Lectures on Arduino

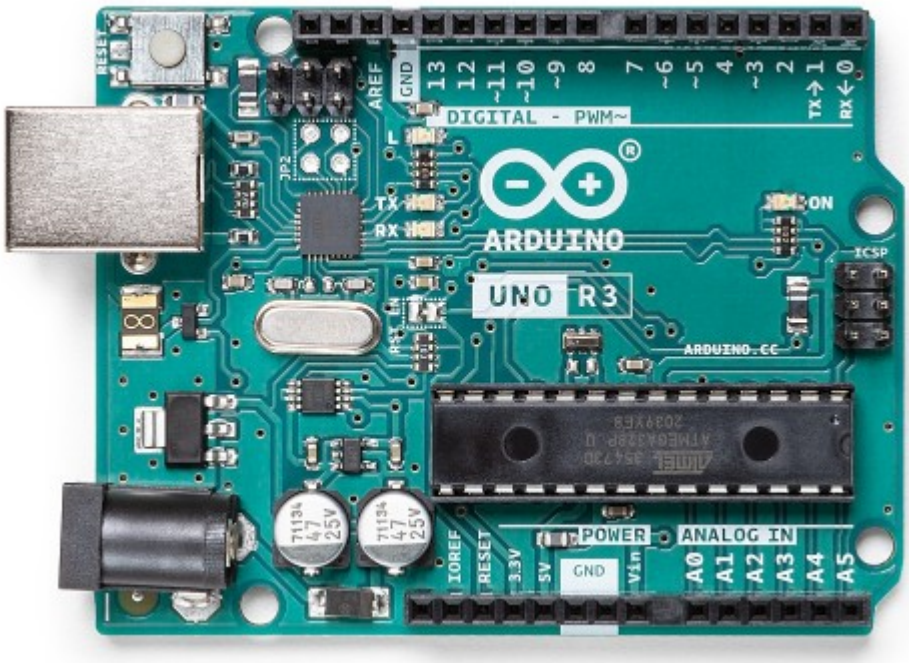
SEC B-1(Project Type)

Arduino

Arduino is a prototype platform (open-source) based on an easy-to-use hardware and software. It consists of a circuit board, which can be programed (referred to as a microcontroller) and a ready-made software called Arduino IDE (Integrated Development Environment), which is used to write and upload the computer code to the physical board.

Official Site of Arduino

Arduino Board


DIGITAL - PWM~
ARDUINO
UNO R3
ON
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POWER
ANALOG IN
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RESET
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5V
Vin
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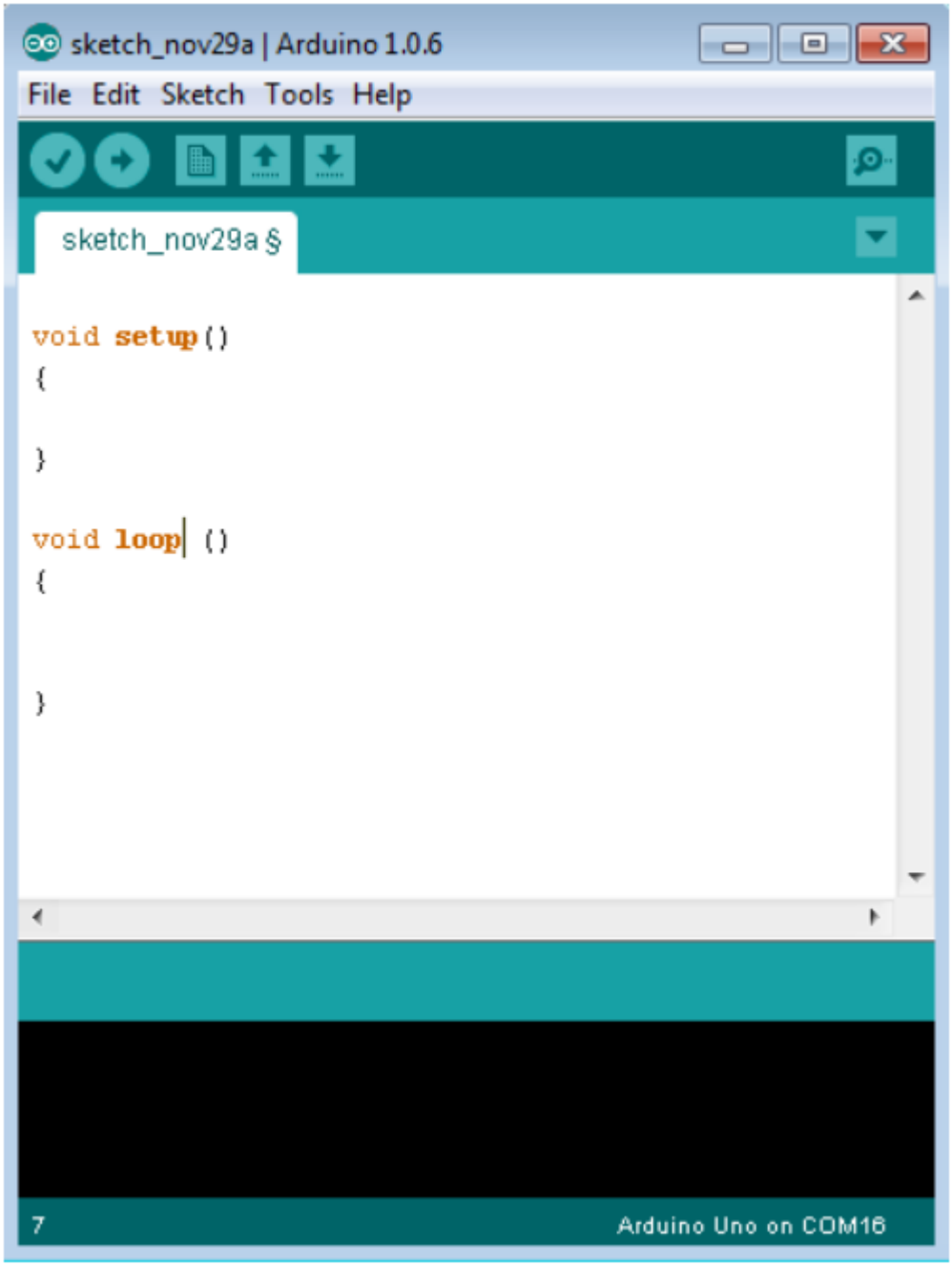
A1
A2
A3
A4
A5

IDE



Important Links

- **Official Site of Arduino**
- **Arduino Uno rev Official Documentation**
- **Lecture Notes**
- **Github Repo for the Lecture and slides**
- **TinkerCAD Circuit Simulation**

Syllabus

- **Introduction to arduino**
- **Basic Ideas**
- **Arduino Programing**

- **Interfacing**
- **Practical Projects**

Platforms we will be using

Arduino physical board is the best (Arduino Uno is the goto board) to learn arduino coding and we need a computer to compile and upload the code to Arduino. As you are new to this I prefer using a arduino simulator to practice and learn first.

We will be using tinkercad to simulate the circuit. Please try to make a free account there to seamlessly use the features. You can make an account here.

Code availability

Every code is available and opensourced in my github repo. Feel free to ask for any pull request. I am happy to help. I have also hosting an website for Arduino documentation here.

Contacts

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*email is more preferred over phone.

More

Here are some interesting projects you can check out.