

Introduction

mBlock is a graphical programming environment that is specially designed for beginners to easily program Arduino projects.

Getting started

mBlock

Download mBlock from <http://www.mblock.cc>

Arduino kit

Blinking LED

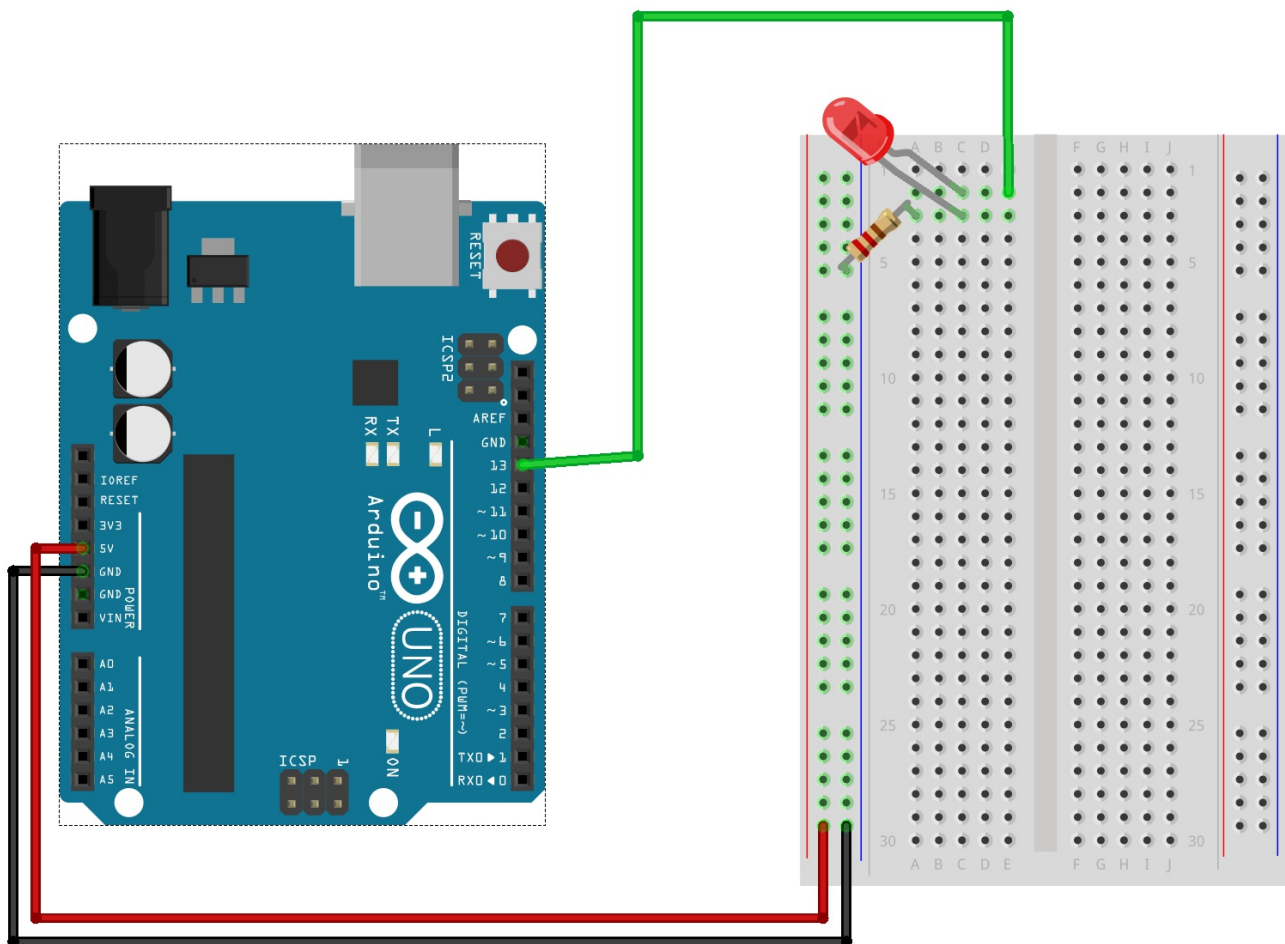
What is an LED?

What is the end result of this experiment?

Required parts

Component	Quantity
LED	1
Resistor	1
Jumper wires	3

Circuit Diagram



fritzing

mBlock Code

Arduino Program

forever

set digital pin 9 output as HIGH

wait 1 secs

set digital pin 9 output as LOW

wait 1 secs



Potentiometer

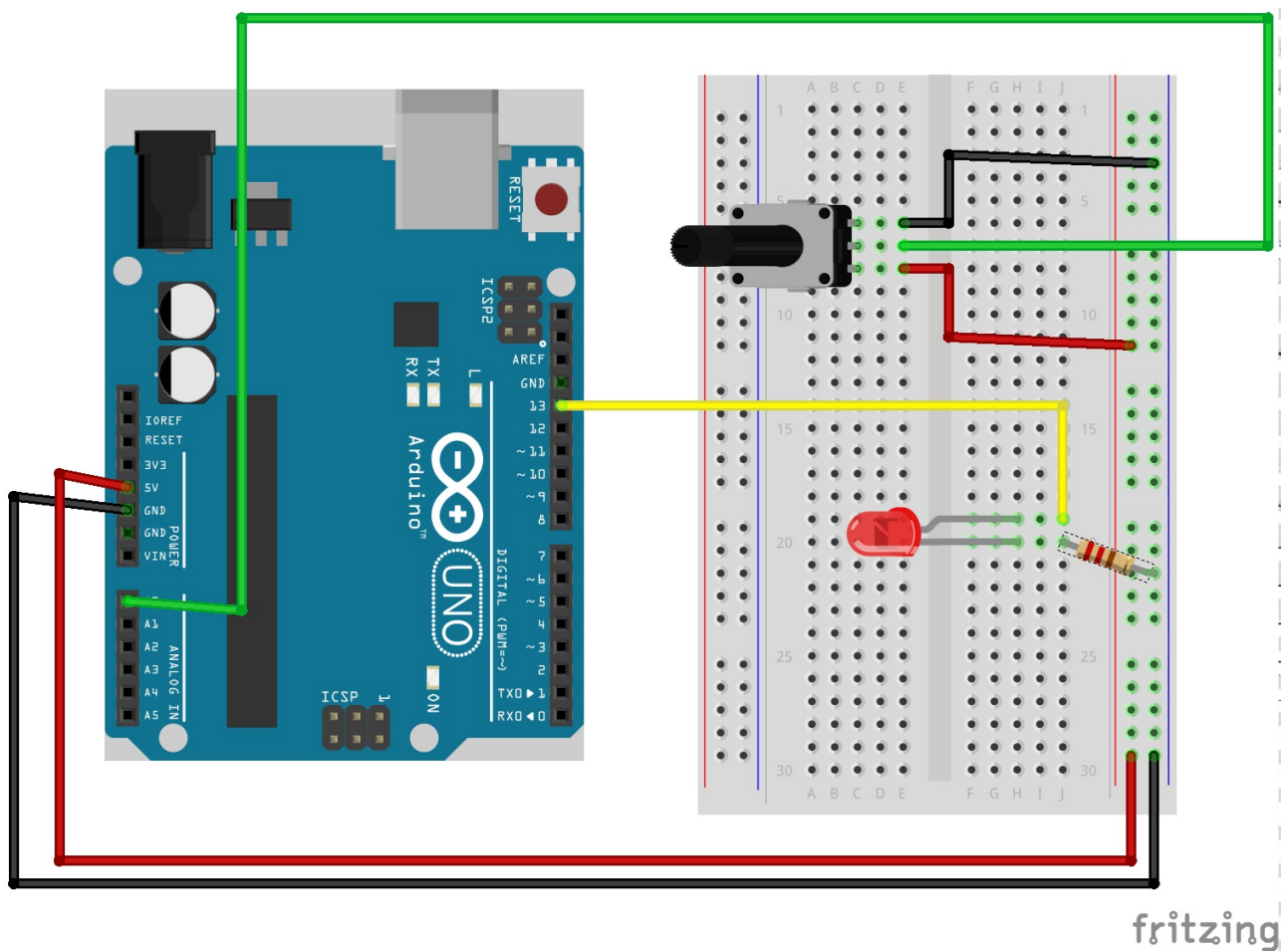
What is a Potentiometer?

What is the end result of this experiment?

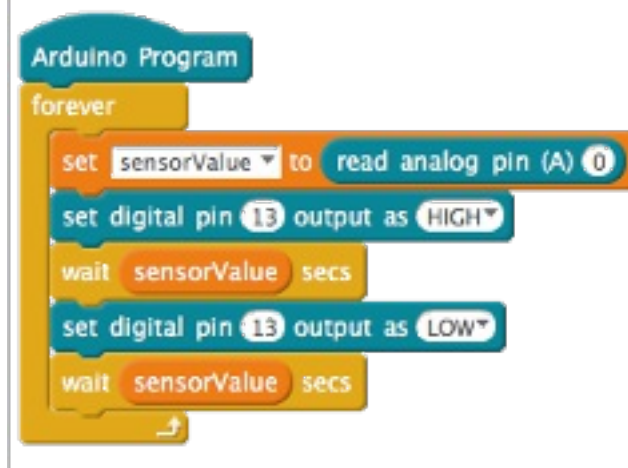
Required parts

Components	Quantity
Potentiometer	1
LED	1
Resistor	1
Jumper wires	7

Circuit Diagram



mBlock Code



RGB LED

What is an RGB LED?

What is the end result of this experiment?

Required parts

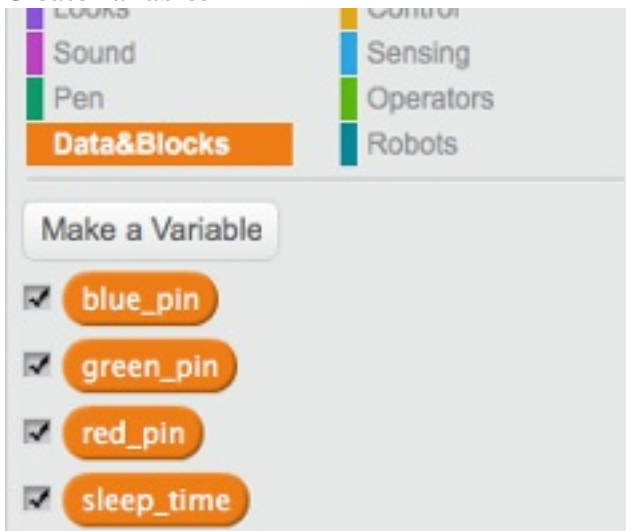
Component	Quantity
RGB LED	1
Resistor	3
Jumper wires	6

Circuit Diagram



mBlock Code

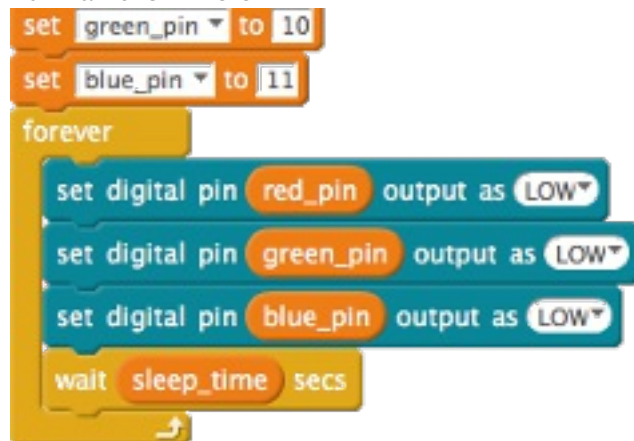
Create variables



Assign variables



Turn all the LEDs off



Turn on red



Turn on green



Turn on blue



Red and Green

Red and Blue

Green and Blue

