

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

updated for ESS 12.09-1

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## Interacting with the process

For use in a process buffers (inferior-ess-mode):

⟨RET⟩	Send a command
C-c ⟨RET⟩	Copy old input
⟨TAB⟩	Complete object or file name. Also bound to M-⟨TAB⟩, 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 M-l	Load source file
C-c C-x	List objects
C-c C-s	Display <b>search</b> list
C-c C-q	Quit from S
C-c C-z	Switch to most recent script buffer

## Inside ESS Transcripts (I + O)

Inside (\*.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 source files

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's source file
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 C-z	Switch to process buffer

## General Commands

**ess-doc-map** (C-c C-d):

C-a, a	<b>A</b> propos
C-d, d	<b>D</b> oc on object
C-e, e	<b>D</b> escribe object at point (C-e or e to cycle)
C-i, i	<b>I</b> ndex
C-v, v	<b>V</b> ignettes
C-o, o	<b>D</b> emos
C-w, w	<b>W</b> eb search (dialect dependent)

**ess-extra-map** (C-c C-e):

C-d, d	<b>D</b> ump object into edit buffer
C-i, i	<b>I</b> nstall package (in R) or library
C-l, l	<b>L</b> oad package (in R) or library
C-t, t	<b>B</b> uild tags for directory

## Reading help files

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

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

## ESS traceback

Activate from the menu or

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

Commands in `ess-dev-map` (**C-c C-t**):

T	Toggle ess-tracebug
?	Show key help
C-b, b	Set BP (repeat to cycle)
C-k, k	Kill BP
C-n, C-p	Goto next/previous BP
'	Show R Traceback
C-e, e	Toggle error action (cycle)
C-d, d	Flag for debugging
D	Un-flag debugged objects
C-w, w	Watch window
c, n, p, q	Debugging commands
0..9, q	Recover commands

### Others

C-x ', M-g n	<code>'next-error'</code> (emacs)
M-g p	<code>'previous-error'</code> (emacs)

To use a custom prefix key:

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

## ESS developer

Evaluate your code into the package (in `ess-dev-map`: **C-c C-t**):

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