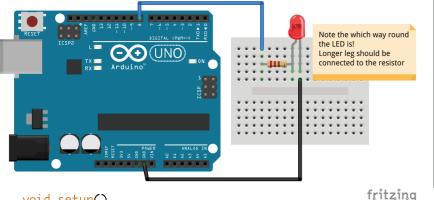
Arduino cheatsheet 1

Blink an LED





void setup() pinMode(8 , OUTPUT); void loop() digitalWrite(8 , HIGH); delay(1000); digitalWrite(8 , LOW); delay(1000);

What does this code do?

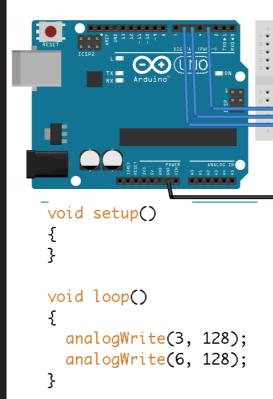
This code turns on the LED connected to pin 8, waits 1000ms (1 second), turns it off again, waits another 1 second and starts again



RGB LED

in 1 that share a cathode (negative). The cathode is

The 3 pins control red, green





What does this code do?

This code uses PWM (analog output) to turn pin 3 (blue) and pin 6 (red) on half way each to provide us with the colour purple. LED power goes from 0 to 256

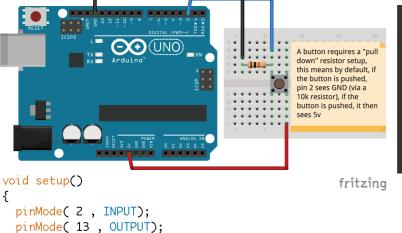
void loop()

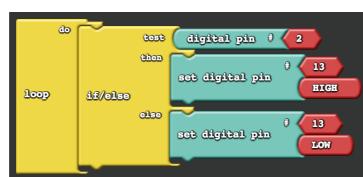
if (digitalRead(2))

digitalWrite(13 , HIGH);

digitalWrite(13 , LOW);

Detect a button push





What does this code do?

This code turns constantly checks if the button connected to pin 2, is pushed. If it is pushed, it lights the built in LED on pin 13. If not, it turns off the LED.

Detecting Light with an LDR

An LDR changes resistance based on

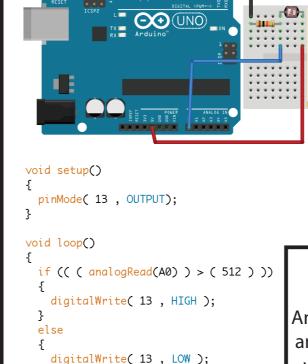
light shining on it The LDR is connected

with a "pull down"

It is connected to pin

to a button.

fritzing



analog pin # (0) > set digital pin 1000 if/else else set digital pin fritzing

What does this code do?

Analog pins allow you to measure the voltage between 0 and 5v. It returns a result between 0 and 1024. This code will turn on LED 13 if the analog pin A0 reads over 512

Created by @gbaman1 and @minigirlgeek