Output 2: DC Motors
Making motions
DC Motor
null
Transistor

emitter

base

collector
In Class Exercise

1. **Solder wires to the motor**
2. **Build the DC motor circuit**
3. **Try your input sensors**
4. **Explore different propellers and eccentric weights**
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PotControlsMotor

```c
// one pot fades one led
// modified version of AnalogInput
// by DojoDave <http://www.DojoDave.com>

int potPin = 6;  // select the input pin for the potentiometer
int ledPin = 9;  // select the pin for the LED
int val = 0;     // variable to store the value coming from the pot

void setup() {
  Serial.begin(9600);
}

void loop() {
  val = analogRead(potPin);  // read the value from the sensor
  Serial.println(val);
  analogWrite(ledPin, val/4);  // analogWrite can be between 0-2
}
```

![Diagram of DC Motor Control Circuit]
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Cork Eccentric Weight
Eccentric Weight
Cork Eccentric Weight
Supplement Reading

Making Movement: Chapter 10 of O’Sullivan and Igoe.
Assignment this week

Explore motion as an output (in a form of display or tactile feedback). Use your DC motor to create vibration or rotational motion (e.g., pinwheels, dancing wires, etc.).

Optional: Combine it with other output (sound, lights, etc.)
Thanks!