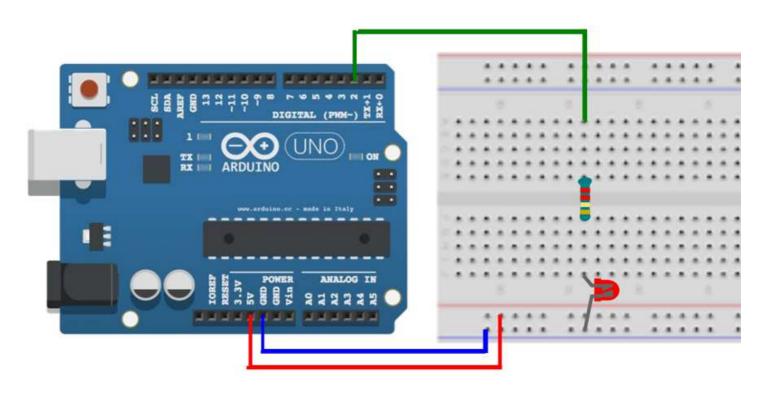
#### Hands-On Demo - LED

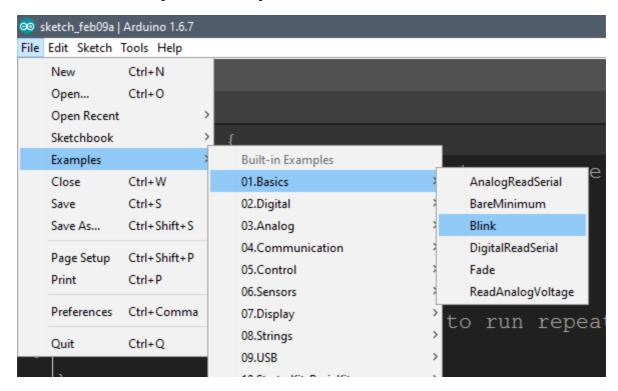


# Step 1: Connect Components



-

#### Step 2: Open Arduino IDE



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#### Step 3: Set Output Pin = 2

```
// the setup function runs once when you press reset or power the board
void setup() {
// initialize digital pin 13 as an output.
pinMode(2, OUTPUT);
}
```

```
// the loop function runs over and over again forever

void loop() {

digitalWrite(2, HIGH); // turn the LED on (HIGH is the voltage level)

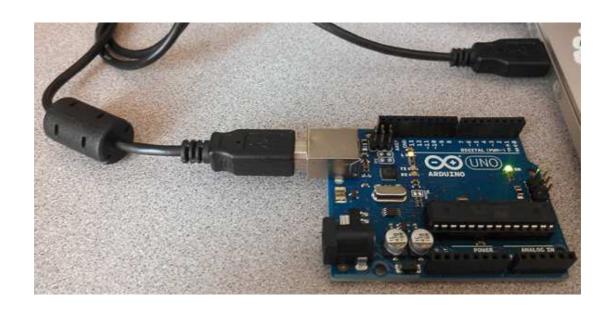
delay(1000); // wait for a second

digitalWrite(2, LOW); // turn the LED off by making the voltage LOW

delay(1000); // wait for a second

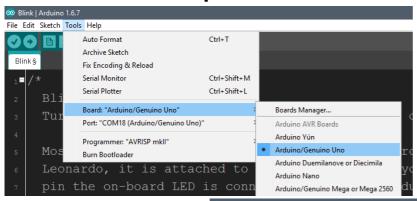
// wait for a second
```

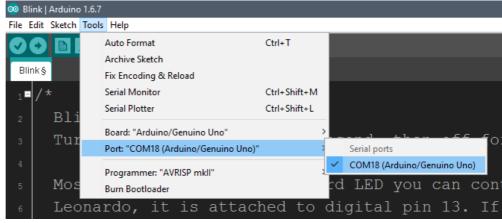
### Step 4: Connect Arduino to PC



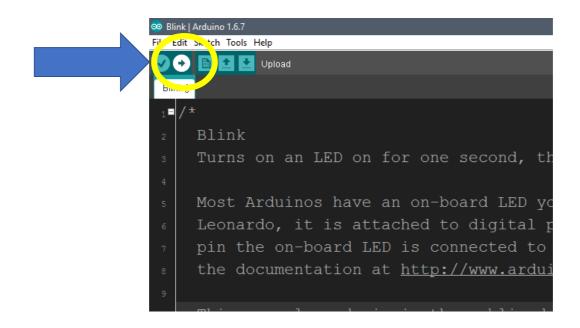
5

### Step 5: Select Board & Port



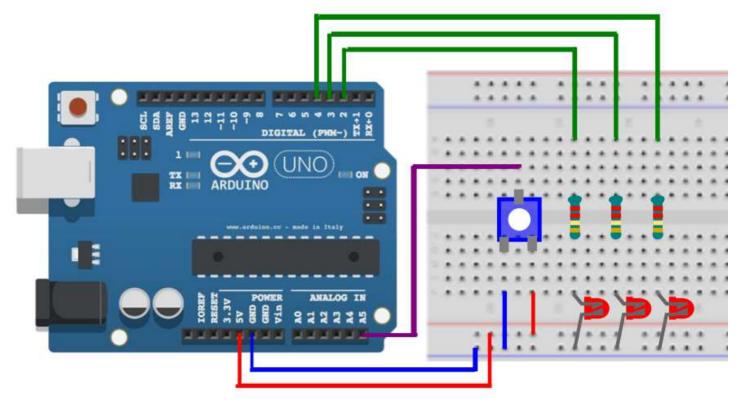


### Step 6: Upload



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## Hands-On Demo – Analog Input



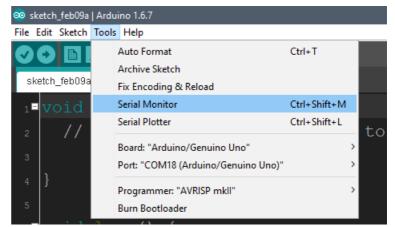
## Hands-On Demo-Analog Input

- Create a new Sketch
- Go to: github.com/wbock/Lecture4
- Copy-paste from "AnalogDemo1.ino"
- Upload to Arduino

(

#### Hands-On Demo - Communication

- Create a new Arduino Sketch
- Go to: github.com/wbock/Lecture4
- Copy-paste from "AnalogDemo2.ino"
- Upload to Arduino
- Open the Serial Monitor
- Are the values arriving?



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#### Hands-On Demo - Communication

- Create a new Processing Sketch
- Copy-paste from "CommunicationDemo.pde"
- Run sketch

