a call-back function to be evaluated when the menu item is selected. If NULL (the default), no item will be added to the file menu.
dataSet, dsname
- the quoted name of a data frame in memory.
default
- default button: if not specified, "ok" for "okcancel", "yes" for "yesno", and "ok" for "ok"; or look for a default method; for putDialog, a list of defaults for the dialog box if there are no stored previous values.
defaults
- a list of named default values for options in a dialog if no previous selections are stored.
dialog
- the quoted name of a dialog box under which previous selections are stored.
edit.menu
- NULL or a list containing one or more two-element lists: the first element, label, supplies the text label for a menu item in the RcmdrEditor Edit menu; the second element, command, is a call-back function to be evaluated when the menu item is selected. If NULL (the default), no item will be added to the file menu.
envir the environment to be searched; should generally be left at the default.
errorText error message to print if a suitable factor isn’t available.
export export selection?
expr expression constituting the body of the macro; typically a compound expression.
fail if TRUE, the default, getRcmdr will generate an error if the object sought doesn’t exist; if FALSE and the object doesn’t exist, NULL is returned.
file.menu NULL or a list containing one or more two-element lists: the first element, label, supplies the text label for a menu item in the RcmdrEditor File menu; the second element, command, is a call-back function to be evaluated when the menu item is selected. If NULL (the default), no item will be added to the file menu.
flushDialogMemory remove saved values of dialog options so that getDialog returns NULL for all dialogs.
flushModel set (or reset) the active model to NULL? Should normally be TRUE when the active data set is changed; an exception is when variables are simply added to, deleted from, or modified in the data set set.
focus Tk window to get the focus.
force.wait call tkwait.window so that processing is suspended until the dialog is closed; overrides the Rcmdr tkwait.dialog option (see Commander) if the latter is set to FALSE (its default). The force.wait argument should be set to TRUE for subdialogs.
formulaLabel text label printed above the formula widget.
frame frame or quoted name for frame depending upon the function.
generic quoted name of generic function.
glm TRUE if the model is a glm object, FALSE otherwise.
grid.buttons insert call to tkgrid for the buttons frame (default FALSE); use TRUE for tabbed dialogs and optionally for other dialogs.
groupsBox listbox object for selecting groups variable.
initialText initial text to display in the groups label; if NULL, "<No groups selected>" will be displayed.
hasLhs does the model formula have a left-hand side?
help a two element list: the first element, label, supplies the text label for a menu item in the RcmdrEditor Help menu; the second element, command, is a call-back function to be evaluated when the menu item is selected. If NULL (the default), no item will be added to the editor Help menu.
helpSubject the quoted name of a help subject, to be called as help(helpSubject) when the dialog Help button is pressed.
helpPackage the quoted name of the package in which to look for help; the default, NULL, produces a search in all loaded packages — see help.
icon Message-box icon.
increment increment to model number; -1 to set back after error.
initialGroup quoted name of variable to define groups, set as initial selection in Groups variable list; NULL (the default) for no initial selection.

initialLinesByGroup
if 1, the lines-by-groups check box is initially checked; 0 to uncheck.

initialLabel label for groups button before a selection is made.

initialSelection index of item initially selected, 0-base indexing.

initialValue for a set of related radio buttons.

initialValues for a set of related check boxes.

keep if TRUE, keep (rather than pop) last output or command in the stack; the default is FALSE.

label label prefix for groups button after a selection is made.

labels a vector of character strings to label a set of radio buttons or check boxes.

listHeight Maximum number of elements displayed simultaneously in list box.

loaded if TRUE, plug-in packages that are loaded are included in the vector of names returned.

log echo command to the script window, as well as executing it and printing its output.

message error (or other) message.

mode mode of object to retrieve.

model the name of a model, as a character string, or a model object, or TRUE or FALSE, depending upon the function.

n number of items to check for.

name quoted name.

names optional names to be stored.

notebook notebook windows for a tabbed dialog (default notebook).

object an object (depends on context).

offset in pixels, from top-left of Commander window.

ok a function called when the OK button is pressed in a RcmdrEditor window that saves the editor buffer to the appropriate Tcl variable.

onOK function to execute when the OK button is pressed.

onCancel function to execute when the Cancel button or Esc key is pressed.

package quoted name of package to load.

parent parent Tk window.

plotLinesByGroup include a check box for plotting lines by group?

plotLinesByGroupsText the label for the plot-lines-by-group check box.

pos position on search path at which to load package; default is just before the end of the path.
positionLegend include a check box for a legend?
preventGrabFocus prevent the dialog box from grabbing the focus.
preventDoubleClick prevent double-clicking from pressing the OK button, even when the double.click option is set; necessary for statistical modelling dialogs, which use double-clicking to build the model formula.
preventCrisp this argument is ignored, and is present only for backwards compatibility.
recall function to call after error — usually the function that initiates the dialog.
release release the focus if the grab.focus option has been set. In MacOSX, the minimum release (version) required.
ratio If FALSE, the default, the test will be expressed as a test for a difference (e.g., a difference in means); if TRUE, as a test for a ratio (e.g., a ratio of variances).
reportError if TRUE, report an error message.
reset quoted name of dialog function, to be invoked with all defaults by Reset button.
resettable should dialog state be reset when the data set changes? The default is code-TRUE.
resizable should the dialog be resizable by the user? The default is FALSE.
rhsExtras show controls for splines and polynomials for a model formula; for backwards compatibility, defaults to TRUE for a two-sided formula and FALSE for a one-sided formula.
right.buttons radio button placed to right of button-labels; defaults to FALSE.
rmd enter the command in the R Markdown tab.
rows numbers of rows of widgets in the dialog box; this is actually no longer used, but is still present for backwards compatibility. The columns argument is similarly ignored, except for radio buttons and check boxes.
selectmode "single" or "multiple".
showBar include a bar (|) button in the model-formula widget (default is FALSE).
state state of the combobox widget; default "readonly" means user can’t type in the box; set to "normal" to permit typing.
strict if TRUE, only use first element of class vector.
string a character string, or vector of strings, to be tested whether it can be coerced to a number or numbers; returns either TRUE or FALSE.
subset.expression a quoted expression to subset the data set.
suppress.window.resize.buttons if TRUE, the default, the window maximize/minimize buttons will not be displayed.
tab.names text to print as tab labels (default c("Data","Options")).
tabs quoted names of tabs for a tabbed dialog (default c("dataTab","optionsTab")).
text a text string.
title Window or dialog-box-element title.
title.color color for title above radio buttons; defaults to "blue".
toolbar.buttons
   NULL or a list containing one or more three-element lists: the first element, 
   label, supplies the text label for a button in the RcmdrEditor toolbar; the sec- 
   ond element, command, is a call-back function to be evaluated when the button 
   is pressed; the third element is the name of a tk image to display as an icon in 
   the button. If NULL (the default), no buttons will be added to the toolbar.

ttk use ttk themed widget for check boxes.
type quoted type of object to check; used to generate check-replace dialog box; or 
   type of message to print in Message window. For varPosn, type of variable list.
use.tabs (default FALSE) construct a tabbed dialog.
value an object to be stored or assigned.
values vector of quoted values associated with radio buttons or check boxes; for putDialog, 
   a list of current selections to be stored in support of dialog memory.
variableList a vector of variable names.
variables a vector of one or more variable names.
vars a vector of one or more variable names; if given type argument is ignored.
what optional character vector of one or more dialog names for which the memory is 
   to be flushed; if not specified, all dialog memory will be flushed.
window, parentWindow
   a Tk window.
x an R object name, as a character string, or a tcl variable or object, or a vector of 
   variable names to be sorted.
...
   For gettextRcmdr, text string or vector of text strings to translate; for titleLabel, 
   arguments to be passed to labelRcmdr and from there to ttklabel; for defmacro, 
   arguments for the macro; otherwise you should disregard this argument.

Details

There are several groups of functions exported by the Rcmdr package and documented briefly here. 
To see how these functions work, it is simplest to examine the dialog-generating functions in the 
Rcmdr package. Also see the RcmdrPlugin.survival package for examples.

Executing and logging commands:

The functions doItAndPrint, justDoIt, and logger control the execution, logging, and printing of 
commands generated by menus and dialogs. logger(command) adds command to the log/script win- 
dow and to the output window. justDoIt(command) causes command to be executed. doItAndPrint(command) 
does both of these operations, and also prints the output produced by the command. The R Com- 
mander maintains a list of output objects, by default including the last 10 outputs. popOutput() 
“pops” (i.e., returns and removes) the first entry of the output stack. Note that, as a stack, the queue 
is LIFO (“last in, first out”). Use popOutput(keep=TRUE) to access the last output but keep it in 
the stack. There is also a stack of commands, which is accessed similarly by popCommand(). Occasion- 
ally, it’s necessary to assign an object directly in the global environment, and this can be done 
with the gassign function.
Normally commands also generate an R Markdown block. `suppressMarkdown` takes a command in character-string form and adds an attribute to it that will cause the command *not* to be entered in the R Markdown tab. This is useful when a command, such as `identify`, requires direct user interaction and won’t generate useful Markdown. `enterMarkdown` can be used to enter command blocks directly in the R Markdown tab; this should rarely be required. The functions `beginRmdBlock`, `endRmdBlock`, `removeNullRmdBlocks`, `removeLastRmdBlock`, and `removeStrayRmdBlocks` should normally not be called directly. The functions `enterKnitr`, `beginRnwBlock`, `endRnwBlock`, `removeNullRnwBlocks`, `removeLastRnwBlock`, and `removeStrayRnwBlocks` perform similar functions for Knitr documents.

**Checking for errors:**

The function `is.valid.name` checks whether a character string specifies a valid name for an R object. The function `is.valid.number` checks whether a character string (or vector) can be coerced to a number (or numbers). The functions `checkActiveDataSet`, `checkActiveModel`, `checkFactors`, `checkNumeric`, `checkTwoLevelFactors`, and `checkVariables` check for the existence of objects and write an error message to the log if they are absent (or insufficiently numerous, in the case of different kinds of variables). The function `checkReplace` opens a dialog to query whether an existing object should be replaced. The function `checkMethod`, checks whether a method exists for a particular generic that is appropriate for a particular object. The function `checkClass` checks whether an object is of a specific class. Both of these functions write error messages to the log if the condition fails. The function `errorCondition` reports an error to the user and (optionally) re-starts a dialog.

**Information:**

Several functions return vectors of object names: `listAllModels`, `listAOVModels`, `listDataSets`, `listGeneralizedLinearModels`, `listFactors`, `listLinearModels`, `listMultinomialLogitModels`, `listNumeric`, `listProportionalOddsModels`, `listTwoLevelFactors`, `listVariables`. The functions `activeDataSet` and `activeModel` respectively report or set the active data set and model. The function `packageAvailable` reports whether the named package is available to be loaded (or has possibly already been loaded). The function `exists.method` checks whether a method exists for a particular generic that is appropriate for a particular object, and returns `TRUE` or `FALSE`. The function `is.SciViews` always returns `FALSE` since the SciViews GUI is no longer supported.

The function `modelCapability()` returns `TRUE` if there is an active statistical model and if it has the specified capability. For example, `modelCapability("sum")` returns `TRUE` if the model-capabilities table indicates that there’s an applicable `summary()` method for the active model. Otherwise, `FALSE` is returned. If the specified capability doesn’t exist, a warning is printed.

**Building dialog boxes:**

Several functions simplify the process of constructing Tk dialogs: initializing a dialog box, `initializeDialog`, and completing the definition of a dialog box, `dialogSuffix`; a set of check boxes, `checkBoxes`; a set of radio buttons, `radioButtons`; a list box with associated scrollbars and state variable, `variableListBox` (and associated methods for the generic functions `getFrame` and `getSelection`); a drop-down "combo" box, `variablecomboBox` (with `getFrame` and `getSelection` methods); a button and subdialog for selecting a "grouping" variable, `groupsBox`; displaying the currently defined groups in a dialog, `groupsLabel`; a dialog-box structure for entering a model formula, `modelFormula`; a text box for entering a subsetting expression, `subsetBox`; `OK`, `Cancel`, and `Help` buttons for dialogs, `OKCancelHelp`, and subdialogs, `subOKCancelHelp`. The functions `putDialog`, `getDialog`, and `varPosn` support dialog-box memory—i.e., retaining selections across invocations.
of a dialog. The tkspinbox function is omitted from the tcltk package and may be used to create a spinbox widget. The titleLabel function may be used to format a title label to use the standard title label font and color.

"Themed" Tk widgets:
Tk 8.5 introduced so-called “themed” widgets, which look better than the traditional Tk widgets. Several functions, contributed by Brian Ripley, are written to access the new widgets by switching automatically between the new and old widget sets depending upon the availability of the former: buttonRcmdr, to access either ttkbutton or tkbutton; labelRcmdr, to access either ttklabel or tklabel; ttkentry, to access either ttkentry or tkentry; ttkframe, to access either ttkframe or tkframe; ttkradiobutton, to access either ttkradiobutton or tkradiobutton; and ttkscrollbar, to access either ttkscrollbar or tkscrollbar. Note that the last four functions mask functions of the same names in the tcltk package.

'Predicate' functions:
A number of functions of the form nameP are ‘predicate’ functions, which return TRUE or FALSE depending upon whether some condition obtains. For example, lmP() returns TRUE if there is an active model that is a linear model; and factorsP returns TRUE if there are at least two factors in the active data set. WindowsP(), MacOSXP(), and X11P() return TRUE if the R Commander is running under Windows, Mac OS X, or X-Windows, consecutively.

Translating text:
The gettextRcmdr function simply passes its argument(s) to gettext, adding the argument domain="R-Rcmdr"
It is not meant to be used in plug-in packages.

Miscellaneous:
The function trim.blanks removes spaces from the beginning and end of a character string. The function installPlugin installs an Rcmdr plug-in from a ZIP file or directory; this function may be used to create self-installing plug-ins in the form of packages. The function nob returns the number of observations on which a statistical model is based. The function formulaFields returns information about the left-hand side, right-hand side, data, subset, and (for GLMs) family and link, of a model object. The function sortVarNames sorts variable names, including those containing numerals, into a more "natural" order than does the standard sort function. The function Library may be used to load packages; it checks whether a package is already loaded, and if not by default puts it in position 4 on the search path. The function Coef, with several methods, returns the coefficients of a model as a vector; the default method just calls coef.

The function RExcelSupported is used for the RExcel interface.
Some of these functions, marked # macro under Usage, are "macro-like" in their behaviour, in that they execute in the environment from which they are called. These were defined with an adaptation (used with permission) of Thomas Lumley's defmacro function, described in Lumley (2001), and are used in the R Commander to deal with scoping issues related to Tcl/Tk.

The tkfocus function is exported for historical reasons.

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References
RcmdrPager  
*Pager for Text Files*

**Description**

This is a slightly modified version of the tkpager, changed to use the Rcmdr monospaced font and a white background.

**Usage**

RcmdrPager(file, header, title, delete.file)

**Arguments**

- `file`: character vector of file(s) to be displayed.
- `header`: for the beginning of each file.
- `title`: for window
- `delete.file`: delete file(s) on close.

**See Also**

tkpager

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RecodeDialog  
*Rcmdr Recode Dialog*

**Description**

The recode dialog is normally used to recode numeric variables and factors into factors, for example by combining values of numeric variables or levels of factors. It may also be used to produce new numeric variables. The Rcmdr recode dialog is based on the `Recode` function in the car package.

**Details**

The name of each new variable must be a valid R object name (consisting only of upper and lower-case letters, numerals, and periods, and not starting with a numeral).

Enter recode directives in the box near the bottom of the dialog. Directives are normally entered one per line, but may also be separated by semicolons. Each directive is of the form `input = output` (see the examples below). If an input value satisfies more than one specification, then the first (from top to bottom, and left to right) applies. If no specification is satisfied, then the input value is carried over to the result. NA is allowed on input and output. Factor levels are enclosed in double-quotes on both input and output.

Several recode specifications are supported:
a single value  For example, "missing" = NA.
several values separated by commas  For example, 7,8,9 = "high".
a range of values indicated by a colon  For example, 7:9 = "high". The special values 10 and hi may appear in a range. For example, 10:10 = 1. Note that these values are unquoted.
the special value else  everything that does not fit a previous specification. For example, else = NA. Note that else matches all otherwise unspecified values on input, including NA.

If all of the output values are numeric, and the "Make new variable a factor" check box is unchecked, then a numeric result is returned.
If several variables are selected for recoding, then each is recoded using the same recode directives. In this case, the name entered in the box labelled "New variable name or prefix for multiple recodes" will be prefixed to the name of each variable being recoded. Setting an empty prefix (i.e., "") will cause the recoded variables to replace the original variables.

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See Also

Recode

Description

This dialog creates a `.Rprofile` file, by default in the current directory, adding to it the current R Commander options, set, e.g., in the Options dialog. If R is subsequently restarted in this directory, and the Rcmdr package loaded, then the current R Commander options will be applied. The current directory will typically, though not necessarily, be your home directory — for example, for Windows users, your Documents directory.

If a `.Rprofile` file already exists in the current directory, then the R Commander options are added to it at the end of the file, after removing R Commander options previously generated by an earlier invocation of this dialog.

The contents of the `.Rprofile` file may be edited before you save the file. If you want to start the R Commander automatically when R starts, uncomment (remove the #s from) the four lines

```
# local({
#   old <-getOption('defaultPackages')
#   options(defaultPackages = c(old, 'Rcmdr'))
# })
```

See Commander for a description of the various R Commander options.
Usage

saveOptions() # typically through the R Commander Tools menu

Author(s)

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See Also

Commander, Startup

Description

This dialog sets up a call to the `scatter3d` function to draw a three-dimensional scatterplot, and optionally to `Identify3d` to label points interactively with the mouse.

Details

The explanatory variables provide the "horizontal" and "out-of-screen" axes of the scatterplot, the response variable provides the "vertical" axis.

Data points are represented as spheres or points, depending upon the number of observations.

Several regression surfaces can be plotted: a linear least-squares surface; a full quadratic least-squares surface with squared and cross-product terms; a "smooth" regression surface — either a smoothing spline, if no degrees of freedom are specified (in which case the `gam` function selects the df by generalized cross validation), or a fixed-df regression spline; an additive-regression surface (also fit by `gam`), with either smoothing spline or regression spline components (again selected according to the specification of degrees of freedom). If only one surface is fit, then residuals are plotted as red (negative) and green (positive) lines from the surface to the points.

You can specify a factor defining groups by pressing the `Plot by groups` button. A separate surface or set of surfaces is plotted for each level of the groups factor. These surfaces can be constrained to be parallel.

The completed plot can be manipulated with the mouse: Click, hold, drag the left mouse button to rotate the display; click, hold, and drag the right button (or centre button on a three-button mouse) to zoom in and out.

If the box labelled `Identify observations with mouse` is checked, you may use the mouse to identify points interactively: Press the right mouse button (or the centre button on a three-button mouse), drag a rectangle around the points to be identified, and release the button. Repeat this procedure for each point or set of "nearby" points to be identified. To exit from point-identification mode, right-click (or centre-click) in an empty region of the plot.

Points may also be identified subsequently by selecting `Identify observations with mouse` from the R Commander 3D graph menu: As above, click and drag the left mouse button to rotate the display, and click and drag the right (or centre) button to identify points.
The R Commander script editor is meant to edit scripts in text widgets, such as the R Commander R Markdown and knitr document tabs.

Details

Saving the document, either via the File menu or pressing the OK button closes the editor and modifies the content of the corresponding R Markdown or knitr tab. Closing the editor without saving, by selecting Cancel from the file menu, pressing the Cancel button or destroying the window discards changes to the document. You may also save your edits to the R Markdown or knitr tab without closing the editor. Compiling the document into a report also saves the current edits.

The editor is a “non-modal” dialog, and so may remain open when you work.

Author(s)

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See Also

using R Markdown; using knitr.
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