ESS [**E**macs **S**peaks **Statistics**]
Reference Card for S and R

updated for ESS 12.09

September 23, 2012

Interacting with the S process

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

⟨RET⟩	Send a command
C-c	Copy old input
⟨RET⟩	
⟨TAB⟩	Complete filename or S object name. Also bound to M-⟨TAB⟩ (aka 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 h	Handy commands
C-c C-l	**L**oad source file (+ error check!)
C-c C-x	List objects
C-c C-s	Display search list
C-c C-a	**A**ttach a directory
C-c C-d	Edit an object (**d**ump to file)
C-c '	Jump to error after C-c C-l
	In tracebug works for all errors (aka C-x ')
C-c C-q	Quit from S

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)

Sweave

M-n s	Sweave the file
M-n l	Run latex
M-n p	Postscript file
M-n P	PDF file

Editing S source

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 & *step*
C-⟨RET⟩	Evaluate region or line & *step*
C-c C-l	Load this buffer
C-c C-n	Step through code – line by line
C-c C-e	Evaluate an expression
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 h	Handy commands
C-c C-d	"dump" – Edit another object
C-c C-z	Return to process (at prompt)

Reading help files

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

SPC	Next page
DEL	Previous page
b	Previous page ('**b**ack')
n	**N**ext section
p	**P**revious section
s	**S**kip ('jump') to a named section
s e	e.g., skip to "Examples:"
l	Evaluate one 'Example' line
r	Evaluate current **r**egion
q	'**Q**uit window
k	**K**ill this buffer
x	Kill this buffer and return ('e**x**it)
h	**H**elp on another object
?	Help for this mode
a	Display **a**propos
i	Display **i**ndex
v	Display **v**ignettes
w	Display current page in HTML bro**w**ser

ESS tracebug

Activate

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

Basic commands (default prefix `C-c d`):

`?`	Show key help
`b`	Set BP (repeat to cycle)
`k`	Kill BP
`C-n, C-p`	Goto next/previous BP
`'`	Show R Traceback
`e`	Toggle error action (cycle)
`d, D`	Flag/unflag for debugging
`w`	Watch window
`c, n, p, q`	Debugging commands
`0..9, q`	Recover commands

Other commands:

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

Use a custom prefix key (a suggestion):

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

ESS developer

Evaluate your code into the package:

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