Trash it!
Push button

Recycle it!
Potentiometer

Compost it!
Push/Pull
sensor

Sensors
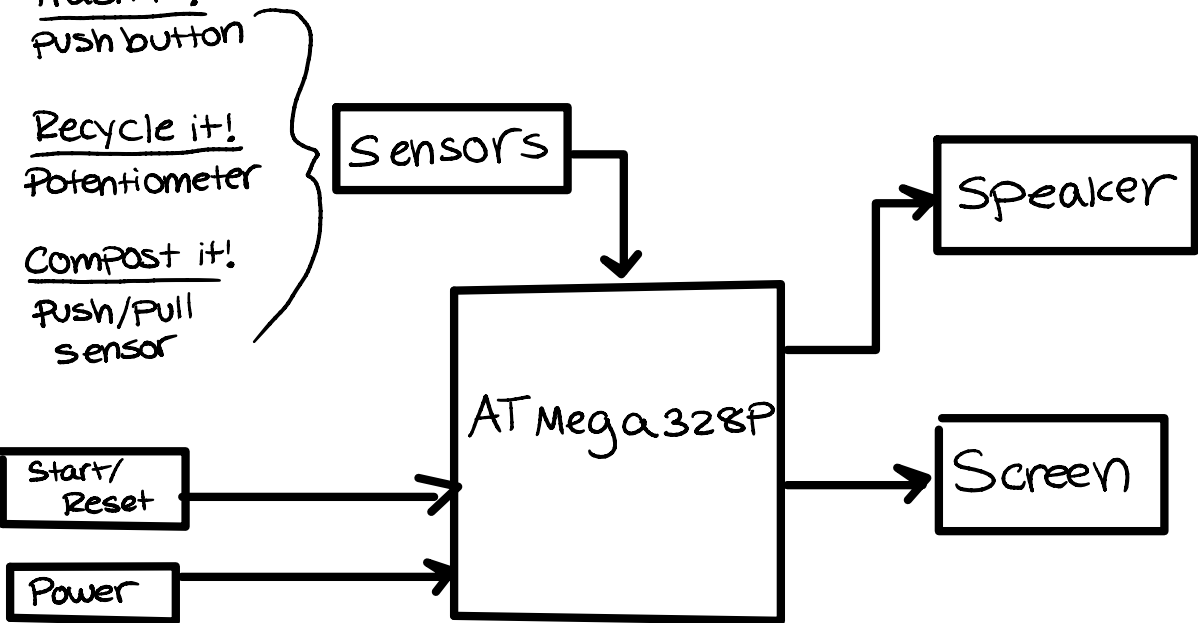
Speaker

ATMega 328P

Screen
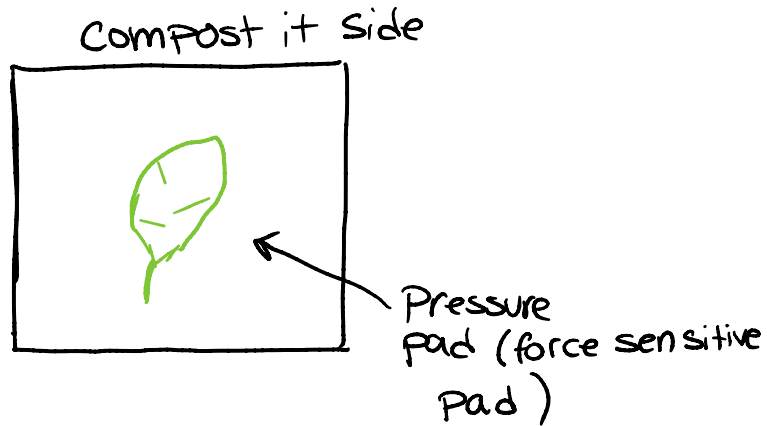
Start/
Reset

Power
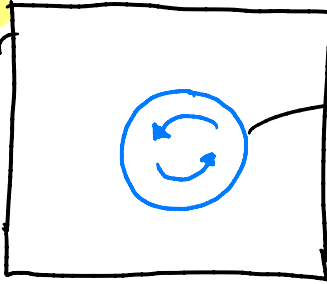
Cube should be about 3in x 3in x 1in ?
↳ convert to mm

Trash it
Button

Recycle
it

Compost
it

screen

Speaker

Compost it Side

Pressure
pad (force sensitive
pad)
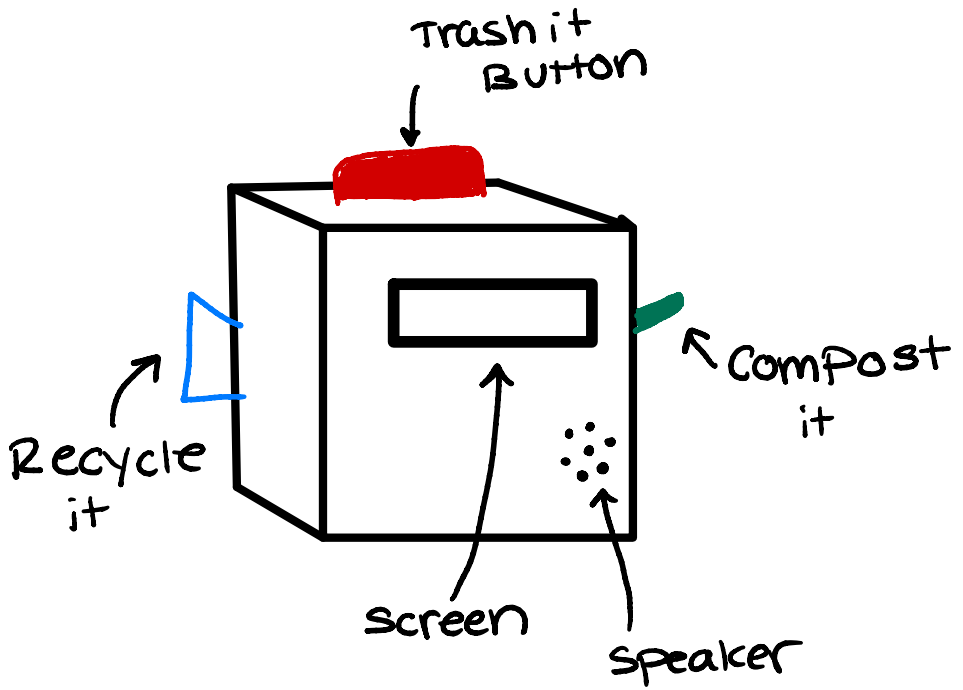
↳ to determine
size of
enclosure
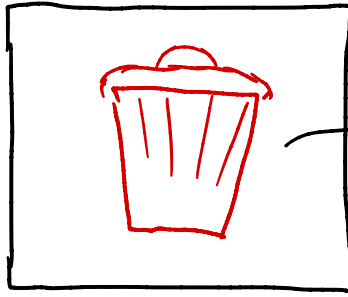
enclosure for
button in the
shape of a
trash can

enclosure
for recycling button

Reset

Arduino function (left) — ATmega328P pinout — **Arduino function** (right)

Annotation (handwritten)	Arduino function (left)	Chip label	Pin	Pin	Chip label	Arduino function (right)	Annotation (handwritten)
— Reset	reset	(PCINT14/RESET) PC6	1	28	PC5 (ADC5/SCL/PCINT13)	analog input 5	
DF Player mini / SD	digital pin 0 (RX)	(PCINT16/RXD) PD0	2	27	PC4 (ADC4/SDA/PCINT12)	analog input 4	
	digital pin 1 (TX)	(PCINT17/TXD) PD1	3	26	PC3 (ADC3/PCINT11)	analog input 3	
button —	digital pin 2	(PCINT18/INT0) PD2	4	25	PC2 (ADC2/PCINT10)	analog input 2	
Potentiometer	digital pin 3 (PWM)	(PCINT19/OC2B/INT1) PD3	5	24	PC1 (ADC1/PCINT9)	analog input 1	
Force sensitive Resistor	digital pin 4	(PCINT20/XCK/T0) PD4	6	23	PC0 (ADC0/PCINT8)	analog input 0	
	VCC	VCC	7	22	GND	GND	
	GND	GND	8	21	AREF	analog reference	
	crystal	(PCINT6/XTAL1/TOSC1) PB6	9	20	AVCC	VCC	— Power
	crystal	(PCINT7/XTAL2/TOSC2) PB7	10	19	PB5 (SCK/PCINT5)	digital pin 13	
I2C driver for LCD driver	digital pin 5 (PWM)	(PCINT21/OC0B/T1) PD5	11	18	PB4 (MISO/PCINT4)	digital pin 12	
	digital pin 6 (PWM)	(PCINT22/OC0A/AIN0) PD6	12	17	PB3 (MOSI/OC2A/PCINT3)	digital pin 11(PWM)	
	digital pin 7	(PCINT23/AIN1) PD7	13	16	PB2 (SS/OC1B/PCINT2)	digital pin 10 (PWM)	
	digital pin 8	(PCINT0/CLKO/ICP1) PB0	14	15	PB1 (OC1A/PCINT1)	digital pin 9 (PWM)	

*add header pins to schematic

for reProgamming