

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

updated for ESS 5.3.x

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1. NOTA BENE: S is the *language*, R is one *dialect*!
2. This is a list of the more widely used **key - shortcuts**. Many more are available, and most are accessible from the Emacs **Menus** such as iESS, ESS, etc.

## Interacting with the S process

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

⟨RET⟩	Send a command
⟨TAB⟩	Complete 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 <b>search</b> list
C-c C-a	<b>A</b> ttach a directory
C-c C-d	Edit an object ( <b>d</b> 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)

## Editing S source

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

⟨TAB⟩	Indent this line
C-c⟨TAB⟩	Complete S object name
M-⟨TAB⟩	Complete file- / path- name
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

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

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

### Others

C-c C-v	Help for S object
C-c C-d	“ <b>d</b> ump” – 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 “ <b>Examples:</b> ”
l	<u>Evaluate one ‘Example’ line</u>
r	<u>Evaluate current region</u>
h	<b>H</b> elp on another object
?	Help for this mode
q	Return to S process (‘quit’)
x	Kill this buffer and return (‘exit’)