

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

updated for ESS 5.3.x

July 23, 2008 — as of July 23, 2008

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*):

|                          |                                |
|--------------------------|--------------------------------|
| <code>&lt;RET&gt;</code> | Send a command                 |
| <code>&lt;TAB&gt;</code> | Complete S object 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               |

## 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             |
| <code>C-c&lt;RET&gt;</code> | Copy current input               |
| <code>C-c C-r</code>        | Top of last output               |
| <code>C-c C-o</code>        | Delete last output               |

## Hot keys

|                      |                                   |
|----------------------|-----------------------------------|
| <code>C-c C-v</code> | Help for S object                 |
| <code>C-c C-l</code> | Load source file (+ error check!) |
| <code>C-c C-x</code> | List objects                      |
| <code>C-c C-s</code> | Display <b>search</b> list        |
| <code>C-c C-a</code> | Attach a directory                |
| <code>C-c C-d</code> | Edit an object (dump to file)     |

## Others

|                      |  |
|----------------------|--|
| <code>C-c `</code>   | Jump to error after <code>C-c C-l</code> |
| <code>C-c C-q</code> | Quit from S                              |
| <code>C-c C-z</code> | Kill the S process                       |

## Inside S Transcripts (I + O)

Inside ESS transcript buffers, (`*.Rout` files):

|                          |                             |
|--------------------------|-----------------------------|
| <code>&lt;RET&gt;</code> | Send and Move               |
| <code>C-c C-n</code>     | Next prompt                 |
| <code>C-c C-p</code>     | Previous prompt             |
| <code>C-c C-w</code>     | Clean Region (→ input only) |

## Editing S source

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

|                             |   |
|-----------------------------|---|
| <code>&lt;TAB&gt;</code>    | Indent this line                                  |
| <code>C-c&lt;TAB&gt;</code> | Complete S object name                            |
| <code>M-&lt;TAB&gt;</code>  | Complete file- / path- name                       |
| <code>M-C-a</code>          | Beginning of function                             |
| <code>M-C-e</code>          | End of function                                   |
| <code>M-C-q</code>          | Indent this expression (use at <code>'{'</code> ) |
| <code>M-C-h</code>          | Mark this function                                |

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

|                      |   |
|----------------------|---|
| <code>C-c C-l</code> | Load this buffer – detect errors !                |
| <code>C-c C-n</code> | <u>Step through code – line by line</u>           |
| <code>C-c C-e</code> | Evaluate an expression                            |
| <code>C-c C-j</code> | Evaluate this line                                |
| <code>C-c M-j</code> | Evaluate this line and go                         |
| <code>M-C-x</code>   | Evaluate this function                            |
| <code>C-c C-f</code> | <u>Evaluate this function</u>                     |
| <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-c</code> | <u>Evaluate this para. or function &amp; step</u> |
| <code>C-c C-r</code> | <u>Evaluate this region</u>                       |
| <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 S object               |
| <code>C-c C-d</code> | “dump” – Edit another object    |
| <code>C-c C-z</code> | Return to S process (at prompt) |

## At Sfs, or activated by `M-x ess-add-MM-keys`

|                    |                                      |
|--------------------|--------------------------------------|
| <code>C-c f</code> | insert function() definition outline |
|--------------------|--------------------------------------|

## Reading help files

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

|                  |                                      |
|------------------|--------------------------------------|
| <code>SPC</code> | Next page                            |
| <code>DEL</code> | Previous page                        |
| <code>b</code>   | Previous page ('back')               |
| <code>/</code>   | Search forwards                      |
| <code>n</code>   | Next section                         |
| <code>p</code>   | Previous section                     |
| <code>s</code>   | Skip ('jump') to a named section     |
| <code>s e</code> | e.g., skip to “Examples:”            |
| <code>l</code>   | <u>Evaluate one 'Example' line</u>   |
| <code>r</code>   | Evaluate current region              |
| <code>h</code>   | Help on another object               |
| <code>?</code>   | Help for this mode                   |
| <code>q</code>   | Return to S process ('quit')         |
| <code>x</code>   | Kill this buffer and return ('exit') |