

Arduino Uno Quick Reference Guide

Getting started

- If Arduino is not install, download and install Arduino IDE from www.arduino.cc
- Connect to Arduino board using USB cable
- Start Arduino IDE, use Tool>Port to select <COM> port
- Load sample LED blink example from File>Examples>01.Basics>Blink menu
- Click on Compile/Upload (arrow) icon below menu bar

Arduino Reference (default: UNO)

Topics	Notes	void setup() { ... }	void loop() { ... }
Digital Write		pinMode(pin, OUTPUT);	digitalWrite(pin, value);
Digital Read		pinMode(pin, INPUT);	Variable = digitalRead(pin);
Analog Write	Digital pins 3,5,6,9,10,11 are capable of PWM~ (0-255)	pinMode(pin, OUTPUT);	analogWrite(pin,, value);
Analog Read	Reads analog pins 0-5; (Max 1023 (5v), Min 0 (0v))		Variable = analogRead(pin);
Serial Monitor	Use Tools> menu to select plotter or printer.	Serial.begin(9600);	Serial.println("mytext"); Serial.println(variable);
Delay			delay(milliseconds)
Variable Type	char, byte, int, unsigned int, long,unsigned long, float, double. var_type var_name=var_initial;		;
Constant	const var_type var_name = value;		
If ... else			if (condition) {...} else {...}
While			while (condition){...}
for			for (index=init; cond; index mod) {...}
Conditions	"&" bitwise and " " bitwise or "~" bitwise not "x == y" x is equal to y "x != y" x is not equal to y "x < y" x is less than y "x > y" x is greater than y "x <= y" x is less than or equal to y "x >= y" x is greater than or equal to y		
Comment	// rest of line is comment.		