

# ESS [Emacs Speaks Statistics] Reference Card for S and R

updated for ESS 12.03

March 6, 2012

## Interacting with the S process

For use in a process buffer ‘\*R\*’ (*inferior-ess-mode*):

⟨RET⟩	Send a command
⟨TAB⟩	Complete filename or S object name
C-c C-c	Break
C-g	interrupt Emacs’ waiting for S
C-a / C-e	Beginning / End of command
C-c C-u	Delete this command
C-c C-w	Delete last word

## Command history (part of Menu ‘In/Out’)

M-p	Previous command
M-n	Next command
C-c C-l	List command history (& choose!)
C-c M-r	Previous similar command
C-c M-s	Next similar command
C-c⟨RET⟩	Copy current input
C-c C-r	Top of last output
C-c C-o	Delete last output

## Hot keys

C-c C-v	Help for S object
C-c C-l	Load source file (+ error check!)
C-c C-x	List objects
C-c C-s	Display search list
C-c C-a	Attach a directory
C-c C-d	Edit an object (dump to file)

## Others

C-c ‘	Jump to error after C-c C-l
C-c C-q	Quit from S
C-c C-z	Kill the S process

## Inside S Transcripts (I + O)

Inside ESS transcript buffers, (\*.Rout files):

⟨RET⟩	Send and Move
C-c C-n	Next prompt
C-c C-p	Previous prompt
C-c C-w	Clean Region (→ input only)

## Sweave

M-n s	Sweave the file
M-n l	Run latex
M-n p	Postscript file
M-n P	PDF file

## Editing S source

For use in *ess-mode* edit buffers, (\*.R files):

⟨TAB⟩	Indent this line, or complete filename/object
M-C-a	Beginning of function
M-C-e	End of function
M-C-q	Indent this expression (use at ‘{’)
M-C-h	Mark this function
C-u C-u C-y	Yank striped commands

## Evaluation commands (Prefix C-u: *in/visibly*)

C-c C-l	Load this buffer – detect errors !
C-c C-n	Step through code – line by line
C-c C-e	Evaluate an expression
C-c C-j	Evaluate this line
C-c M-j	Evaluate this line and go
M-C-x	Evaluate this function
C-c C-f	Evaluate this function
C-c M-f	Evaluate this function and go
C-c C-p	Evaluate this paragraph and step
C-c C-c	Evaluate this para. or function <i>ℰ</i> step
C-c C-r	Evaluate this region
C-c M-r	Evaluate this region and go
C-c C-b	Evaluate this buffer
C-c M-b	Evaluate this buffer and go

## Others

C-c C-v	Help for S object
C-c C-d	“dump” – Edit another object
C-c C-z	Return to S process (at prompt)

## At Sfs, or activated by M-x *ess-add-MM-keys*

C-c f	insert function() definition outline
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## Reading help files

For use in ‘\*help[R] (...)’ help buffers:

SPC	Next page
DEL	Previous page
b	Previous page (‘back’)
/	Search forwards
n	Next section
p	Previous section
s	Skip (‘jump’) to a named section
s e	e.g., skip to “Examples:”
l	Evaluate one ‘Example’ line
r	Evaluate current region
q	‘Quit window
x	Kill this buffer and return (‘exit)
h	Help on another object
?	Help for this mode
i	Display index
v	Display vignettes
w	Display current page in browser

## ESS traceback

Activate and set the prefix key (a suggestion):

```
(setq ess-use-tracebug t)
(setq ess-tracebug-prefix "\M-t")
```

Basic commands (prefix not included):

?	Show key help
b	Set BP (repeat to cycle)
k	Kill BP
C-n, C-p	Goto next/previous BP
'	Show R Traceback
e	Toggle error action (cycle)
d, D	Flag/unflag for debugging
w	Watch window
c, n, p, q	Debugging commands
0..9, q	Recover commands

Other commands:

C-x ', M-g n	'next-error' (emacs)
M-g p	'previous-error'(emacs)

## ESS developer

Evaluate your code into the package:

C-c d t	Toggle developer on/off
C-c d a	Add package to the dev list
C-c d r	Remove package from dev list