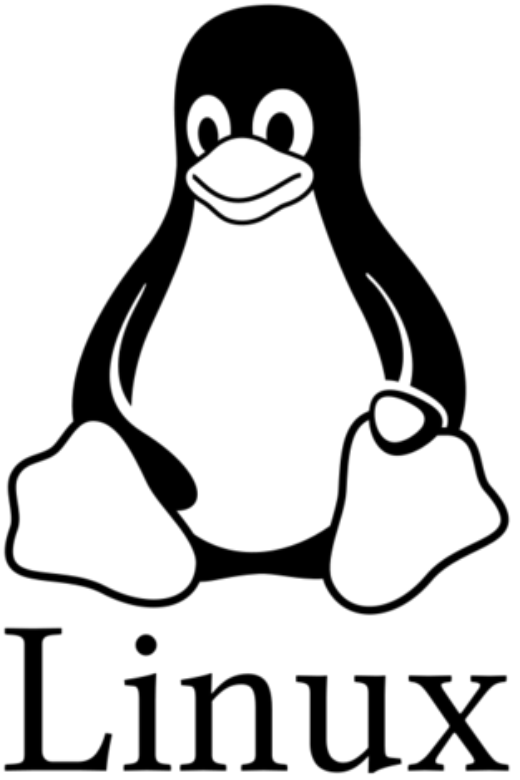
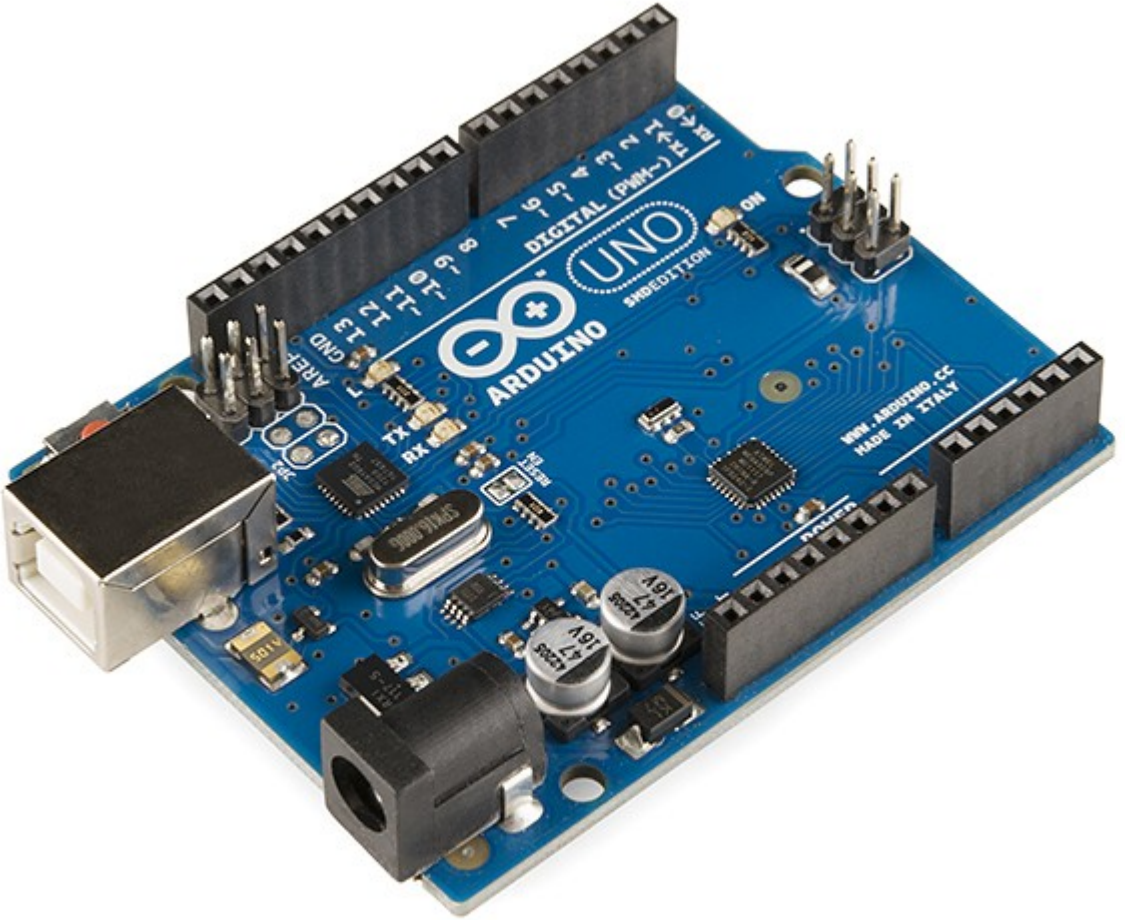
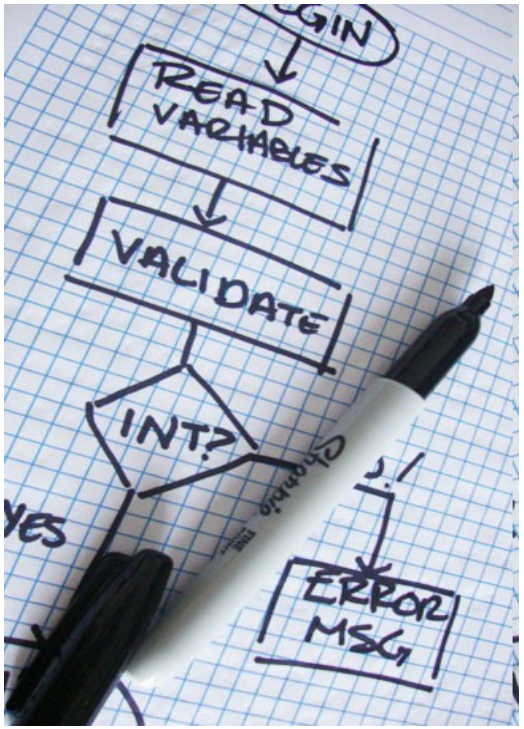
Arduino + Linux



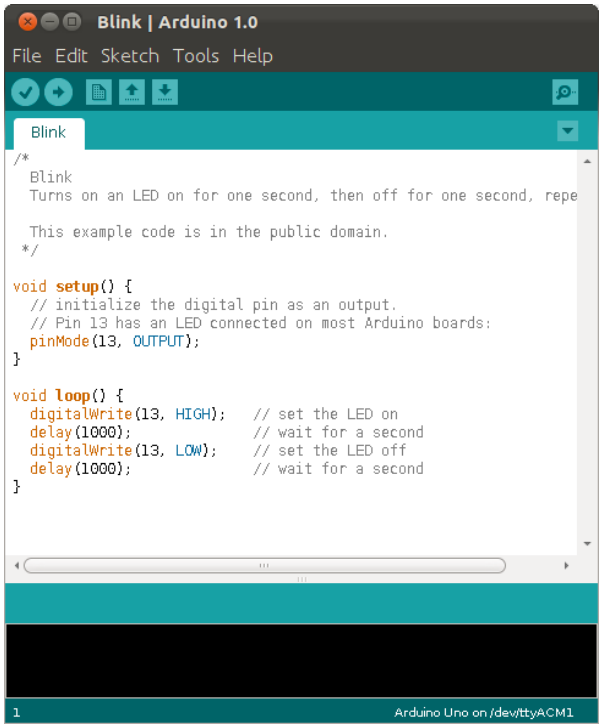
Arduino


UNO
ARDUINO
DIGITAL (PWM~)
POWER
ANALOG IN
ON
TX
RX
WWW.ARDUINO.CC
MADE IN ITALY

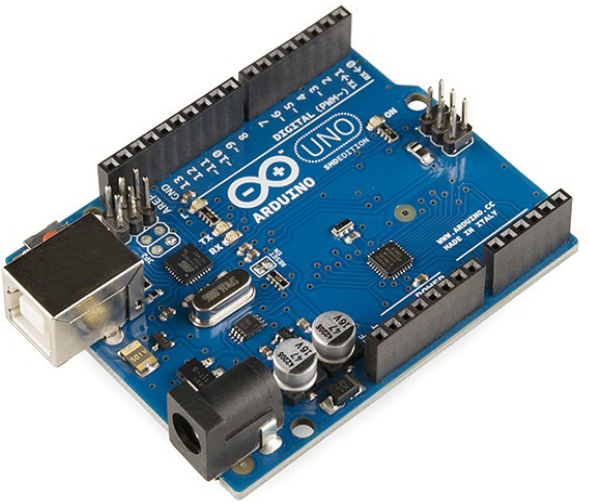
Cos'e' Arduino?



Core



IDE



Hardware

OpenHardware

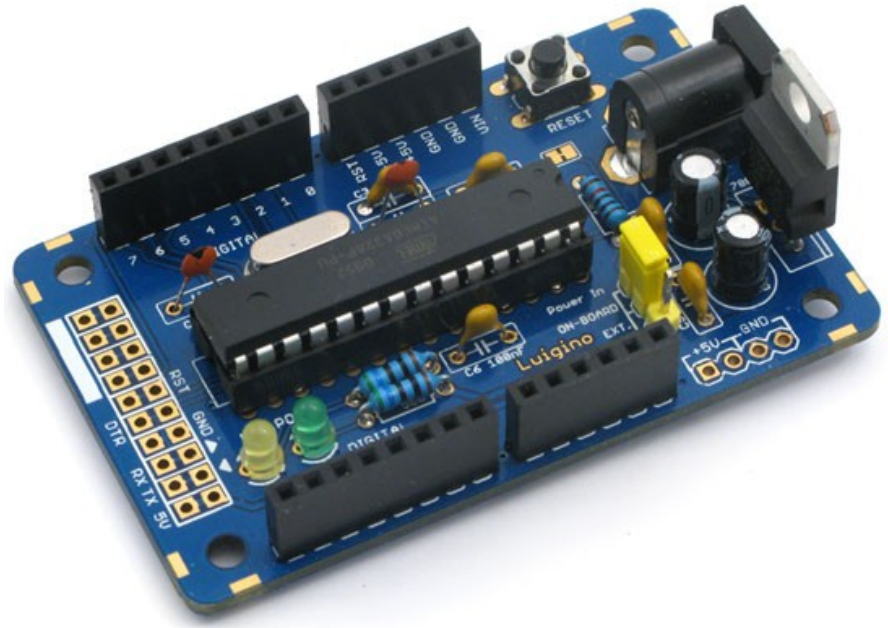
Documentation

OSH: Schematics, Reference Design, Board size

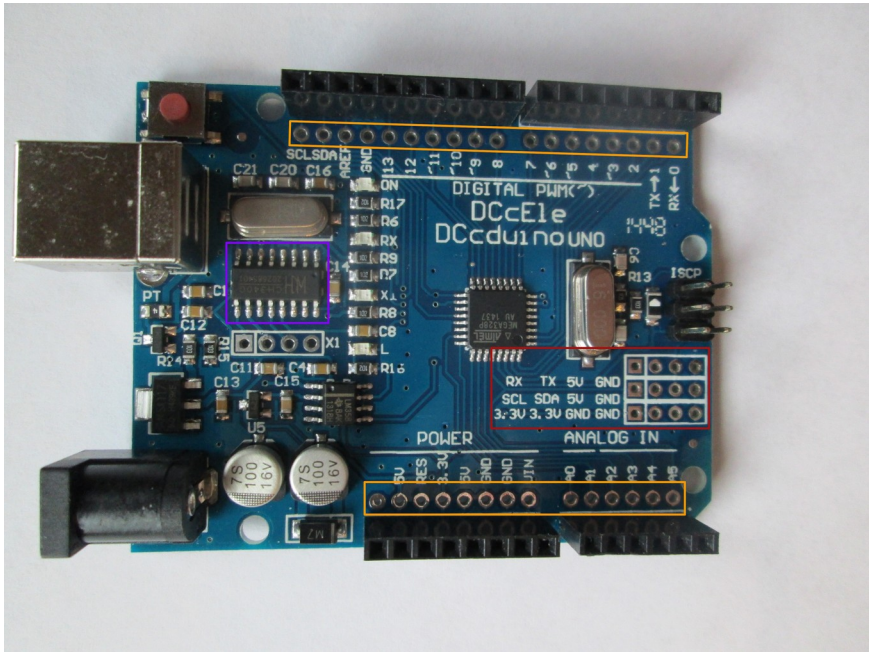
The Uno is open-source hardware! You can build your own board using the follwing files:

- Condivisione
- Modifiche e miglioramenti
- Concorrenza

Modelli modificati



Luigino



DCduino

Modelli economici

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high quality UNO R3 MEGA328P for Arduino UNO R3 NO USB CAB

98.9% of buyers enjoyed this product! (4141 votes) | 3931 orders

Price: € 2,51 / piece

Shipping: **Free Shipping** to Italy via China Post Ordinary Small Packet Plus
Estimated Delivery Time: 15-34 days (ships out within 5 business days)

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Modelli economici

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100.0% of buyers enjoyed this product! (34 votes) | 47 orders

Price: ~~€ 12,80 / lot~~ (10 pieces / lot , € 1,22 / piece)

Discount Price: € 12,16 / lot 8 days left

Save more on the app

Shipping: **Free Shipping** to Italy via China Post Registered Air Mail

Estimated Delivery Time: 15-34 days (ships out within 7 business days)

Quantity: 1 lot (31 lots available)

Total Price: € 12,16

Buy Now | Add to Cart

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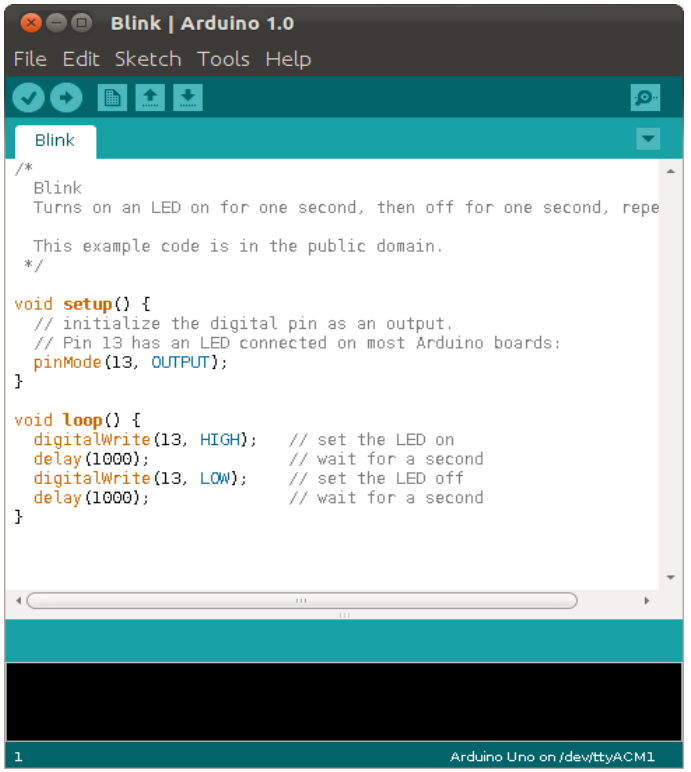
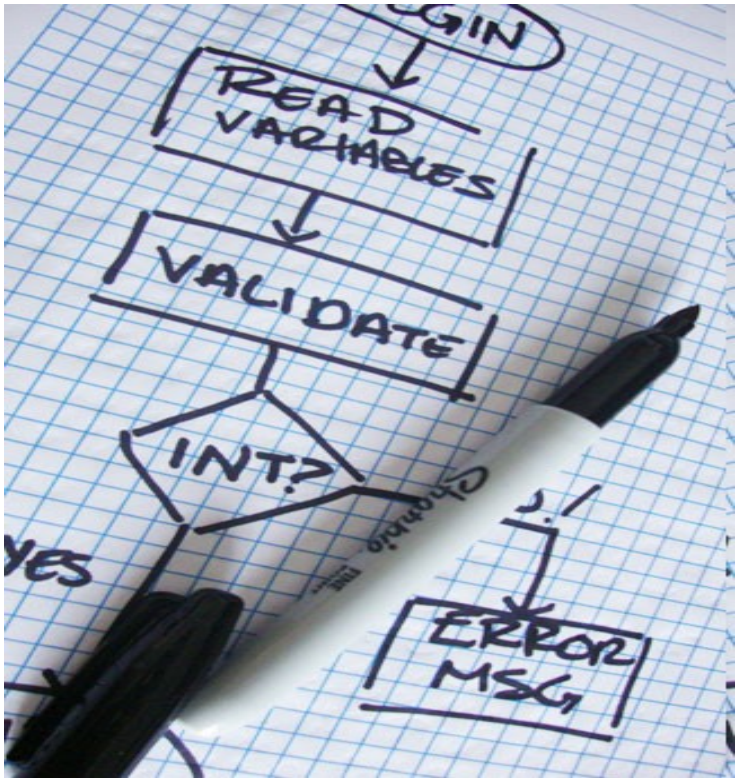
Open Source

- Modificabile
- Nuove feature
- Nuove librerie
- Portabile su altre architetture

Open Source



IDE



Core

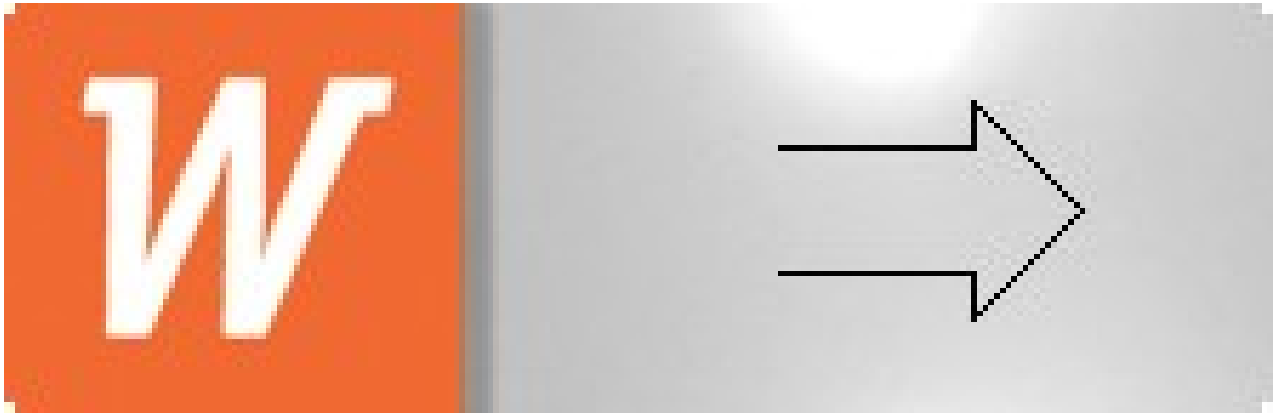
Arduino Core

```
int ledPin =  13;    // LED connected to digital pin 13

// The setup() method runs once, when the sketch starts

void setup()   {
  // initialize the digital pin as an output:
  pinMode(ledPin, OUTPUT);
}

// the loop() method runs over and over again,
// as long as the Arduino has power

void loop()
{
  digitalWrite(ledPin, HIGH);   // set the LED on
  delay(500);                  // wait for a second
  digitalWrite(ledPin, LOW);    // set the LED off
  delay(500);                  // wait for a second
}
```

Wiring

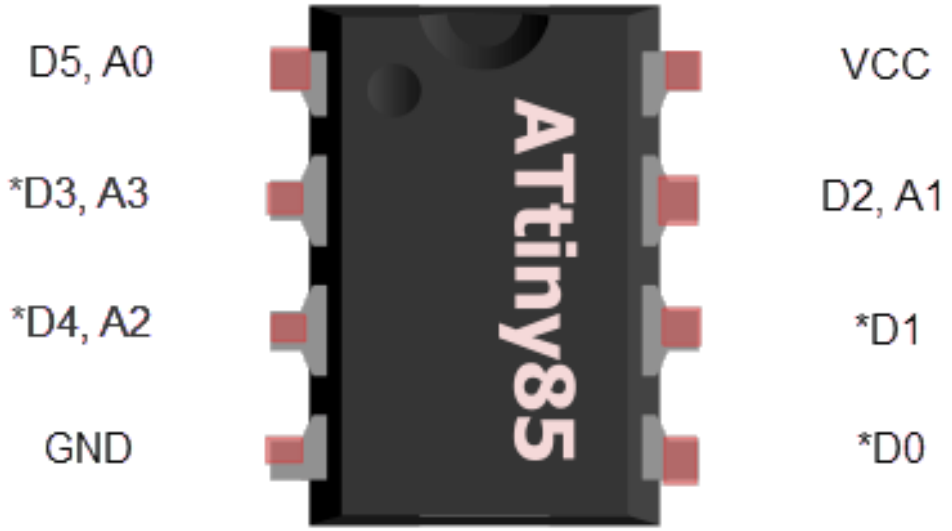
Librerie

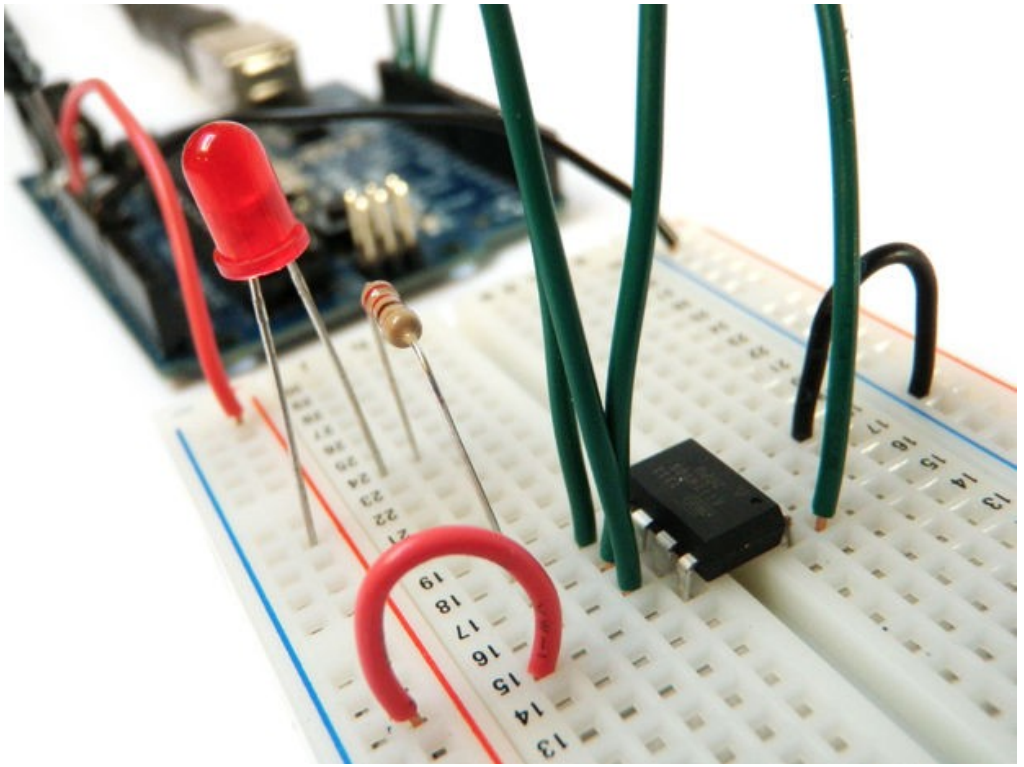
Standard



Arduino Core (Wiring e librerie)
Tendono a diventare uno standard
Per le piattoforme di prototipizzazione
E piccoli microcontroller.

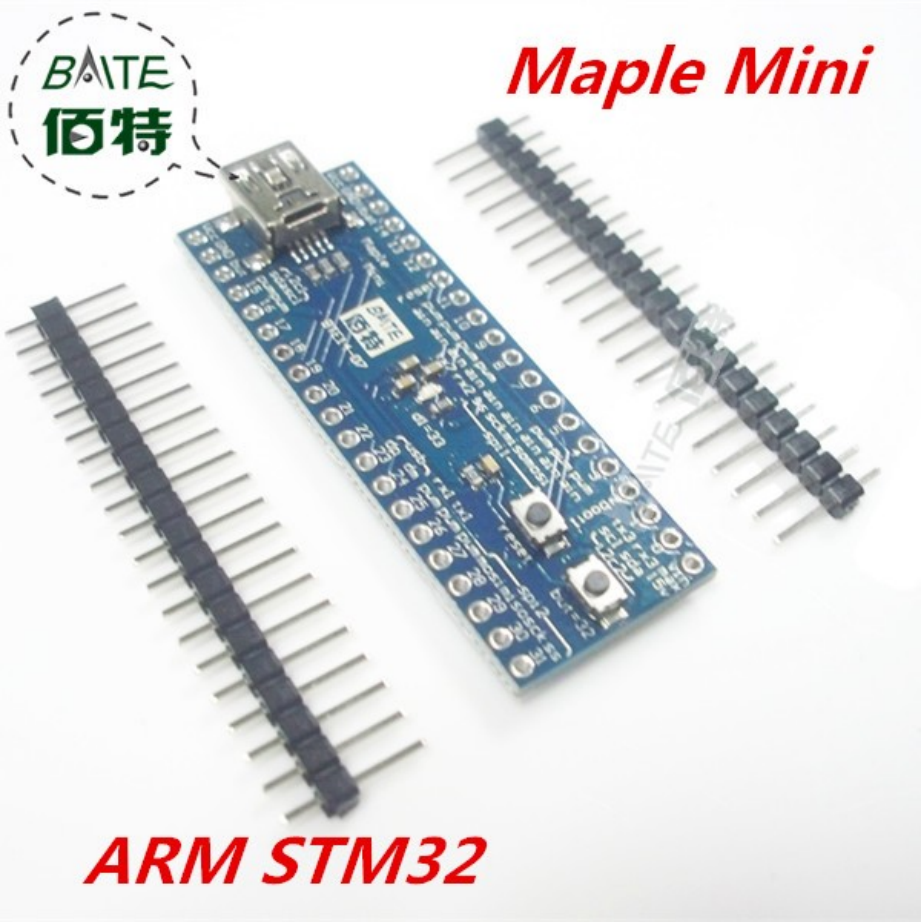
Scalabile verso il Basso





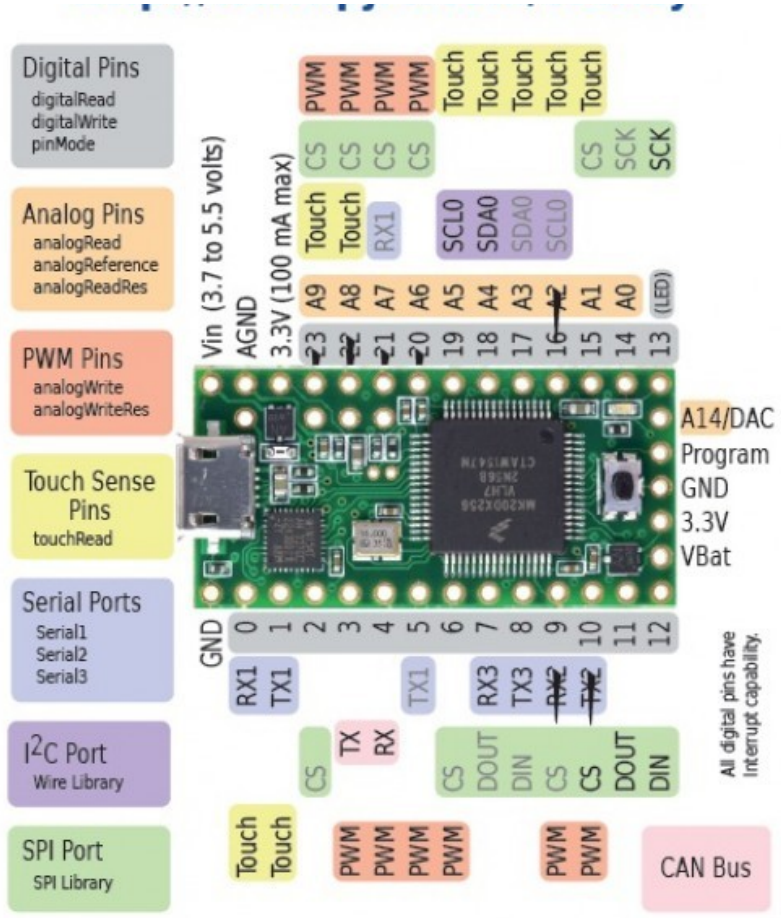
Attiny85: AVR

Scalabile verso l'alto



- Maple Mini
- Adattamento
- Arch: ARM STM32
- Cortex M0
- STM32duino
- Programmabile con codice e IDE Arduino

Design originali



- Teensey 3.1
- Scheda originale
- Teenseyduino
- Cortex M4 32 BIT
- 64K RAM invece che 16k
- 5v tollerante
- 2 analog - digital

Schede standard

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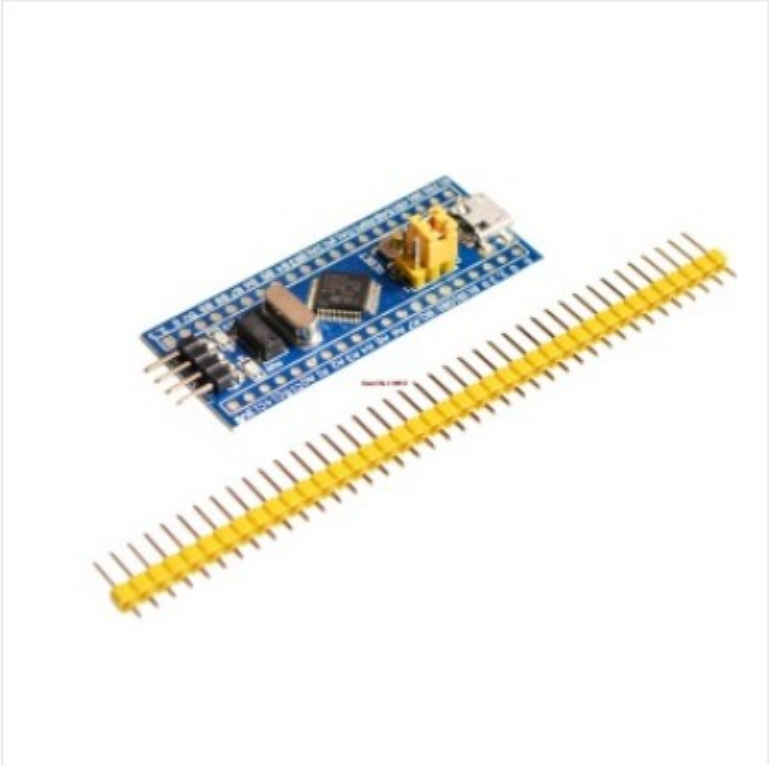

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STM32F103C8T6 ARM STM32 Minimum System

100.0% of buyers enjoyed this product! (262 votes)

Price: **€ 2,71** / piece

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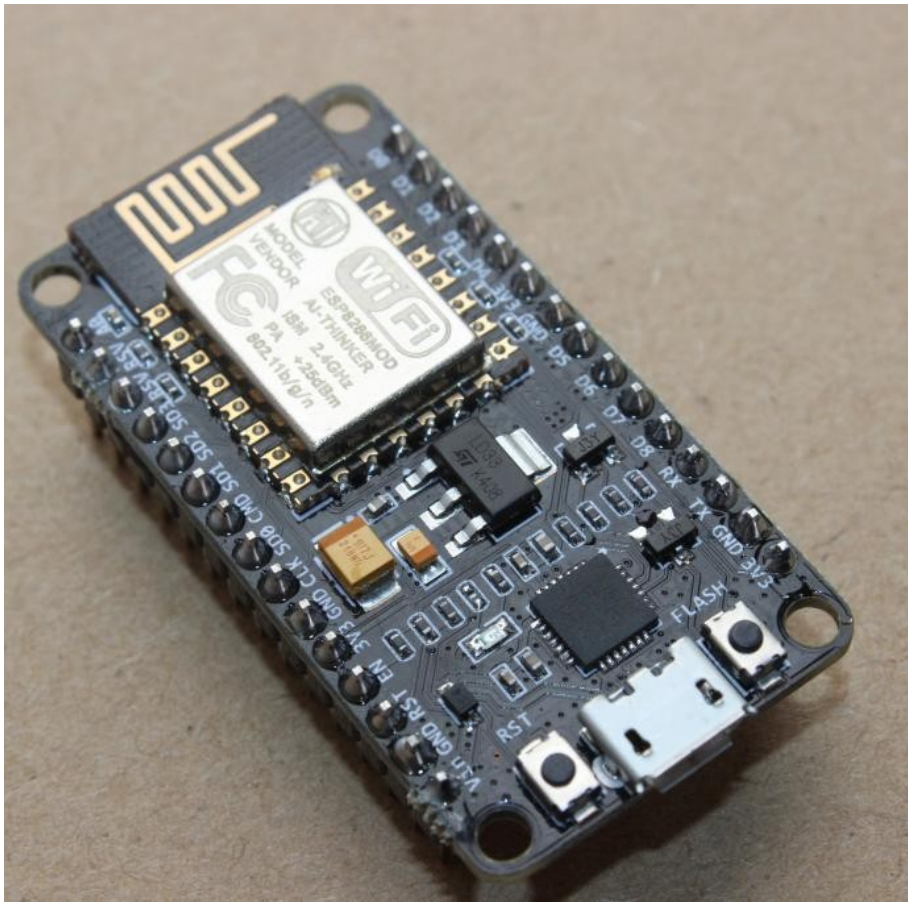
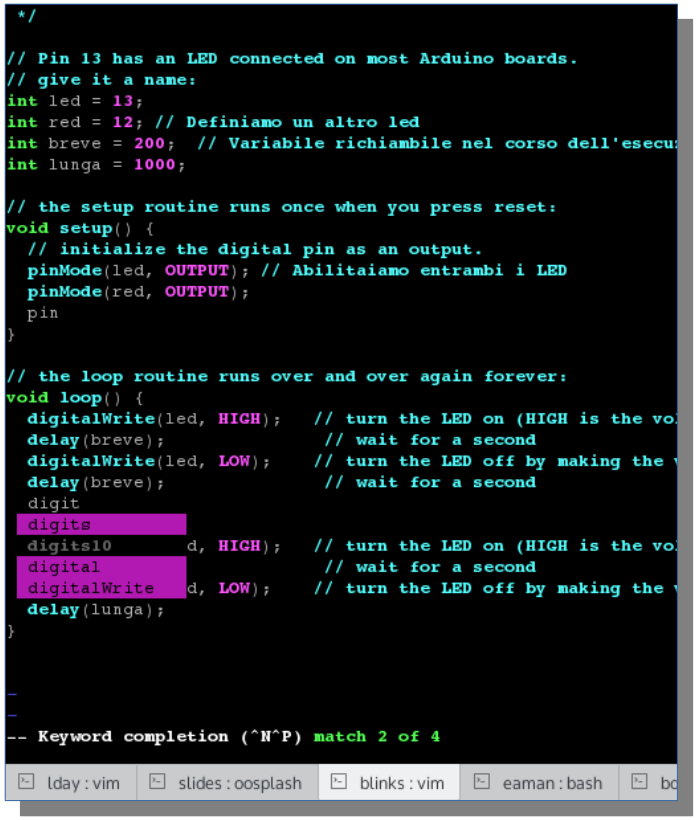
Famiglie differenti

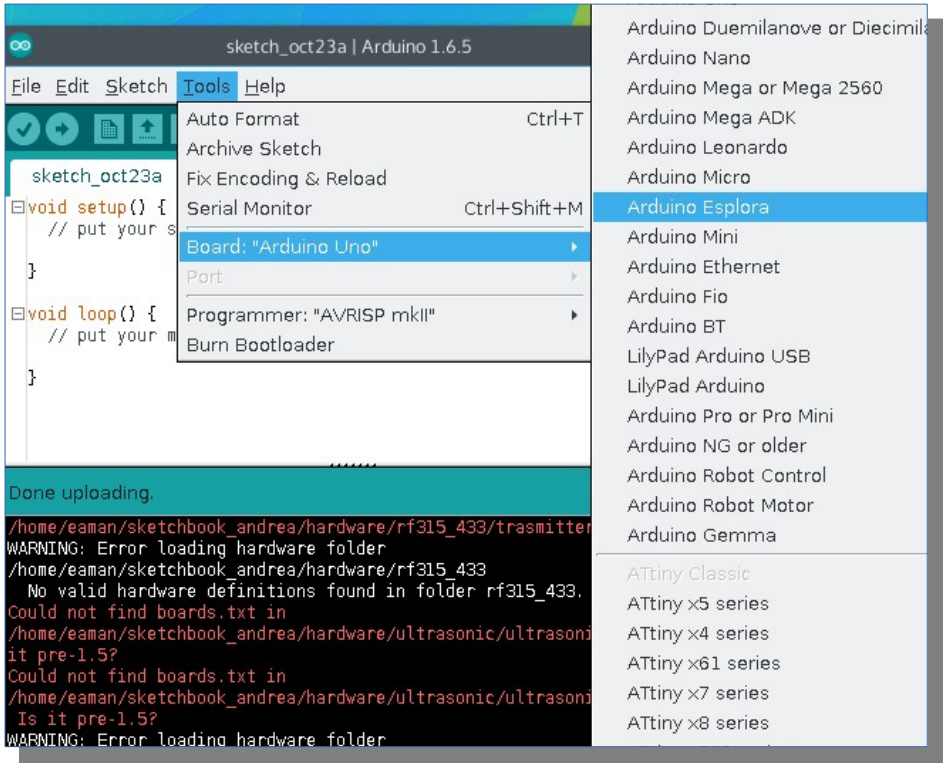


- NodeMCU
- WiFi SOC ESP8266
- TCP/IP IEEE 802.11 b/g/n Wi-Fi
- 32-bit RISC CPU
- Lua C++ Python
- Esp8266 / Arduino
- Internet of Things
- Librerie Arduino
  (in sviluppo!)

Integrated Development Enviroment



Editor

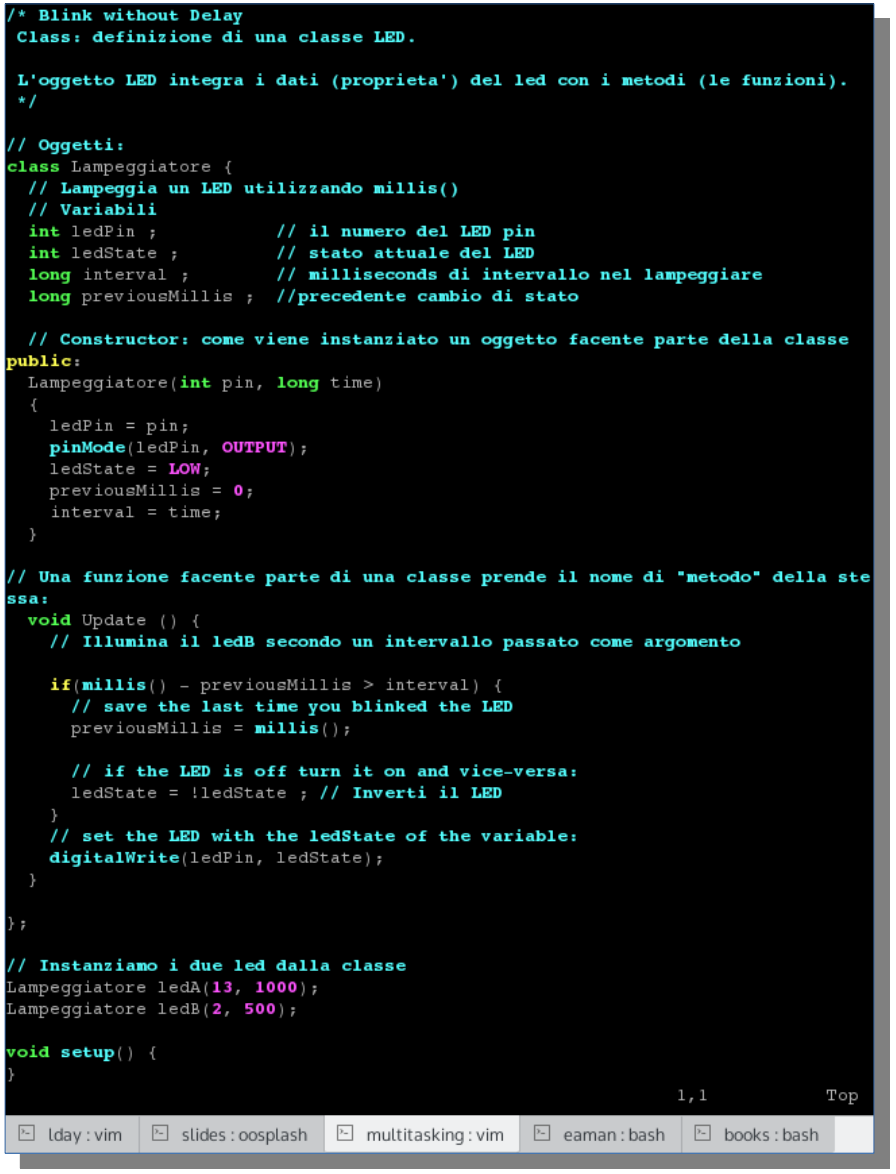


Compilazione

Compilatori

- GCC-AVR: Compilatore
- AVRDUDE: Caricare il software
- Makefile: arduino-mk
- Eventuale: Ino - Arturo

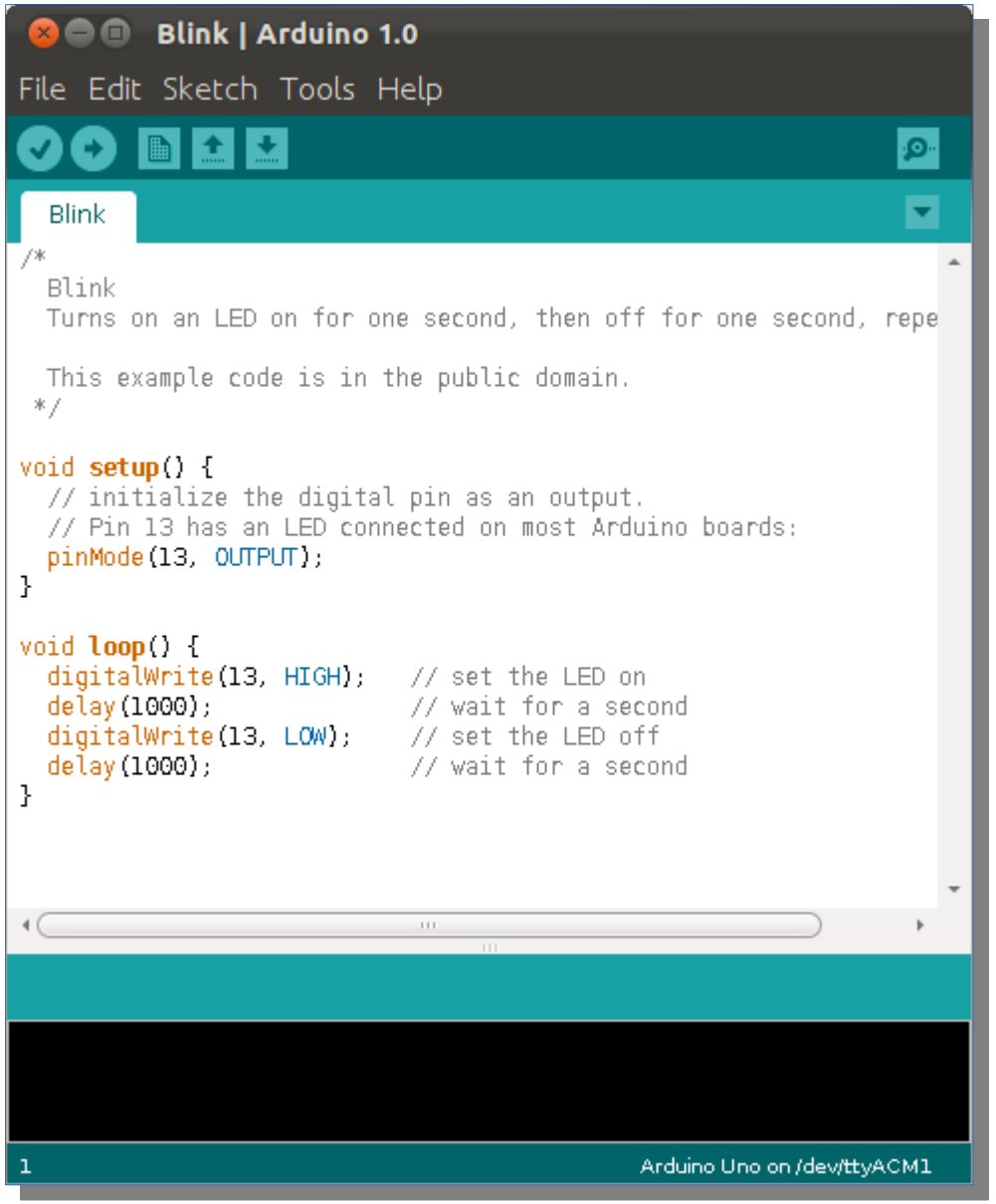
Non IDE



```
/* Blink without Delay
 Class: definizione di una classe LED.

 L'oggetto LED integra i dati (proprieta') del led con i metodi (le funzioni).
 */

// Oggetti:
class Lampeggiatore {
  // Lampeggia un LED utilizzando millis()
  // Variabili
  int ledPin ;           // il numero del LED pin
  int ledState ;         // stato attuale del LED
  long interval ;        // milliseconds di intervallo nel lampeggiare
  long previousMillis ;  //precedente cambio di stato

  // Constructor: come viene instanziato un oggetto facente parte della classe
public:
  Lampeggiatore(int pin, long time)
  {
    ledPin = pin;
    pinMode(ledPin, OUTPUT);
    ledState = LOW;
    previousMillis = 0;
    interval = time;
  }

// Una funzione facente parte di una classe prende il nome di "metodo" della ste
ssa:
  void Update () {
    // Illumina il ledB secondo un intervallo passato come argomento

    if(millis() - previousMillis > interval) {
      // save the last time you blinked the LED
      previousMillis = millis();

      // if the LED is off turn it on and vice-versa:
      ledState = !ledState ; // Inverti il LED
    }
    // set the LED with the ledState of the variable:
    digitalWrite(ledPin, ledState);
  }

};

// Instanziamo i due led dalla classe
Lampeggiatore ledA(13, 1000);
Lampeggiatore ledB(2, 500);

void setup() {
}
                                                              1,1           Top
 lday : vim | slides : oosplash | multitasking : vim | eaman : bash | books : bash
```

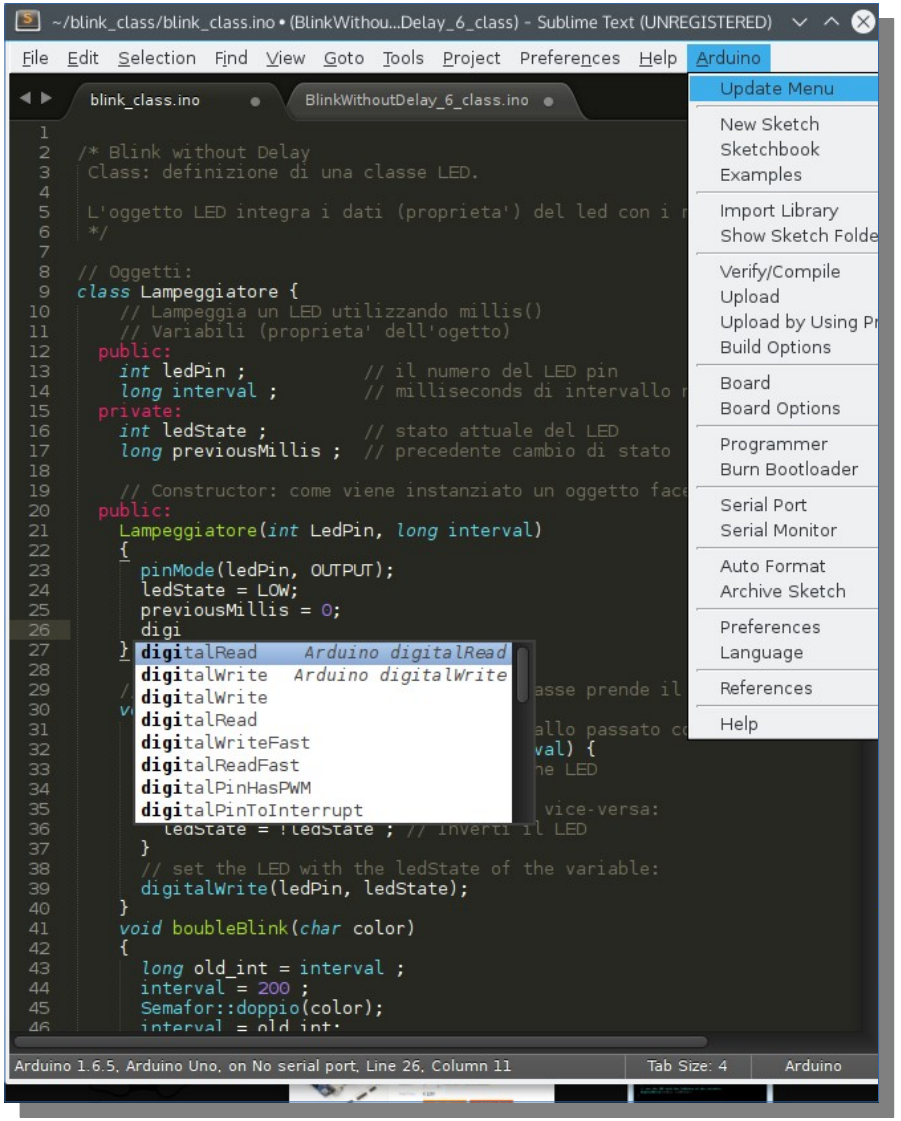
- Vim / Nano / Emacs
- Leggero
- Portabile
- Ctags
- Sintassi

Arduino Ide



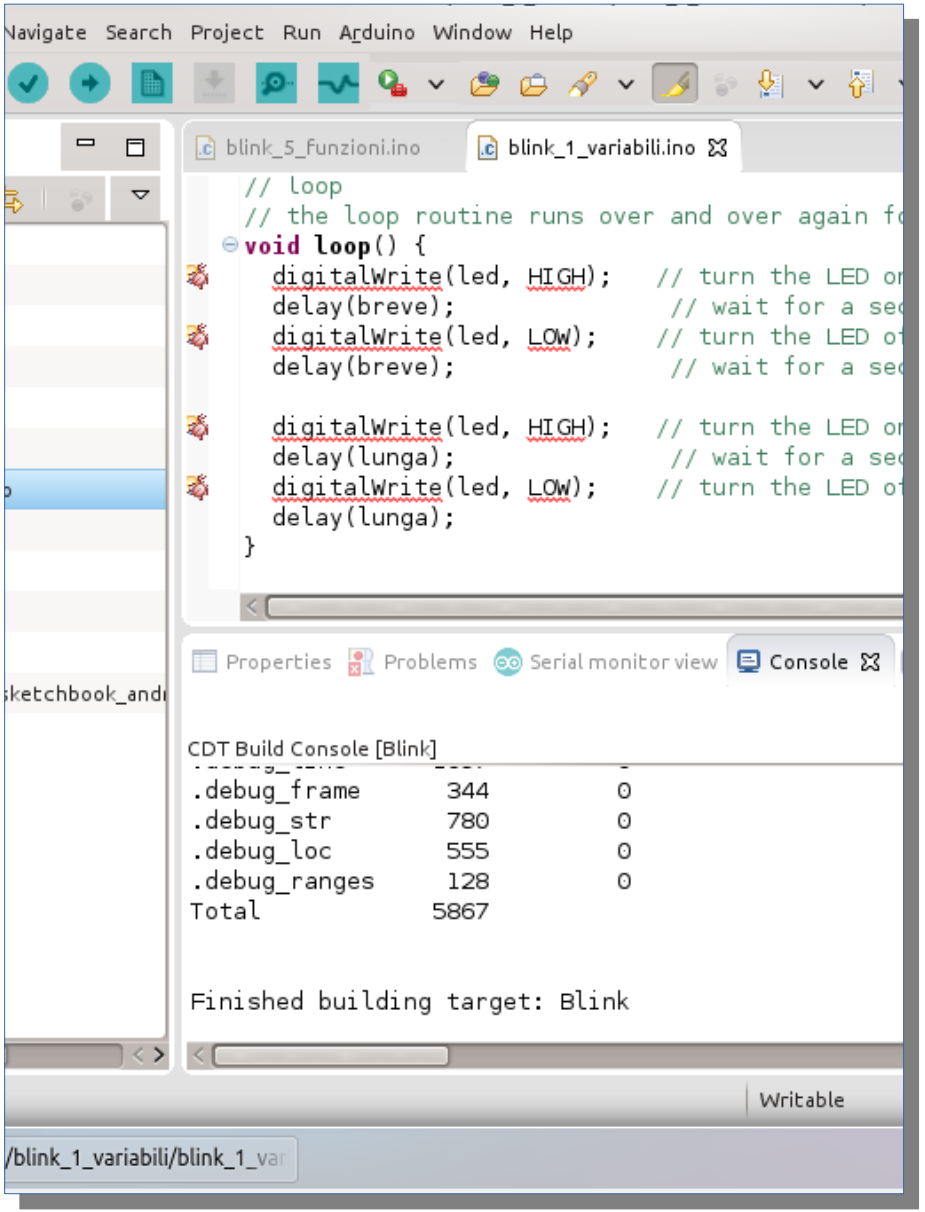
- Multipiattaforme
- Basato su Processing (Java)
- Gestisce le schede
- No completamento
- Tutto integrato
- Molto semplice

SublimeText



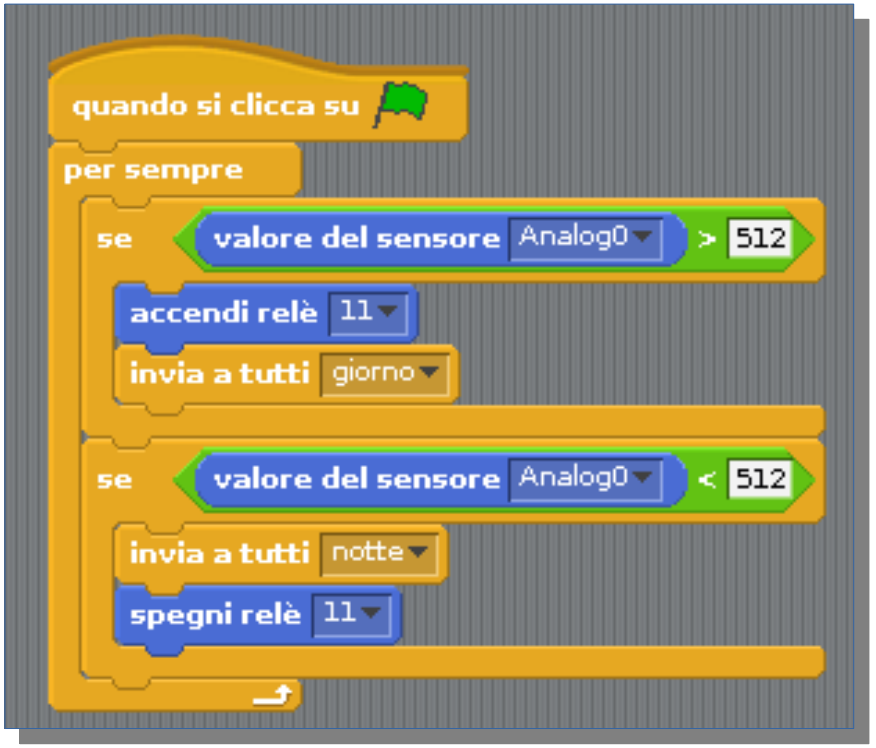
- Freeware
- Completamento automatico
- Sintassi
- Espandibile

IDE Avanzate



- Eclipse
- Plugin AVR / Arduino
- Editor completo
- Compilazione
- Upload

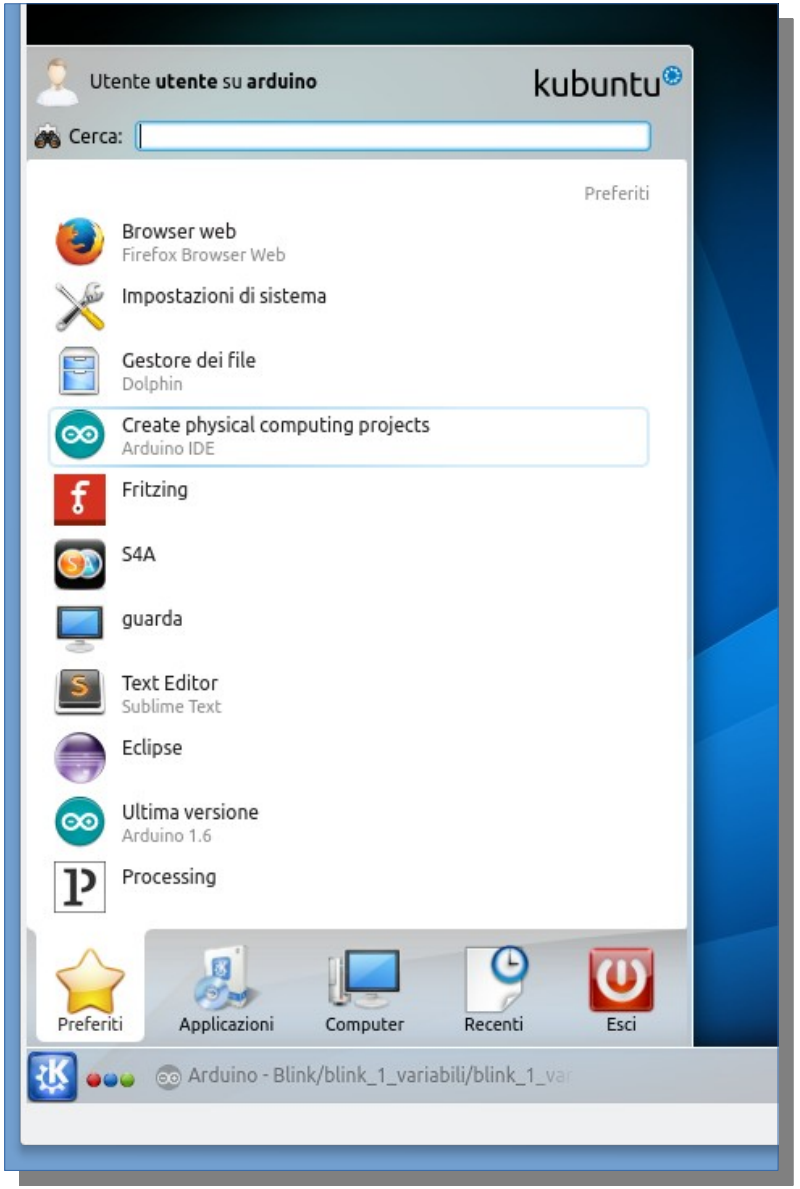
IDE per bambini



Scratch for Arduino

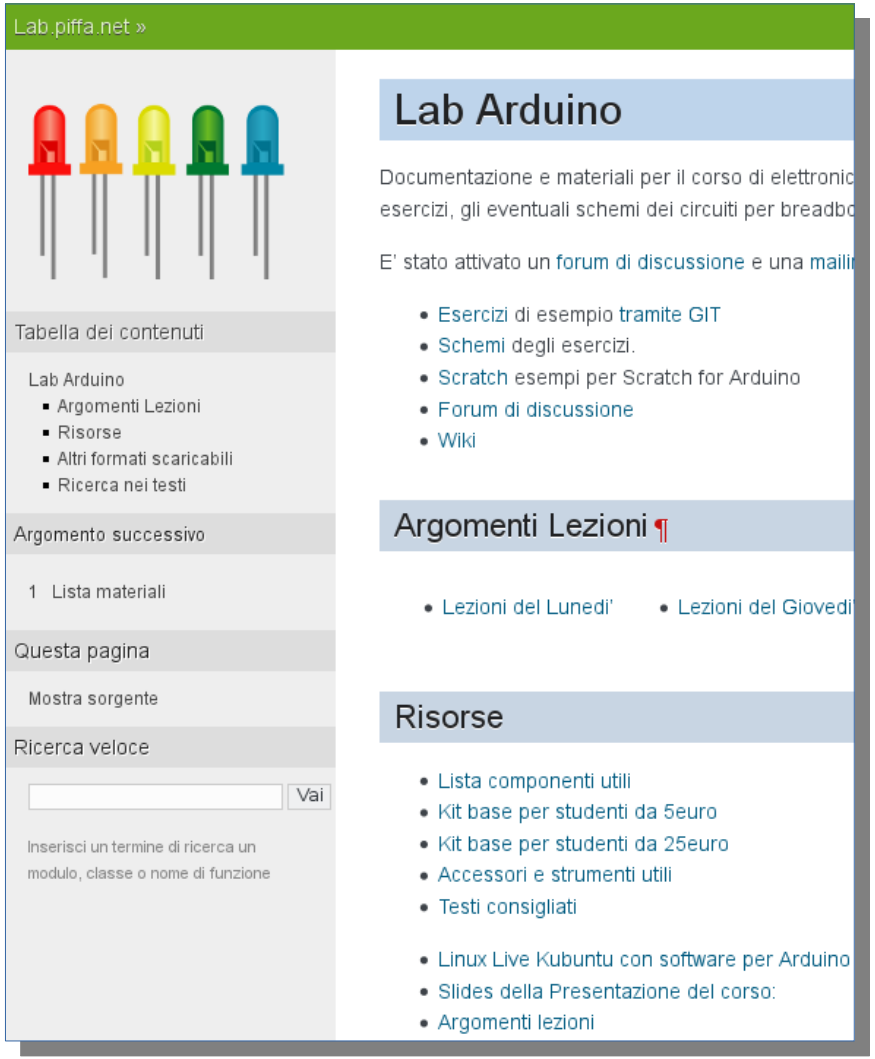
- Programmazione visuale
- Versione custom Arduino
- Dai 6 anni in su

Arduino Live



- Arduino IDE v. 1.x e 1.6
- ESPtool e NodeMCU firmware
- Sublime Text + Steno
- S4a Scratch For Arduino
- Processing:
- Eclipse for Arduino:
- Git con esempi di Andrea
- Logic Digital Analizer
- ...

http://lab.piffa.net



- Arduino Live: adatta a laboratori e corsi
- Esercizi Arduino
- Esercizi Scratch
- Forum
- Wiki
- Corsi