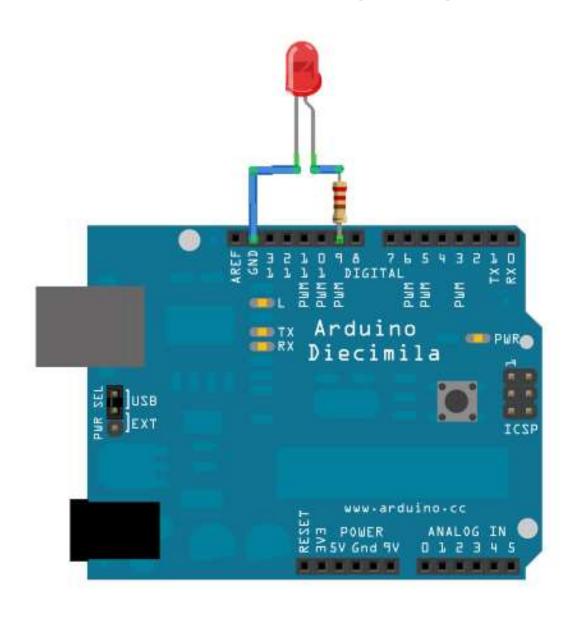


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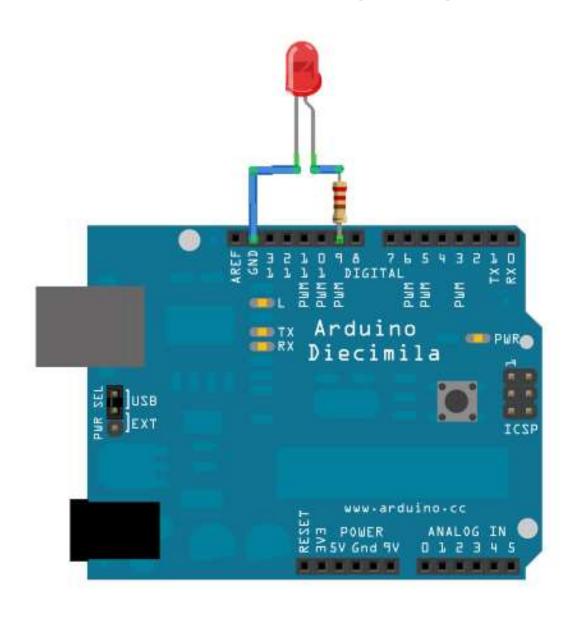


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int ledPin = 9;  // LED connected to digital pin 9
void setup() {
 // nothing happens in setup
}
void loop() {
  // fade in from min to max in increments of 5 points:
  for (int fadeValue = 0 ; fadeValue <= 255; fadeValue += 5) {</pre>
    // sets the value (range from 0 to 255):
    analogWrite(ledPin, fadeValue);
    // wait for 30 milliseconds to see the dimming effect
   delay(30);
  }
  // fade out from max to min in increments of 5 points:
  for (int fadeValue = 255; fadeValue >= 0; fadeValue -= 5) {
    // sets the value (range from 0 to 255):
    analogWrite(ledPin, fadeValue);
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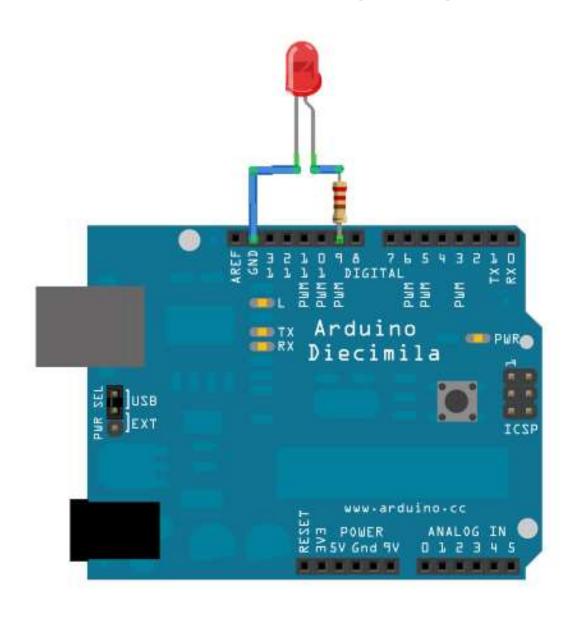


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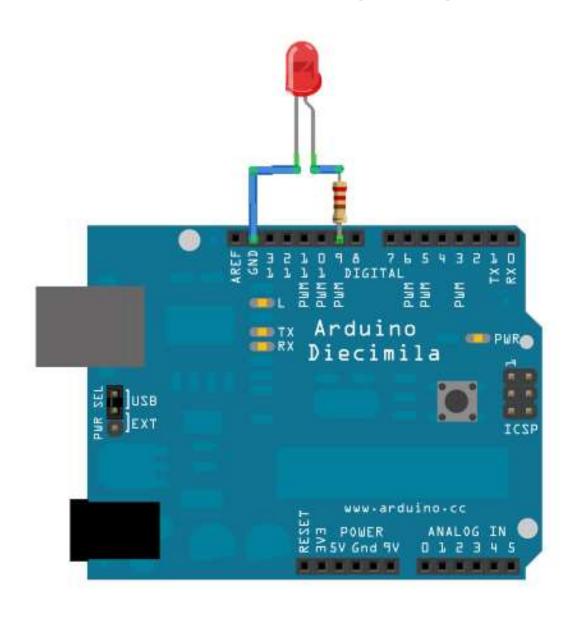


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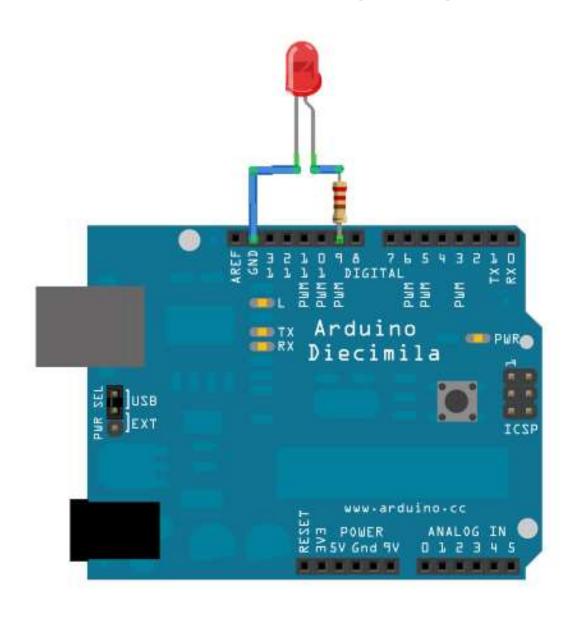


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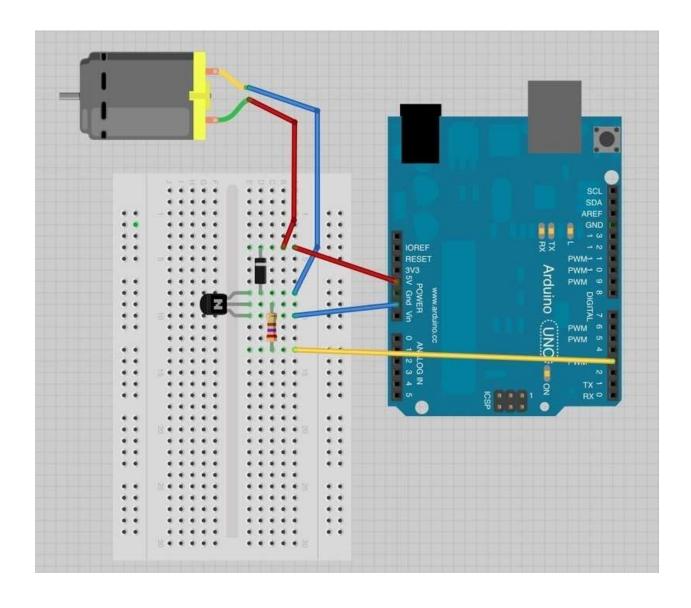


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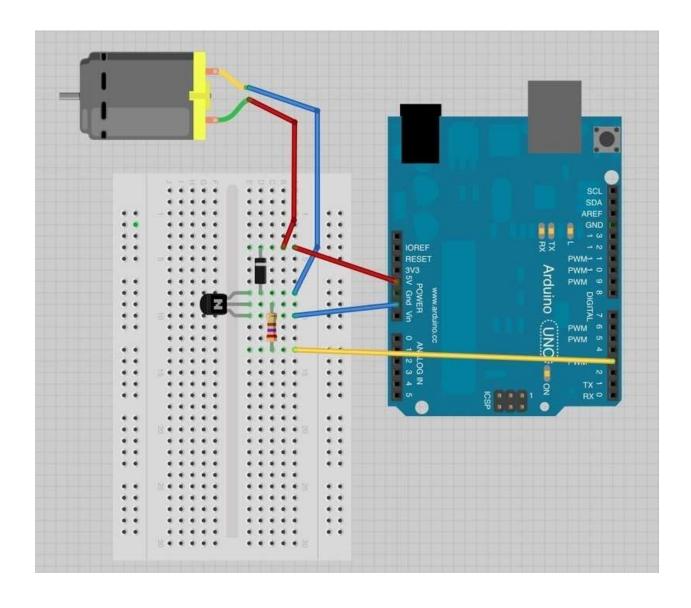


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```
int motorPin = 3;
void setup() {
  pinMode (motorPin, OUTPUT);
  Serial.begin (9600);
  while (! Serial);
  Serial.println("Speed 0 to 255");
}
void loop() {
  if (Serial.available()) {
    int speed = Serial.parseInt();
    if (speed >= 0 && speed <= 255) {
      analogWrite (motorPin, speed);
    }
  }
}
```



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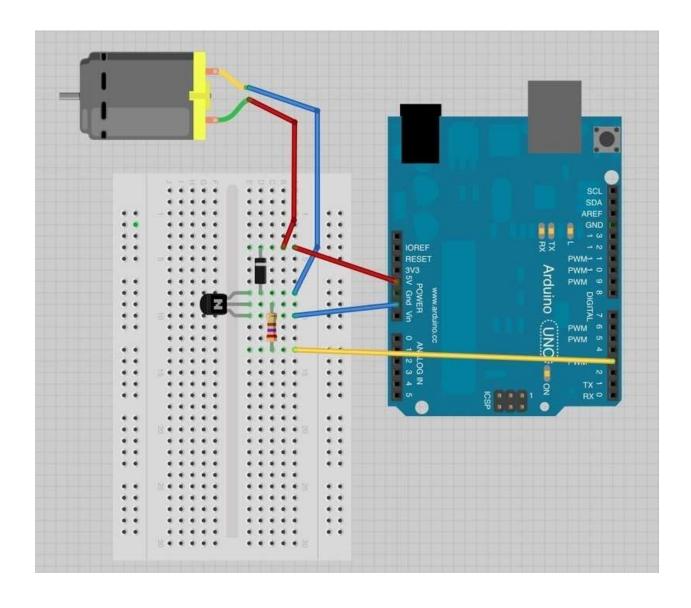


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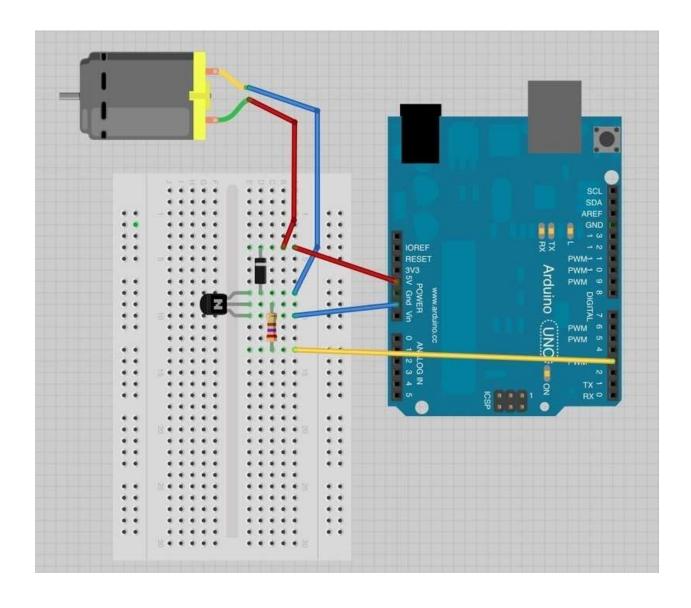


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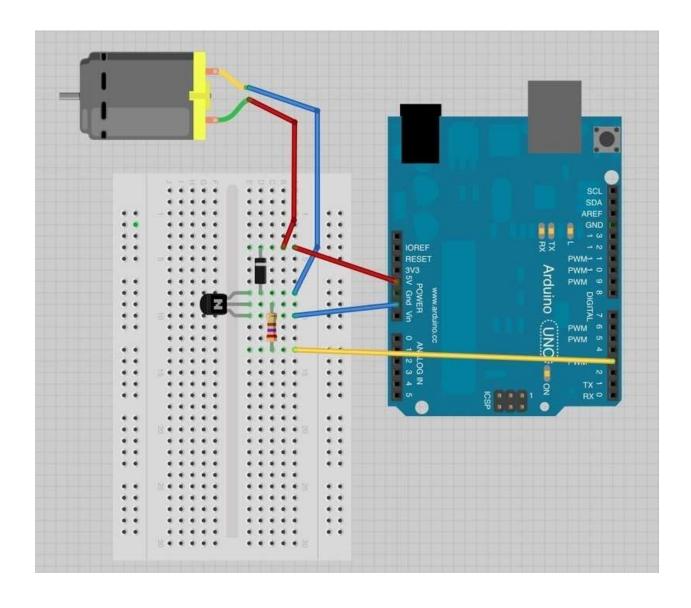


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      analogWrite (motorPin, speed);
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