To Maxuino		Yellow = Basic Commands	Purple = Special commands	Green = Messages from arduino				
	OSC msg	**OSC arguments**	**maxuino msg**	**value options**	**OSC Example**	**Maxuino msg Example**	**Explanation**	**Serial Message**
Pin Operations	/#pin/mode	0, 1, 2, 3, 4, 5, 6	pinMode pin# mode# motor#(for stepper pins, otherwise use 0)	0=Digital In, 1=Digital Out, 2=Analog In, 3=PWM, 4=Servo, 5=Stepper Step, 6=Stepper Dir	/4/mode 3	pinMode 4 3 0	set pin 4 to PWM mode	244 4 3
Digital Output	/#pin/digitalWrite	0, 1	digitalWrite pin# value	0=LOW, 1=HIGH	/3/digitalWrite 1	digitalWrite 3 1	set pin 3 to HIGH	144 16 0
PWM Output	/#pin/analogWrite	[0.-1.]	analogWrite pin# value	floating points between 0. and 1. for 0% to 100% duty cycle	/10/analogWrite .8	analogWrite 10 .8	set PWM pin 10 to 80% duty cycle	254 76 1
Servo Control	/#pin/analogWrite	[0.-1.]	analogWrite	floating points between 0. and 1. for duty cycles within the configured range for your servo	/11/analogWrite .5	analogWrite 11 .5	turn Servo connected to pin 11 half way	255 90 0
Stepper Step	/#pin/stepperStep	[-60,000. - 60,000]	stepperStep pin# motor# steps	integer between -60,000 and 60,000. negative numbers reverse the direction of the stepper.	/3/step 45	stepperStep 3 1 45	turn stepper on "pin 3" (and motor number 1) 45 steps in its current direction	240 103 1 1 45 0 1 247 (sysexStart stepperCommand stepCommand motor# #ofStepsByteOne #ofStepsByteTwo direction sysexEnd)
Stepper speed	/#pin/stepperSpeed	varies (rev per min.)	stepperSpeed pin# motor# rpms	rpm - depends on motor and step settings (1/2 step, 1/4 step, 1/8 step ect)	/9/stepperSpeed 120	stepperSpeed 9 4 120	set speed of motor #4 to 120 rpm	240 103 2 4 120 0 247 (sysexStart stepperCommand speedCommand motor# speedByteOne speedByteTwo sysexEnd)
newStepper					handled in the maxuino object/js. when a pinmode is stepstep and stepdir and have the same motor number, a new stepper is setup		make new stepper using pin 6 and pin 7, labeled motor #2. The stepper uses 200 steps for a full rotation	240 103 0 2 200 6 7 247 (sysexStart stepperCommand newStepCommand motor# #stepsPerRot dirPin# stepPin# sysexEnd)
board capability query	/board/pins	all	board 0	---	/board/pins all	board 0	returns a list of all modes supported by all pins, and the resolution used by each mode.	240 0 247
analog mapping query	/board/pins	analog	board 1	---	/board/pins analog	board 1	The analog mapping query provides the information about which pins correspond to the analog channels.	240 1 247
pin state query	/#pin/state	---	pinState #pin	---	/5/state	pinState 5	query the mode and state of pin 5 (see below for the response)	240 109 5 247

Reset Arduino	/board	reset, version	reset or version	---	/board reset	reset	"/board reset" [resets microcontroller], "/board version", returns firmata version	249
From Maxuino								
	OSC msg	**OSC arguments**	**maxuino msg**	**value options**	**OSC Example**	**Maxuino msg Example**	**Explanation**	**Serial Message**
Analog Inputs	/analog/#pin	[0.-1.]		floating points between 0. and 1. for analog readings between 0 and 1023	/analog/5 .6 [reading from analog input pin 5 returned 0.6 on a scale of 0. to 1.]			analogRead(pin)
Digital Inputs	/digital/#pin	0, 1		0=LOW, 1=HIGH	/digital/3 1 [reading from digital input pin 3 returned HIGH]			digitalRead(pin)
Version #								
					"/board/pins all" returns: /board/digital/1/info 1 1 1 1024...[pin# 1 has mode 1 at resolution of 1, mode 2 at resolution of 1024... until all modes are described			

capability response, analog mapping response	/board/pins	[pin 0, mode 0, resolution] [pin 0, mode 1, resolution]...			then send the modes and resolution of all other pins one by one], "/board/pins analog" returnes /board/1/analog 0, /board/2/analog			
pin state response	/#pin/state	list of two integers indicating: [mode, state], 0, 1, 2, 3, 4 for the corresponding mode, and the current value [0 or 1 for LOW and HIGH and 0-1023 for analog inputs, and 0-255 for PWM pins]			"/4/state 2 788" [pin 4 is in mode 2--analog input--and it reads at 788 on a 0-1023 scale,			

Reset Arduino	/board reset	reset 1, reset 0, version xxx			"/board reset 1" for successful reset,"/board reset 0" for failed reset, "/board version x.x" for firmata version			
version request	/board version							
stepper finished stepping	/stepper/#stepper	0-5			"/stepper/2" means stepper 2 has finished its last step command			