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

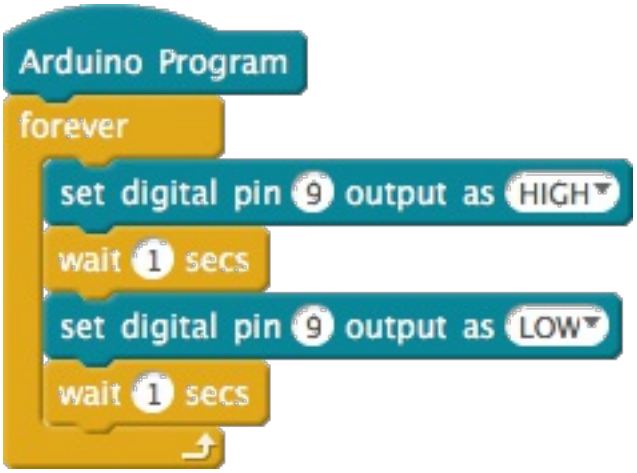
What is an LED?
What is the end result of this experiment?

Required parts

Component	Quantity
LED	1
Resistor	1
Jumper wires	3

Circuit Diagram

mBlock Code



Potentiometer

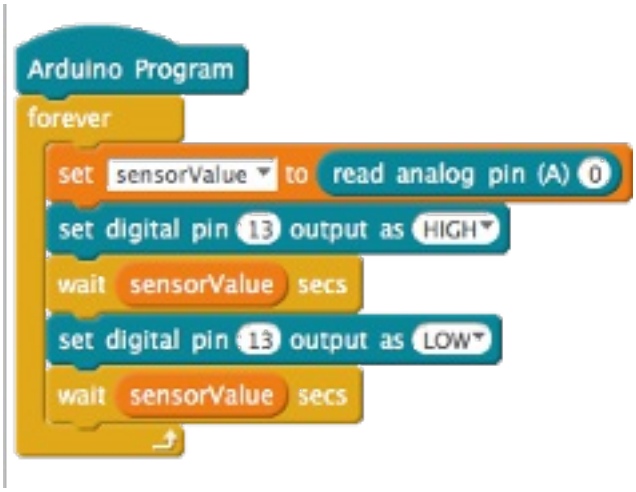
What is a Potentiometer?
What is the end result of this experiment?

Required parts

Components	Quantity
Potentiometer	1
LED	1
Resistor	1
Jumper wires	1

Circuit Diagram

mBlock Code



RGB LED

What is an RGB LED?
What is hte end result of this experiment?

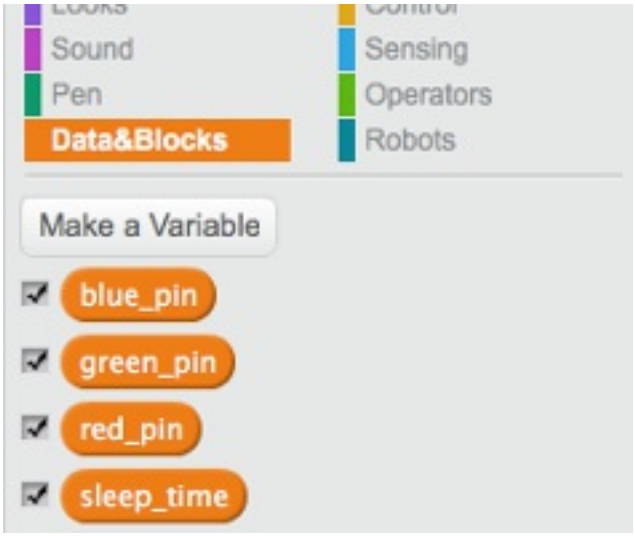
Required parts

Component	Quantity
RGB LED	1
Resistor	3
Jumper wires	6

Circuit Diagram

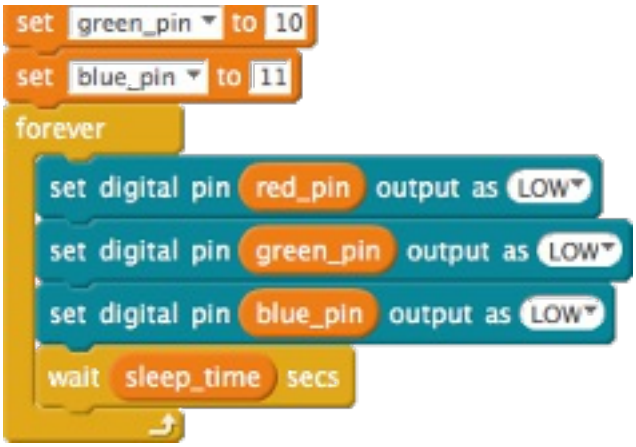
mBlock Code

Create variables

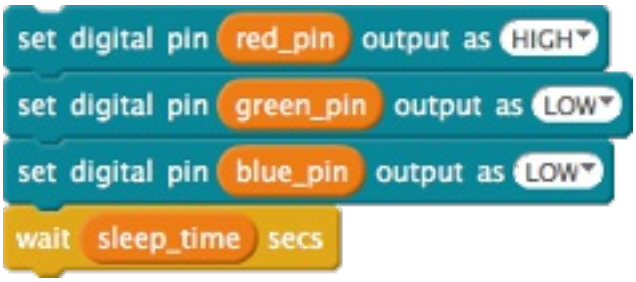


Assign variables

Turn all the LEDs off

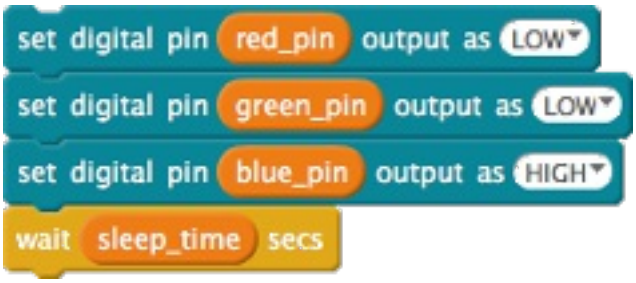


Turn on red



Turn on green

Turn on blue



Red and Green

Red and Blue

Green and Blue