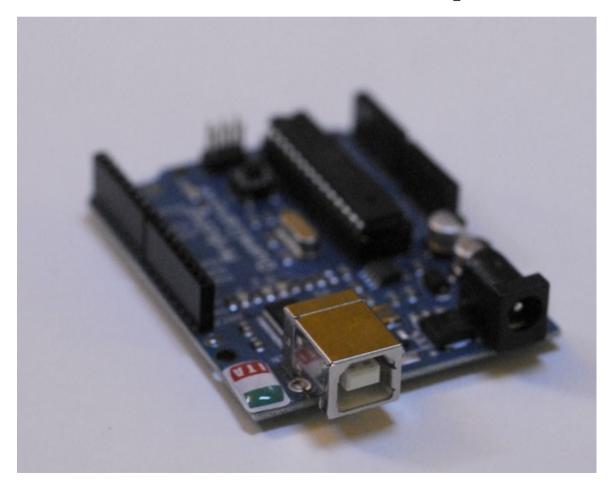
Arduino Input and Output

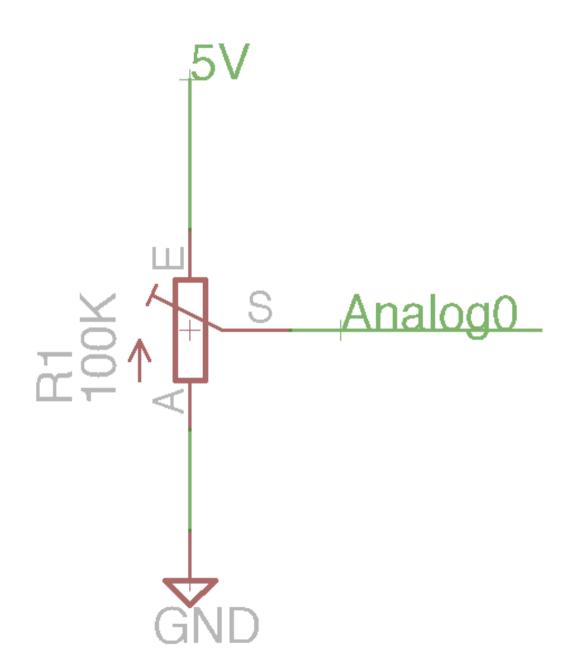


Instructor: Morgan Redfield 2010 December 5 2:00-4:00 PM

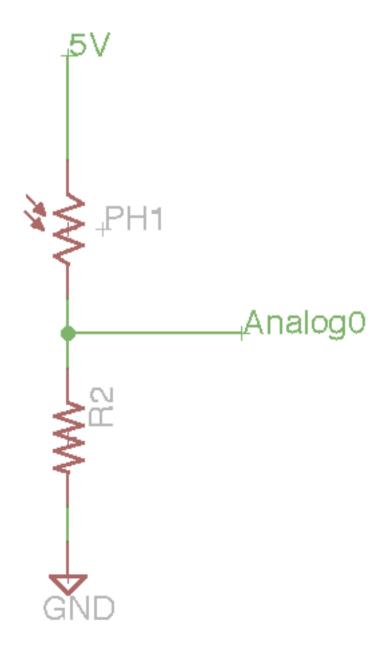
Today we'll be covering:

- Analog Input
- PWM
- LED brightness
- Servos
- Transistors

Analog Input



Simple Sensors



PWM

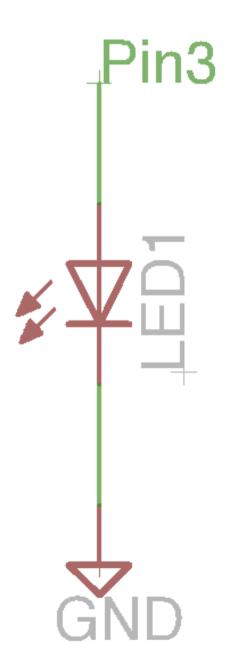
Create a time averaged analog value by pulsing a digital value

25% duty cycle: average 1.25V

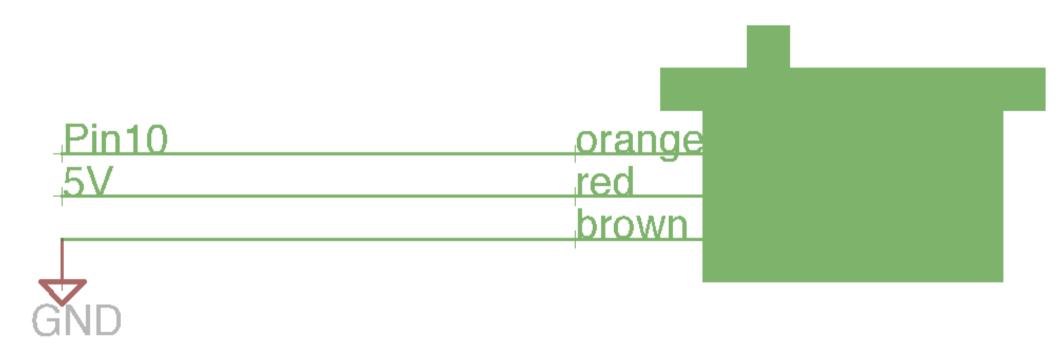
50% duty cycle: average 2.5V

75% duty cycle: average 3.75V

LED brightness



Servos



What are transistors?



NPN Transistor switch

