

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

updated for ESS 18.10-3

June 2019

Interacting with the process

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

| | |
|------------------------------|--------------------------------|
| <code><RET></code> | Send a command |
| <code>C-c <RET></code> | Copy old input |
| <code><TAB></code> | Complete object or file name |
| <code>C-c C-c</code> | Break |
| <code>C-g</code> | interrupt Emacs' waiting for S |
| <code>C-a / C-e</code> | Beginning / End of command |
| <code>C-c C-u</code> | Delete this command |
| <code>C-c C-w</code> | Delete last word |
| <code>C-c C-r</code> | Top of last output |
| <code>C-c C-o</code> | Delete last output |
| <code>C-c C-n</code> | Next prompt |
| <code>C-c C-p</code> | Previous prompt |

Command history (part of Menu 'In/Out')

| | |
|----------------------|----------------------------------|
| <code>M-p</code> | Previous command |
| <code>M-n</code> | Next command |
| <code>C-c C-l</code> | List command history (& choose!) |
| <code>C-c M-r</code> | Previous similar command |
| <code>C-c M-s</code> | Next similar command |

Others

| | |
|----------------------|-------------------------------------|
| <code>C-c C-v</code> | Help for object |
| <code>C-c M-l</code> | Load source file |
| <code>C-c C-x</code> | List objects |
| <code>C-c C-s</code> | Display search list |
| <code>C-c C-q</code> | Quit from S |
| <code>C-c C-z</code> | Switch to most recent script buffer |

Inside ESS Transcripts (I + O)

Inside `*.Rout` files:

| | |
|----------------------------|--------------------------------------|
| <code>M-<RET></code> | Send current line |
| <code><RET></code> | Send and move to next line |
| <code>C-<RET></code> | Copy current line into ESS buffer |
| <code>C-c C-w</code> | Clean Region (\mapsto input only) |

Sweave

| | |
|--------------------|-----------------|
| <code>M-n s</code> | Sweave the file |
| <code>M-n l</code> | Run latex |
| <code>M-n p</code> | Postscript file |
| <code>M-n P</code> | PDF file |

Editing source files

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

| | |
|----------------------------|-------------------------------------|
| <code><TAB></code> | Indent this line |
| <code>M-<TAB></code> | Complete filename/object |
| <code>M-C-/</code> | Indent region |
| <code>M-C-q</code> | Indent this expression (use at '{') |
| <code>M-C-a</code> | Beginning of function |
| <code>M-C-e</code> | End of function |
| <code>M-C-h</code> | Mark this function |
| <code>C-u C-u C-y</code> | Yank striped commands |

Evaluation commands (Prefix `C-u`: *invisibly*)

| | |
|----------------------------|--|
| <code>M-C-x</code> | Evaluate region or function or para |
| <code>C-c C-c</code> | Evaluate region or para. or function & <i>step</i> |
| <code>C-<RET></code> | Evaluate region or line & <i>step</i> |
| <code>C-c C-l</code> | Load this buffer's source file |
| <code>C-c C-j</code> | Evaluate this line |
| <code>C-c M-j</code> | Evaluate this line and go |
| <code>C-c C-f</code> | Evaluate this function |
| <code>C-c M-f</code> | Evaluate this function and go |
| <code>C-c C-p</code> | Evaluate this paragraph and step |
| <code>C-c C-r</code> | Evaluate this region |
| <code>C-c M-r</code> | Evaluate this region and go |
| <code>C-c C-b</code> | Evaluate this buffer |
| <code>C-c M-b</code> | Evaluate this buffer and go |

Others

| | |
|----------------------|--------------------------|
| <code>C-c C-v</code> | Help for object |
| <code>C-c C-z</code> | Switch to process buffer |

General Commands

`ess-doc-map` (prefix `C-c C-d`):

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

`ess-extra-map` (prefix `C-c C-e`):

| | |
|---------------------|---|
| <code>C-d, d</code> | D ump object into edit buffer |
| <code>C-e, e</code> | E valuate expression (<code>C-u</code> in temp buf) |
| <code>C-i, i</code> | I nstall package (in R) or library |
| <code>C-l, l</code> | L oad package (in R) or library |
| <code>C-s, s</code> | S et indentation style |
| <code>C-t, t</code> | 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 |