

Arduino Mega R3				Breadboard											
Pin Label	Feature	Use	Label	Red	Blue	a	b	c	d	e	f	g	h	i	j
SCL		LED Display		1							RGB LED				
SDA				2	Arm 5v	<-Resistor->	Arm 5v				RGB LED	RGB LED	Button LED	Gnd	1
AREF				3		Arm Pull Down	Arm Signal				RGB LED	RGB LED	Button Ground		2
GND				4		Arm Switch GND					RGB LED	RGB LED	Button LED	Gnd	3
D13	PWM	RGB LED	Switch One	5		Switch Ground					RGB LED	RGB LED	Button Ground		4
D12	PWM	RGB LED	Kob One	6		Switch Ground					RGB LED	RGB LED	Button LED	Gnd	5
D11	PWM	RGB LED	Switch Two	7							RGB LED				6
D10	PWM	RGB LED	Kob Two	8		Switch Ground					RGB LED	RGB LED	Button Ground		7
D9	PWM	RGB LED	Switch Three	9		Switch Ground					RGB LED	RGB LED	Button LED	Gnd	8
D8	PWM	RGB LED	Switch Four	10		Switch Ground					RGB LED	RGB LED	Button Ground		9
D7	PWM	RGB LED	Knob Three	11		Switch Ground					RGB LED	RGB LED	Button LED	Gnd	10
D6	PWM	RGB LED	Switch Five	12		Switch Ground					RGB LED	RGB LED	Button Ground		11
D5	PWM	RGB LED	Switch Six	13							RGB LED				12
D4	PWM	RGB LED	Switch Seven	14		Switch Ground					RGB LED	RGB LED	Button LED	Gnd	13
D3	PWM	RGB LED	Switch Eight	15		Switch Ground					RGB LED	RGB LED	Button Ground		14
D2	PWM	RGB LED	Knob Four	16		Switch Ground					RGB LED	RGB LED	Button LED	Gnd	15
D1		Cannot use. Shared with USB Serial.		17		Switch Ground				Simple Button LED	RGB LED		Button Ground		16
D0				18		Switch Ground				Simple Button LED	RGB LED		Button LED	Gnd	17
D14		RGB LED No Brightness	Switch Nine	19						Simple Button LED					18
D15		RGB LED No Brightness	Switch Ten	20	Potentiometer	Potentiometer				Simple Button LED	RGB LED		Button Ground		19
D16		RGB LED No Brightness	Switch Eleven	21	Potentiometer	Potentiometer				Simple Button LED			Button LED	Gnd	20
D17		RGB LED No Brightness	Switch Twelve	22	Potentiometer	Potentiometer				Simple Button LED			Button Ground		21
D18		Switch Signal	Switch One	23	Potentiometer	Potentiometer				Simple Button LED			Button LED	Gnd	22
D19		Switch Signal	Switch Two	24	Potentiometer	Potentiometer				Simple Button LED			Button Ground		23
D20		Cannot use. Shared with SDA.		25						Simple Button LED					24
D21		Cannot use. Shared with SDL.		26	Potentiometer	Potentiometer				Simple Button LED			Triangle Ground		25
5v		Breadboard		27	Potentiometer	Potentiometer					RGB LED	RGB LED	Triangle Ground		26
5v		Breadboard		28							RGB LED	RGB LED	Big Ground		27
D22		Simple Button LED		29							RGB LED	RGB LED	Big Ground		28
D23		Button Signal		30	Arduino 5V	Arduino Ground					Arduino 5V	Arduino Ground			29
D24		Simple Button LED													30
D25		Button Signal													
D26		Simple Button LED													
D27		Button Signal													
D28		Simple Button LED													
D29		Button Signal													
D30		Simple Button LED													
D31		Button Signal													
D32		Simple Button LED													
D33		Button Signal													
D34		Simple Button LED													
D35		Button Signal													
D36		Simple Button LED													
D37		Button Signal													
D38		Simple Button LED													
D39		Button Signal													
D40		Simple Button LED													
D41		Button Signal													
D42		Switch Signal	Switch Five												
D43		Switch Signal	Switch Six												
D44	PWM	RGB LED	Knob Five												
D45	PWM	RGB LED	Knob Six												
D46	PWM	RGB LED	Knob Seven												
D47		Switch Signal	Switch Seven												
D48		Switch Signal	Switch Eight												
D49		Switch Signal	Switch Nine												
D50		Switch Signal	Switch Ten												
D51		Switch Signal	Switch Eleven												
D52		Switch Signal	Switch Twelve												
D53		Arming Switch Signal													
GND		Breadboard													
GND		Breadboard													
A15/D69		Triangle Button Signal													
A14/D68		Triangle Button LED													
A13/D67		Big Button Signal													
A12/D66		Big Button LED													
A11/D65		Switch Signal	Switch Three												
A10/D64		Switch Signal	Switch Four												
A9/D63															
A8/D62															
A7/D61															
A6/D60		Potentiometer	Knob Seven												
A5/D59		Potentiometer	Knob Six												
A4/D58		Potentiometer	Knob Five												
A3/D57		Potentiometer	Knob Four												
A2/D56		Potentiometer	Knob Three												
A1/D55		Potentiometer	Knob Two												
A0/D54		Potentiometer	Knob One												
Vin															
GND															
GND		LED Display													
5v															
3.3v															
RESET															
IO Ref															

NOTE: LEDs tied to non-PWM pins CANNOT set brightness. (Code will ignore attempts)

