



Why are some *Sherpa* commands case-sensitive, while others aren't?

Commands entered at the *Sherpa* prompt fall into three categories: "pure" *Sherpa* commands (i.e. commands handled directly by the *Sherpa* parser); *ChIPS* commands, which are passed to the *ChIPS* parser; and S-Lang statements, which are handled by the S-Lang interpreter.

The *Sherpa* and *ChIPS* parsers handle commands in a case-insensitive fashion. For example, the SHOW command is processed directly by the *Sherpa* parser, so you can enter it in any case:

```
sherpa> show statistic
Statistic:          Chi-Squared Gehrels
sherpa> SHOW statistic
Statistic:          Chi-Squared Gehrels
sherpa> sHoW statistic
Statistic:          Chi-Squared Gehrels
```

On the other hand, the names of S-Lang functions and variables *are* case-sensitive, and changing their capitalization will generate a `Parse Error/Undefined Name` message. For example, list_par is a S-Lang function defined in the *Sherpa S-Lang module*, and its name must be entered in lower case:

```
sherpa> list_par
# Name Type      Value Lnk Frz      Min      Max      Delta
1 cs.c0 src         1   0   0         0 3.4028e+38      -1
sherpa> LIST_PAR
Parse Error/Undefined Name: LIST_PAR;
```

Although S-Lang names can contain both upper and lower-case letters, the names of all functions and variables in the *Sherpa* module are strictly lower-case. Hence, if you are uncertain whether a command is actually a S-Lang function, typing it in lower-case is the safest approach.
