The Controller Series.
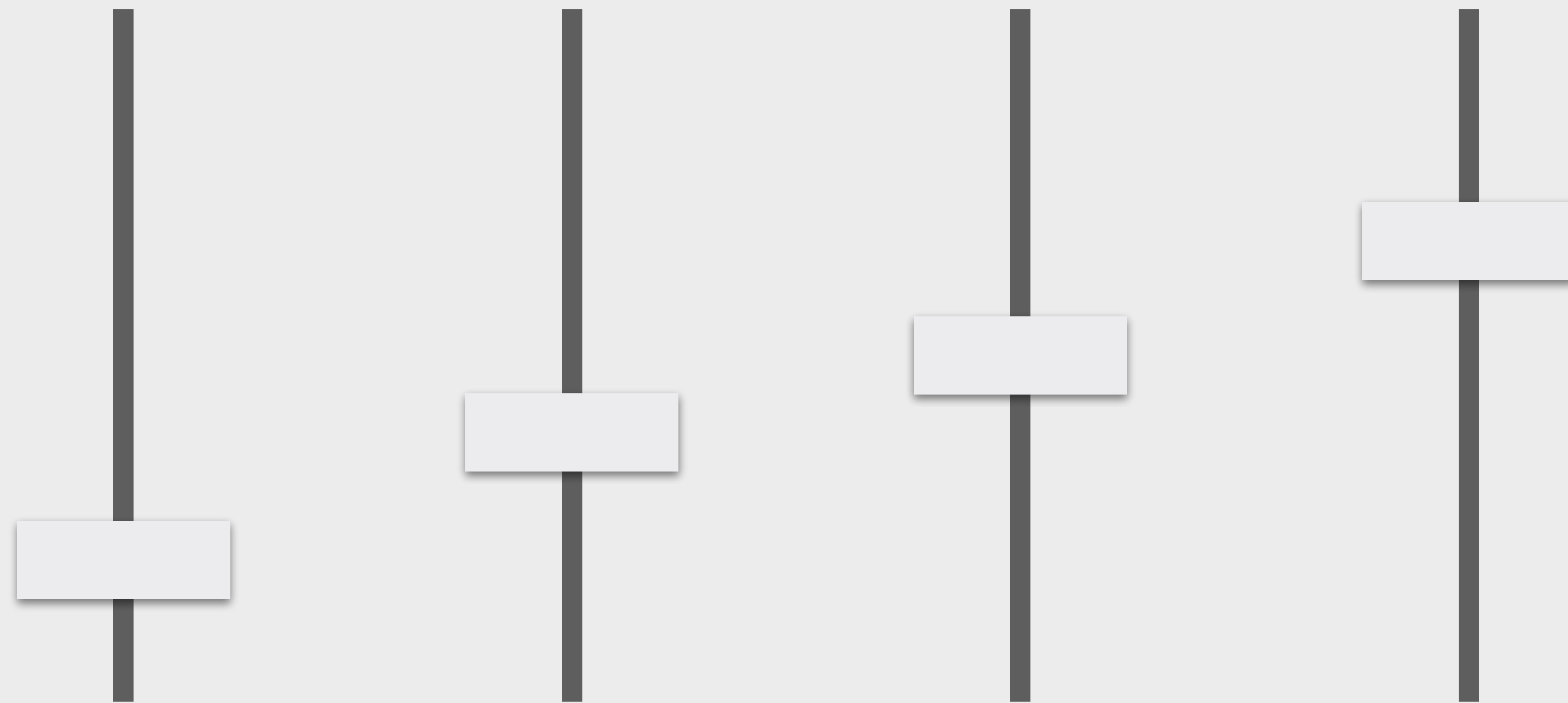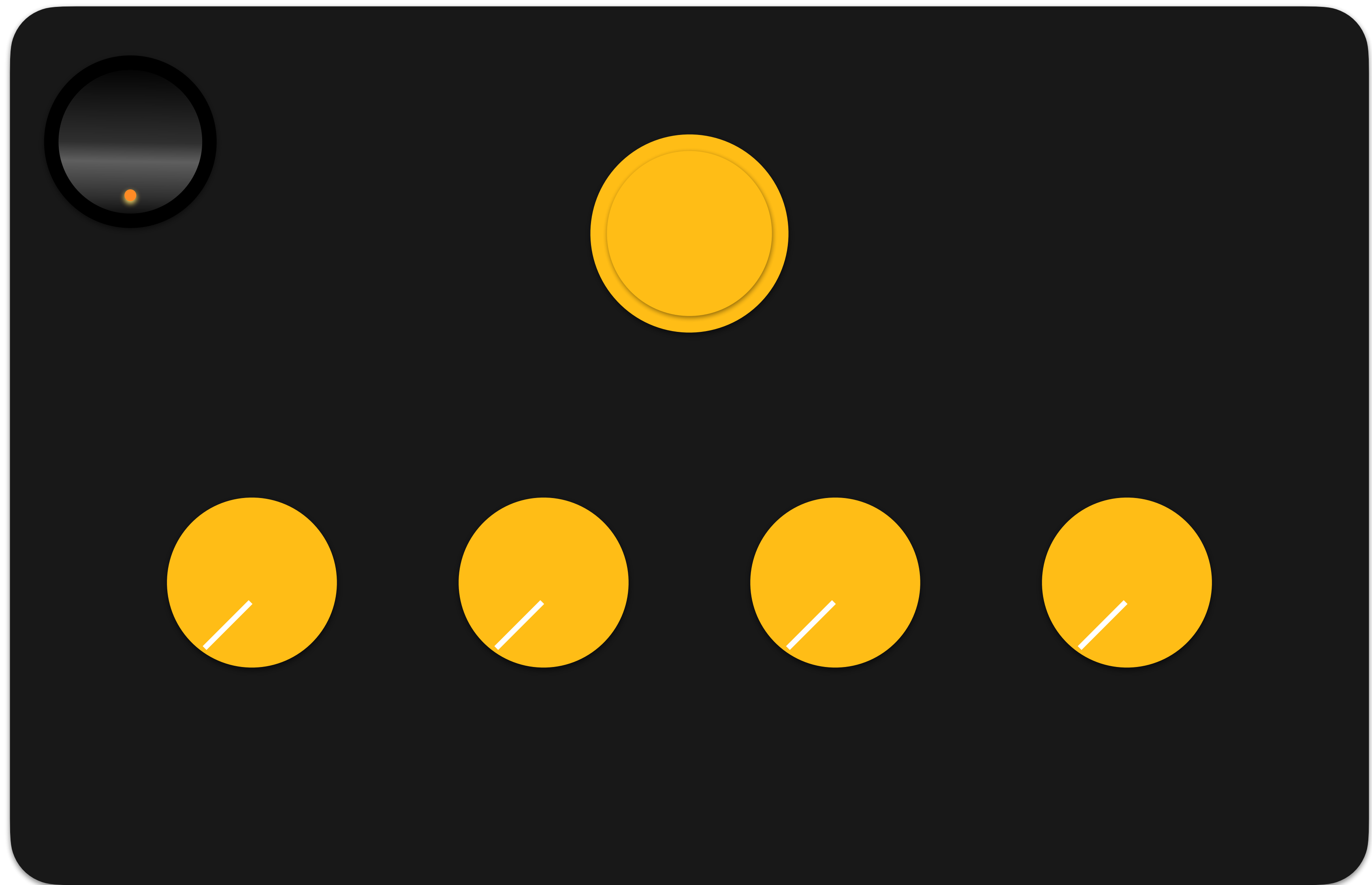
A pxf experiment.
Accessible, Resonate, Lighting.
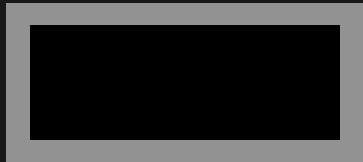
PXF1

Power

Mode Select

5v in   **USB**   **LED1**   **LED2**

Mode Select Legend:

H- Hue

S- Saturation

V-Brightness

X-Effect or Speed

Mode Select

- **FillStripSparkle _HSV**
- **SpeedMarquee XHSV**
- **NorthLight_XXXV**
- **MovingDot X_SV**
- **RainbowBeat XX_V**
- **ConcertPop_XHSV**
- **EightDots_XXSV**
- **3 Waves HHHV**

Master Part & Link

MASTER PARTS LIST								
Part	Price	PPP	Order Qty	OH	Inv	Use	Notes	Link
5v LED Strip 16ft	$23.99	$23.99	1	1	0	1		https://www.amazon.com/
Power Supply	$9.99	$9.99	1	0	0	0		https://www.amazon.com/
Enclosure	$10.99	$10.99	1	1	1	0	Black	https://www.amazon.com/gp/
Arduino Nano Clone	$13.99	$4.66	3	3	2	1		https://www.amazon.com/gp/
PCB	$11.68	$2.34	5	5	4	1	3.66x2.52	https://www.amazon.com/
PCB Standoffs	$12.28	$0.61	20	20	20	0		https://www.amazon.com/gp/
Resistors	$5.69	$0.06	100	100	95	5	380ohm	https://www.amazon.com/gp/
Capacitors	$6.62	$0.66	10	10	3	7	16v 100uF	https://www.amazon.com/gp/
Toggle Switch	$9.99	$1.25	8	8	7	1	20A 12V DC On/Off Blue LED	https://www.amazon.com/
Knobs	$12.99	$4.33	3	0	0	0	Aluminum/silver	https://www.amazon.com/
Potentiometer	$9.99	$1.00	10	10	3	7	Black/Orange Knobs Incl.	https://www.amazon.com/Taiss-
4 Pin Waterproof	$11.88	$2.38	5	5	5	0	Waterproof Twist Lock	https://www.amazon.com/dp/
LED Power Wire	$17.89	$17.89	1	1	1	0	50ft	https://www.amazon.com/gp/
WireKit	$12.95	$12.95	1	1	1	0	22G Silicone	https://www.amazon.com/gp/
Arcade Buttons	$10.99	$0.92	12	12	12	0	Multi Color	https://www.amazon.com/gp/
Barrel Connector	$7.99	$0.80	10	0	0	0		https://www.amazon.com/dp/
Rubber Grommet Kit	$10.95	$0.09	125	125	125			https://www.amazon.com/gp/
	$200.85				0			

PB5	D13				D12	PB4	MISO
	+3V3				~D11	PB3	MOSI
	AREF				~D10	PB2	
ADC[0]	PC0	A0	D14		~D9	PB1	
ADC[1]	PC1	A1	D15		D8	PB0	
ADC[2]	PC2	A2	D16		D7	PD7	
ADC[3]	PC3	A3	D17		~D6	PD6	
ADC[4]	PC4	A4	D18		~D5	PD5	
ADC[5]	PC5	A5	D19		D4	PD4	
ADC[6]	ADC[6]	A6	D20		~D3	PD3	
ADC[7]	ADC[7]	A7	D21		D2	PD2	
	+5V				GND		
PC6	RESET				RESET	PC6	
	GND				D0/RX	PD0	
	VIN				D1/TX	PD1	

FT23RL

| TX LED | 22-CBUS1 |
| RX LED | 23-CBUS0 |

Power

| LED_BUILTIN | PB5 |