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

updated for ESS 12.03

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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	**L**oad source file (+ error check!)
C-c C-x	List objects
C-c C-s	Display search list
C-c C-a	**A**ttach a directory
C-c C-d	Edit an object (**d**ump 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 *& 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

Reading help files

For use in '*help[R](...)*' help buffers:

SPC	Next page
DEL	Previous page
b	Previous page ('**b**ack')
/	Search forwards
n	**N**ext section
p	**P**revious section
s	**S**kip ('jump') to a named section
s e	e.g., **s**kip to "Examples:"
l	Evaluate one 'Example' **l**ine
r	Evaluate current **r**egion
h	**H**elp on another object
q	'**Q**uit window
x	Kill this buffer and return ('e**x**it)
?	Help for this mode
i	Display **i**ndex
v	Display **v**ignettes
w	Display current page in bro**w**ser

ESS tracebug

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