Linking Netlogo to Java & Clojure

some general advice, feel free to take it or leave it...

linking NL to CLJ and/or Java

- use the sock2 extension (see index at s573859921.websitehome.co.uk/pub/netlogo/cogs_nl_tools.htm) & read the user guide:
- 2. invoke NL directly from CLJ and use CLJ to call procedures in NL this works nicely but there is currently no documentation on this.

exchanging data structures

socket communication is textual (Strings). If you want to exchange data structures (ie: a list, etc), convert them to Strings on the writer end then evaluate them on the reader end to rebuild them.

```
In NL use runresult...
```

```
observer> show (runresult "[1 \"banana\" 5 9]")
observer: [1 "banana" 5 9]

in CLJ use readstring & eval...
user=> (read-string "'(cat sat bat)")
(quote (cat sat bat))
user=> (eval (read-string "'(cat sat bat)"))
(cat sat bat)
```

sending commands/program code

Same idea as exchanging data.

In NL use run or runresult (depending on whether you are using a reporter ie: you expect a result)...

```
observer> show runresult "one-of [red blue green]"
observer: 55 ;; green has a value of 55
observer> run "ask patches [set pcolor (grey + 1)]"
```

NB: NL evaluates in any context (observer, agent, link, etc) and in the scope of run/runresult so you can access local vars

```
In CLJ use read-string & eval...
user=> (eval (read-string "(first '(mango melon peach))"))
mango
```

...but note that all CLJ evaluation takes place in the global context.