Logic Pro X Scripter Reference

source: http://noisefirm.com & http://culturedear.wordpress.com/

NeedsTimingInfo:boolean	Defining NeedsTimingInfo as true at the global scope enables the GetTimingInfo() function
ResetParameterDefaults:boolean	Sets UI controls to default values
HandleMIDI(Event)	This function is called each time a MIDI event is received by the plug-in, and is required to process incoming MIDI events. If you do not implement this function, events pass through the plug-in unaffected.
ProcessMIDI()	This function is called once per "process block," which is determined by the host's audio settings (sample rate and buffer size). This function is often used in combination with theTimingInfo object to make use of timing information from the host application. To enable the GetTimingInfo feature, addNeedsTimingInfo = true at the global script level.
ParameterChanged(integer, real)	This function is called each time one of the plug-in's parameters is set to a new value. It is also called once for each parameter when you load a plug-in setting.
Reset()	This function is called when the plugin is reset
Trace(value)	Prints a message to the console that represents the supplied value of any type
GetTimingInfo():TimingInfo	Retrieves a TimingInfo object, which contains timing information that describes the state of the host transport and the current musical tempo and meter.
GetParameter(string):real	Returns a given parameter's current value. GetParameter() is typically called inside the HandleMIDI() or ProcessMIDI()functions.

Scripter – Global attributes and functions

Event –	Base	class	for	all	events
---------	------	-------	-----	-----	--------

send()	Send the event
sendAfterMilliseconds(ms:real)	Send the event after the specified value has elapsed
sendAtBeat(beat:real)	Send the event at a specific beat in the host's timeline
sendAfterBeats(beats:real)	Similar to sendAtBeat(), but uses the beat value as a delay in beats from the current position.
trace()	Prints the event to the plug-in console
toString()	Returns a string representation of the event

channel(integer)	Sets MIDI channel 1 to 16. Note: Event. channel is an event property,
	rather than a method, so it may be used in expressions such as (evt.channel == 1) where evt is an instance of Event)

Note – Base class for note events		
Note()	Constructor	
toString()	Returns a String representation of the Note event.	

NoteOn – Represents a note on event

NoteOn(Event)	Constructor
pitch(integer)	Pitch from 1–127
velocity(integer)	Velocity from 0–127. A velocity value of 0 is interpreted as a note off event, not a note on.

NoteOff – Represents a note off event

NoteOff(Event)	Constructor
pitch(integer)	Pitch from 1–127
velocity(integer)	Velocity from 0–127

PolyPressure – Represents a Polyphonic aftertouch event

PolyPressure(Event)	Constructor
pitch(integer)	Pitch from 1–127
value(integer)	Pressure value from 0–127
toString()	Returns a String representation of the PolyPressure event.

ControlChange – Represents a ControlChange event

ControlChange(Event)	Constructor
number(integer)	Controller number from 0–127.
value(integer)	Controller value from 0–127.
toString()	Returns a String representation of the ControlChange event.

ProgramChange – Represents a ProgramChange event

ProgramChange(Event)	Constructor
number(integer)	Program change number from 0–127
toString()	Returns a String representation of the ProgramChange event.
ChannelPressure – Represents	a ChannelPressure event
ChannelPressure(Event)	Constructor
value(integer)	Aftertouch value from 0–127
toString()	Returns a String representation of the ChannelPressure event.
PitchBend – Represents a Pitch	nBend event
PitchBend(Event)	Constructor
value(integer)	14-bit pitch bend value from -8192-8191. A value of 0 is center.
toString()	Returns a String representation of the PitchBend event.
Fader – Represents a Fader eve	ent
Fader(Event)	Constructor
value(integer)	Fader value from 0–127
toString()	Returns a String representation of the Fader event.

TimingInfo – Contains timing information that describes the state of the host transport and the current musical tempo and meter

playing:boolean	Value is true when the host transport is running
blockStartBeat:real	Indicates the beat position at the start of the process block
blockEndBeat:real	Indicates the beat position at the end of the process block
blockLength:real	Indicates the length of the process block in beats.
tempo:real	Indicates the host tempo.
meterNumerator:integer	Indicates the host meter numerator
meterDemoninator:integer	Indicates the host meter denominator.
cycling:boolean	Value is true when the host transport is cycling

leftCycleBeat:real	Indicates the beat position at the start of the cycle range
rightCycleBeat:real	Indicates the beat position at the end of the cycle range

_noteNames:string[]	Contains names such as C and G# for all 128 MIDI notes
_ccNames:string[]	Contains names such as Expression and Sustain for all 128 MIDI controller numbers
noteNumber(string)	Returns the MIDI note number for a given note name. For example: C3 or B#2. Flats not permitted.
noteName(real)	Returns the name for a given MIDI note number.
ccName(real)	Returns the controller name for a given controller number
allNotesOff()	Sends the all notes off message on all MIDI channels
normalizeStatus(real)	Normalizes a value to the safe range of MIDI status bytes (128-239)
normalizeChannel(real)	Normalizes a value to the safe range of MIDI channels (1–16)
normalizeData(real)	Normalizes a value to the safe range of MIDI data bytes (0–127)
_sendEventOnAllChannels(Event)	Sends a given event to all MIDI channels

MIDI – Contains class-level variables and functions (you don't instantiate MIDI)