

# ESS Reference Card for R

## Interacting with the process

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

⟨RET⟩	Send a command
C-c ⟨RET⟩	Copy old input
⟨TAB⟩	Complete object or file 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
C-c C-r	Top of last output
C-c C-o	Delete last output
C-c C-n	Next prompt
C-c C-p	Previous prompt

### 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:

M-⟨RET⟩	Send current line
⟨RET⟩	Send and move to next line
C-⟨RET⟩	Copy current line into ESS buffer
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** (prefix 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** (prefix C-c C-e):

C-d, d	<b>D</b> ump object into edit buffer
C-e, e	<b>E</b> valuate expression (C-u in temp buf)
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-s, s	<b>S</b> et indentation style
C-t, t	<b>B</b> uild tags for directory

## Reading help files

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

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

## ESS tracebug

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

?	Show key help
b	Set BP (repeat to cycle)
C-b, B	Set conditional BP
C-k, k	Kill BP
C-K, K	Kill all BPs
C-n, n	Goto next BP
C-p, p	Goto previous BP
`	Show R traceback (also on C-c `)
~	Show R call stack (also on C-c ~)
C-e, e	Toggle error action (cycle)
C-d, d	Flag for debugging
C-u, u	Un-flag debugged objects
C-w, w	Watch window

Commands in `ess-debug-mode-map`  
(active during debugging):

M-C	Continue
M-N	Next line
M-Q	Quit
M-U	Up frame
C-M-S-c	Continue Multiple
C-M-S-n	Next Multiple

## Others

C-x ', M-g n	'next-error' (emacs)
M-g p	'previous-error'(emacs)

## Package development

Evaluate your code into a given package (in `ess-dev-map`, prefix `C-c C-t`):

`C-s, s` Select package for namespaced evaluation

Keybindings in `ess-r-package-mode` (`C-c C-w`)  
(call to `devtools` functions):

C-b, b	Build package ( <code>devtools::build()</code> )
C-c c	Check package ( <code>devtools::check()</code> )
C-c w	Check and build package with winbuilder ( <code>devtools::check_win_devel()</code> )
C-c h	Check and build package with R-hub ( <code>devtools::check_rhub()</code> )
C-d, d	Document package ( <code>devtools::document()</code> )
C-i, i	Install package ( <code>devtools::install()</code> )
C-t, t	Run all tests ( <code>devtools::test()</code> )

## Editing documentation

Inside `*.Rd` files:

C-c C-e	Insert a template of help file
<TAB>	Indent current line
C-c C-f	Prefix for font specifiers
C-c C-f <TAB>	Display list of font specifiers
C-c C-j	Insert an '\item' on next line
C-c C-n	(in example section) send current line to ESS process
C-c C-p	Preview help file in plain text

For `Roxygen` users, inside `*.R` files  
(prefix `C-c C-o`):

C-o	Insert an <code>Roxygen</code> template
C-c	Add <code>##'</code> prefix at the beginning of all selected lines
C-r	Parse R file and get Rd code
C-t	Parse R file and preview help file