

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

updated for ESS 12.09

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## Interacting with the S process

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

⟨RET⟩	Send a command
C-c	Copy old input
⟨RET⟩	
⟨TAB⟩	Complete filename or S object name. Also bound to M-⟨TAB⟩ (aka M-C-i).
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
C-c C-r	Top of last output
C-c C-o	Delete last output

### 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

### Others

C-c C-v	Help for object
C-c h	Handy commands
C-c C-l	Load source file (+ error check!)
C-c C-x	List objects
C-c C-s	Display <b>search</b> list
C-c C-a	Attach a directory
C-c C-d	Edit an object ( <b>dump</b> to file)
C-c ‘	Jump to error after C-c C-l
In tracebug works for all errors (aka C-x ‘)	
C-c C-q	Quit from S

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

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

M-C-x	Evaluate region or function or para
C-c C-c	Evaluate region or para. or function & <i>step</i>
C-⟨RET⟩	Evaluate region or line & <i>step</i>
C-c C-l	Load this buffer
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
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-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 object
C-c h	Handy commands
C-c C-d	“ <b>dump</b> ” – Edit another object
C-c C-z	Return to process (at prompt)

## Reading help files

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

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

## ESS traceback

Activate

```
(setq ess-use-tracebug t)
```

Basic commands (default prefix C-c d):

?	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)

Use a custom prefix key (a suggestion):

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

## 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