ESS   [**E**macs **S**peaks **S**tatistics]
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 ($\mapsto$ 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
`q`	'**Q**uit window
`x`	Kill this buffer and return ('e**x**it)
`h`	**H**elp on another object
`?`	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