

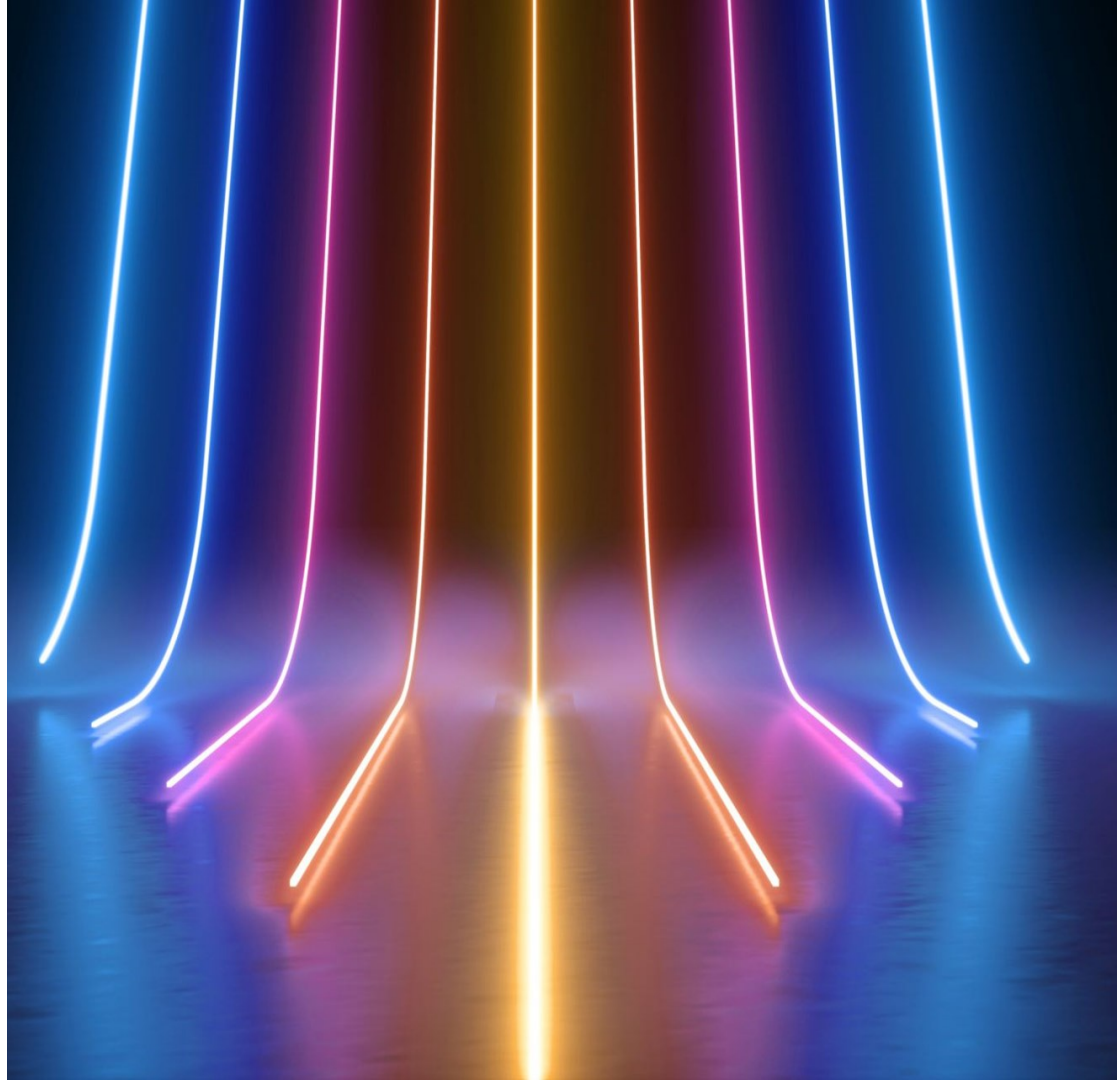


مەڭگۈتەك ئىككىنچى سىنىپ

ئۈچىنچى دەرس

دوكتور مەمەتجان ياسىن

27-01-2024



Tinkercad - Arduino نى تونۇشتۇرۇش

مەڭگۈتەك تور بىتى (ئۇيغۇرچە) <http://www.mengutech.com/tinkercad/>

English <https://wiki.nus.edu.sg/display/Arduino/Tinkercad>

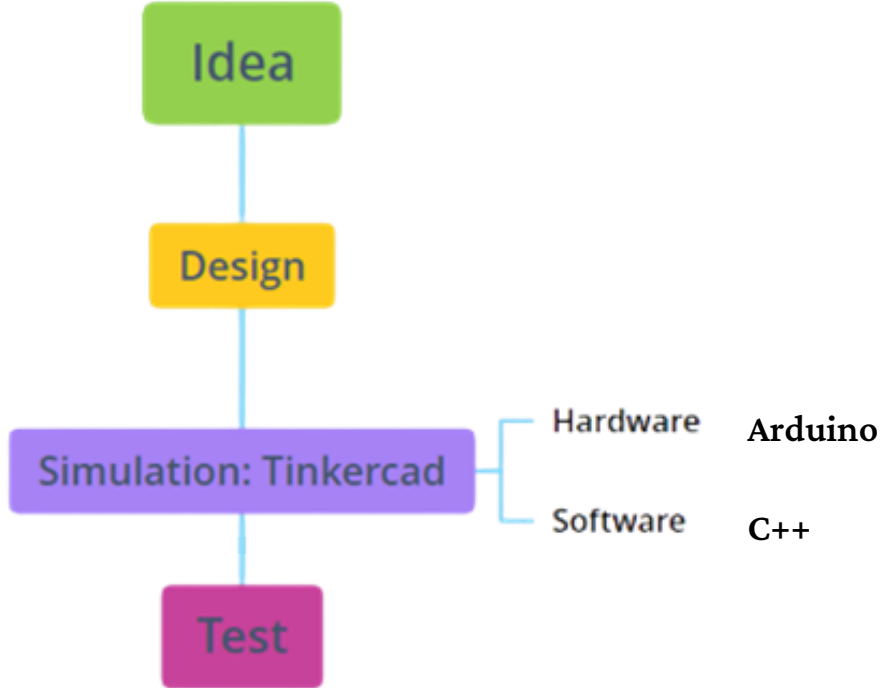
We can download/paste the prepared code (Arduino IDE) into the Arduino development environment and test it on a real Arduino board.

- تەييارلىغان كودنى (Arduino IDE) ئاردۇينو ئىجادىيەت مۇھىتى غا چۈشۈرۈپ / چاپلاپ ، ھەقىقىي ئاردۇينو تاختىسىدا سىنىيالايمىز .

دەرس قۇرۇلمىسى structure

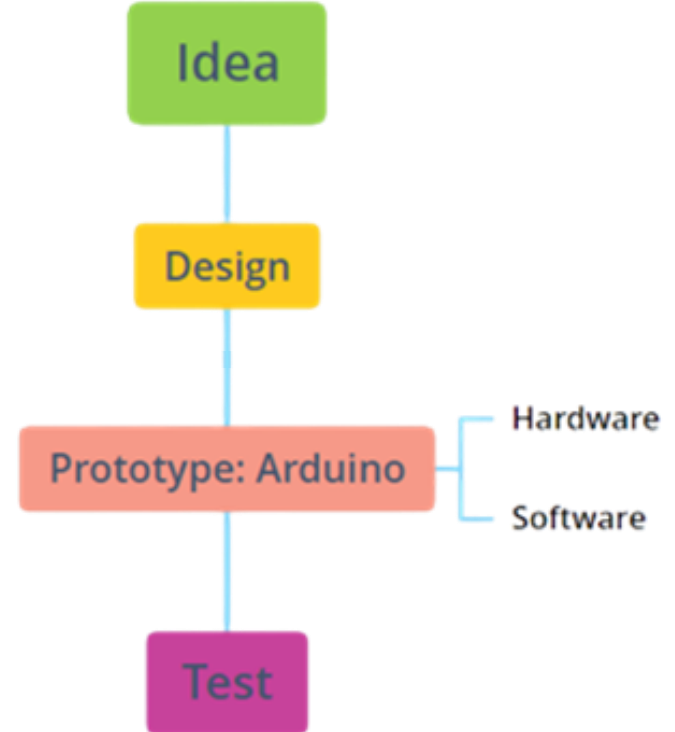
Simulation

تەقلىد قىلىش



hardware implementation

قاتتىق دېتالدا يۈرگۈزۈش



File Edit Sketch Tools Help



sketch_feb19a

```
void setup()
// put your code here

}
```

```
void loop() {
// put your code here

}
```

Auto Format Ctrl+T

Archive Sketch

Fix Encoding & Reload

Manage Libraries... Ctrl+Shift+I

Serial Monitor Ctrl+Shift+M

Serial Plotter Ctrl+Shift+L

WiFi101 / Wi-Fi NINA Firmware Updater

Board: "Arduino Mega or Mega 2560" >

Processor: "ATmega2560 (Mega 2560)" >

Port: "COM3 (Arduino Mega or Mega 2560)" >

Get Board Info

Programmer: "AVRISP mkII" >

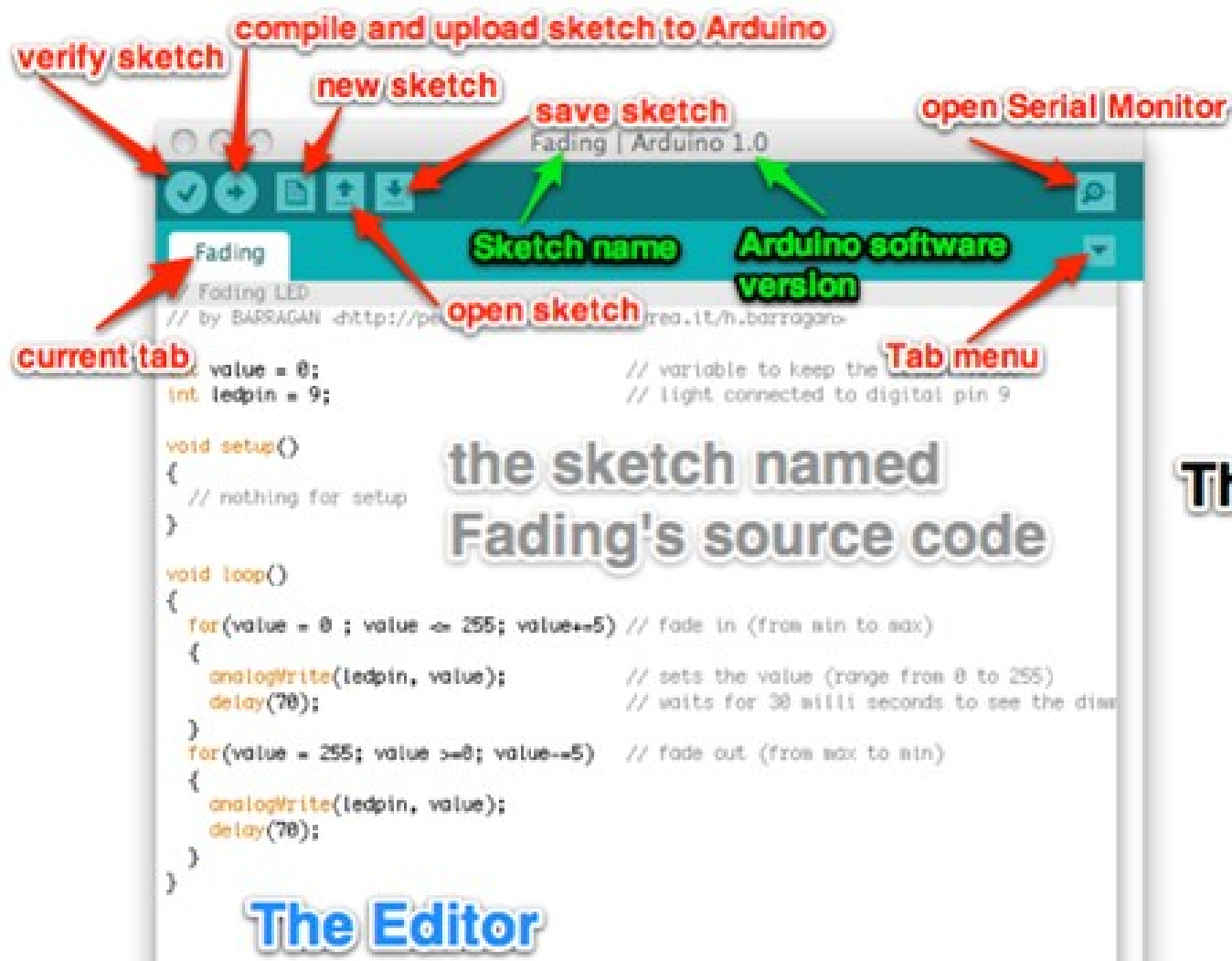
Burn Bootloader

check

تەكشۈرۈڭ

1. Board

2. Port



The Arduino IDE

sketch_may01a

ئارقىمۇمۇ ئارقا ئۇللانغان
ئىمىزنى نازارەت قىلىش
كۈنۈپكىسى

نۆۋەتتە يىزىلۋاتقان پىروگرامما
كود ھۆججىتىنى ساقلاش

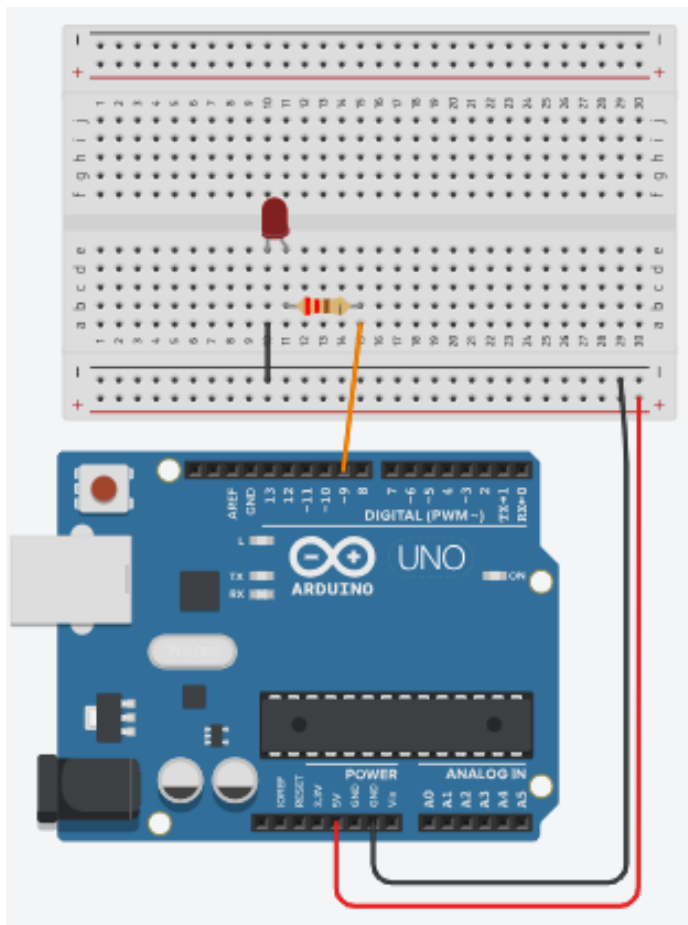
ئىلگىرى بار بولغان پىروگرامما كودنى ئىچىش

يىڭى ھۆججەت قۇرۇش كۈنۈپكىسى

پىروگراممىنى ئاردۇينوغا يوللاش كۈنۈپكىسى

پىروگراممىنى تەكشۈرۈش كۈنۈپكىسى

fading lamp - يورۇق / سۇس چىراغ

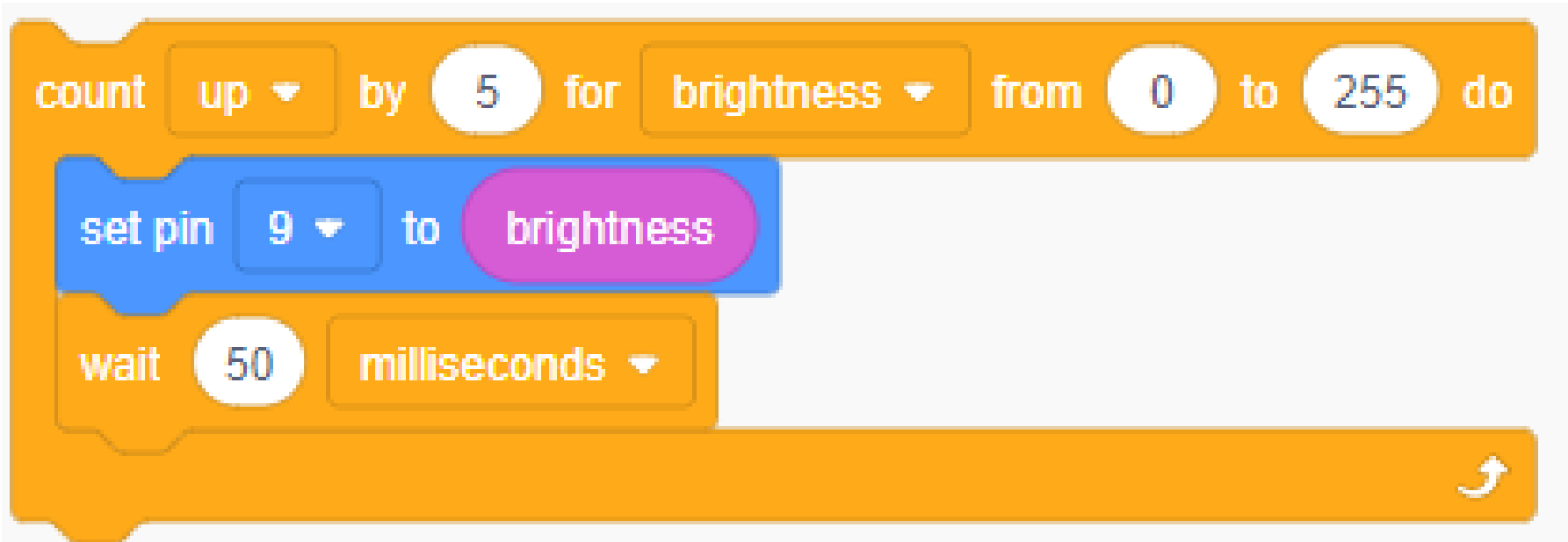


```
int brightness = 0;
int i = 0;

void setup()
{
  pinMode(9, OUTPUT);
}

void loop()
{
  for (brightness = 0; brightness <= 255; brightness += 5) {
    analogWrite(9, brightness);
    delay(50); // Wait for 50 millisecond(s)
  }
}
```

fading lamp - يورۇق / سۇس چىراغ



دەرس ماتىرىيالى ۋە ئۇلانمىلار

- تىنكىركاد سىنىپى (<https://www.tinkercad.com/joinclass/TAL58TR2C>)
- مەڭگۈتەك تور بىتى (<http://www.mengutech.com/>)
- www.mengutech.com/mengutech_second
- YouTube قانىلى (<https://www.youtube.com/channel/UCBbQ81-Lfs2xxYlr4eo5zaw>)
- ئېنگىلىزچە تور بىتى
<https://wiki.nus.edu.sg/display/Arduino/Arduino>
<https://docs.arduino.cc/learn/electronics/lcd-displays>

تۈگىدى

