bool

[Data Types]

Description

A bool holds one of two values, [true](https://www.arduino.cc/reference/en/language/variables/constants/constants) or [false](https://www.arduino.cc/reference/en/language/variables/constants/constants). (Each bool variable occupies one byte of memory.)

Syntax

bool var = val;

Parameters

var: variable name.  
val: the value to assign to that variable.

Example Code

This code shows how to use the bool datatype.

int LEDpin = 5; // LED on pin 5

int switchPin = 13; // momentary switch on 13, other side connected to ground

bool running = false;

void setup() {

pinMode(LEDpin, OUTPUT);

pinMode(switchPin, INPUT);

digitalWrite(switchPin, HIGH); // turn on pullup resistor

}

void loop() {

if (digitalRead(switchPin) == LOW) {

// switch is pressed - pullup keeps pin high normally

delay(100); // delay to debounce switch

running = !running; // toggle running variable

digitalWrite(LEDpin, running); // indicate via LED

}

}