

Basics

b = Bacalao();
b.boot - boot Server
b.tempo - get/set tempo
b.vars, varSet, varLookup, varPrint, push/pop, loadSamples, loadBuffer - create/access global variables (to be used in pattern parsing)
b.trks - list of active track names
b.gui, showTree, clockWindow - open a GUI for active tracks, or to debug the server tree; open a window showing elapsed time
b.defAdd, defSet, defGet - track Event defaults
b.once - play a track (slot) pattern
b.p - play a repeating track (slot) pattern
b.clear, free - remove a track (clear leaves a VST instrument ready, free removes everything)
b.removeSlots - remove one or several track slots
b.set/get - track Synth/fx control values
b.pset, xset - pattern track (slot) controls
b.db - set volume (dB) for a track
b.sched - schedule a function on clock w/quant
b.fx - define effects for a track (slot)
b.fxClear - clear all effect slots for a track
b.chop - get Pbind for a chopped Buffer pattern
b.proxy - get the NodeProxy for a track

Effects (fx)

b.fxPrintControls - show all track/slot controls and values
b.fxLpf, fxBpf, fxHpf, fxVerb, fxVerbLite, fxCompress, fxLimit, fxDelay, fxDelayDub, fxDelayPingPong, fxDistort, fxCrush, fxCrushHard, fxDownsample, fxDecimate, fxPitchShift, fxTremolo, fxVibrato, fxFlange, fxGate - effects to be passed to **b.fx**

VST Plugins

b.vstPrintInstruments - show all available VST instruments (with/without presets)
b.vstPrintEffects - show all available VST effects (with/without presets)
b.vstInit - initialize a track with a specific VST instrument (and optional preset or MIDI bank/program)
b.vstClearAll, vstFreeAll - clear all VST instruments (clear leaves them ready for re-use, free removes everything)
b.vstRead - load a VST preset for a track
b.vstPresetDir - show the user preset directory for a track's VST instrument
b.vst - get the VSTPluginController for a track
b.vstBankProgram - set the MIDI bank and program numbers for a track with VST instrument

Pattern parsing (create Event patterns with durations)

`deg"0 2 4 ~"` → set \degree to 0,2,4, Rest with equal durations

`deg"[0 1] 2*3 7!2"` → set \degree to 0,1,2,2,2,7,7, with durations $\frac{1}{2}, \frac{1}{2}, 1/12, 1/12, 1/12, \frac{1}{4}, \frac{1}{4}$ of a bar

`deg"<0 1> 7@3"` → alternate: 0,7,1,7,0,7,..., where the 7 has three times the duration of the 0/1

`deg"<0,2,4> <1,3>"` → chord: [0,2,4] followed by [1,3]

Character pattern parsing (use single quotes):
`deg'abc/d e '`, or fix duration: `deg'4@abc/d e/01234'`

Value variable lookup:
`deg~drum"bd:r sd:1 hh*(3,8)"` or `deg~drum'o x h h h '`

Event variable lookup (variables hold multiple properties):
`@~samp"bd:1 sd cp*2"`

Time chaining (duration structure taken from left-most pattern):
`deg"0 2 4 6" << amp"0.7 0.3!3" << pan"-1 1"`

Bacalao v0.5.27 cheatsheet (1/2)
<https://github.com/totalgee/bacalao>