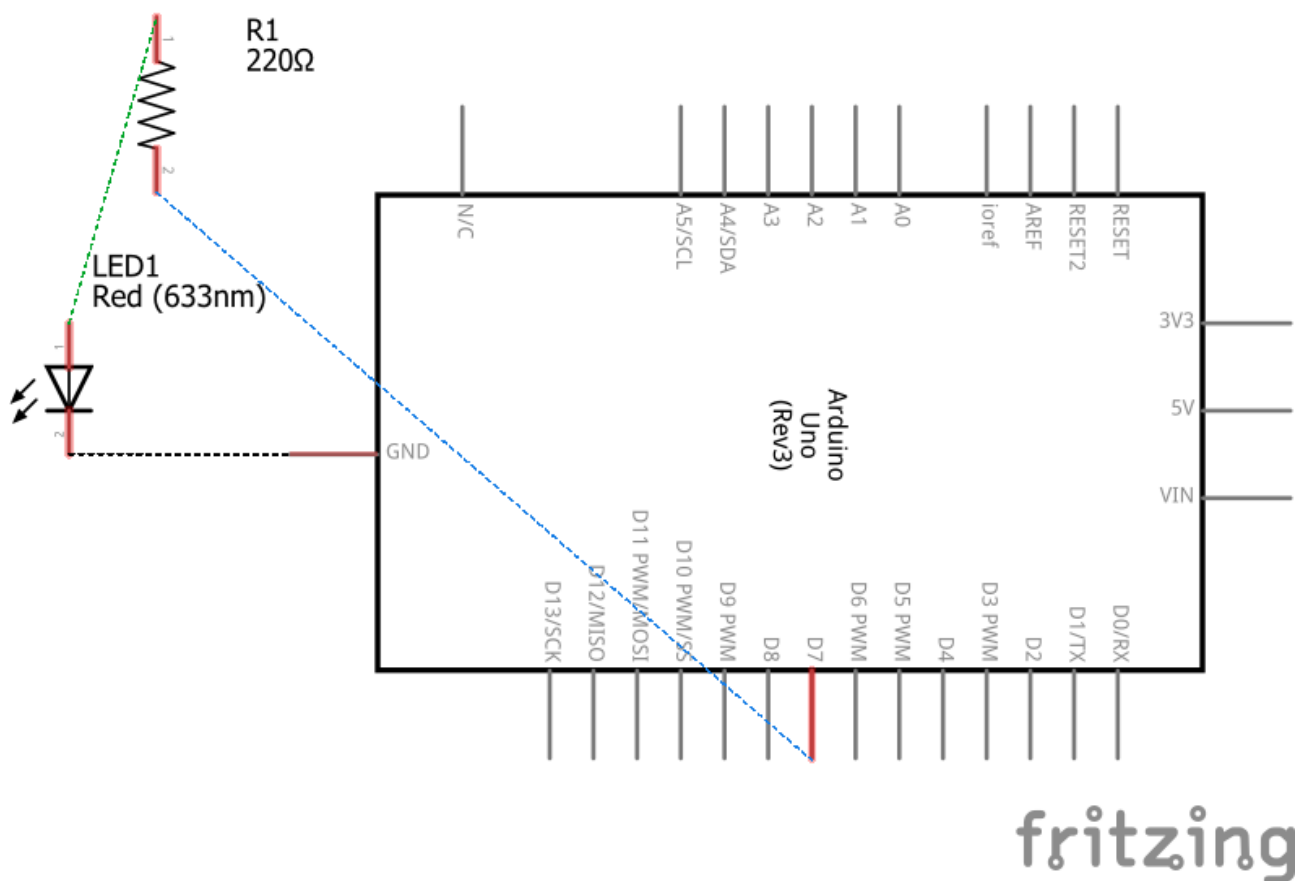


Jonne Kaajalahti
Lesson 2 raportti
Piirilevydiagrammi, A

Part1



Koodi, A

```
// the setup function runs once when you press reset or power the board
int led = 7; // led gets power from pin 7

void setup() {
  // initialize digital pin led as an output.
  pinMode(led, OUTPUT);
}

// the loop function runs over and over again forever
void loop() {
  digitalWrite(led, HIGH); // turn the LED on (HIGH is the voltage level)
  delay(650);              // wait for 650ms
  digitalWrite(led, LOW);  // turn the LED off by making the voltage LOW
  delay(150);              // wait for 150ms
  digitalWrite(led, HIGH); // turn the LED on (HIGH is the voltage level)
```

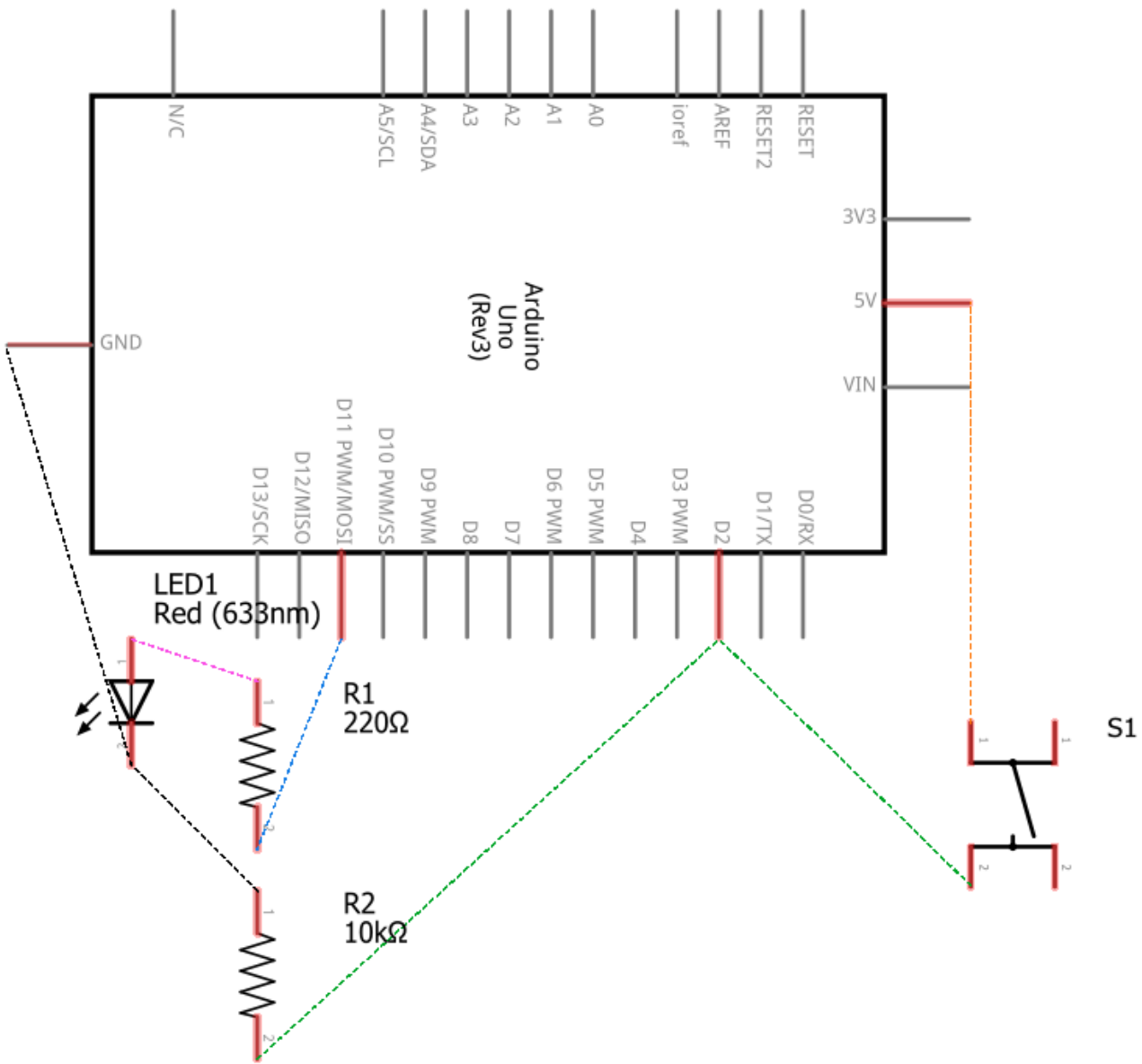
```

delay(650);           // wait for 650ms
digitalWrite(led, LOW); // turn the LED off by making the voltage LOW
delay(150);           // wait for 150ms
digitalWrite(led, HIGH); // turn the LED on (HIGH is the voltage level)
delay(650);           // wait for a second
digitalWrite(led, LOW); // turn the LED off by making the voltage LOW
delay(150);           // wait for 150ms

digitalWrite(led, HIGH); // turn the LED on (HIGH is the voltage level)
delay(1200);             // wait for 1,2 seconds
digitalWrite(led, LOW);  // turn the LED off by making the voltage LOW
delay(150);             // wait for 150ms
digitalWrite(led, HIGH); // turn the LED on (HIGH is the voltage level)
delay(1200);             // wait for 1,2 seconds
digitalWrite(led, LOW);  // turn the LED off by making the voltage LOW
delay(150);             // wait for 150ms
digitalWrite(led, HIGH); // turn the LED on (HIGH is the voltage level)
delay(650);             // wait for 650ms
digitalWrite(led, LOW);  // turn the LED off by making the voltage LOW
delay(150);             // wait for 150ms
digitalWrite(led, HIGH); // turn the LED on (HIGH is the voltage level)
delay(650);             // wait for 650ms
digitalWrite(led, LOW);  // turn the LED off by making the voltage LOW
delay(2000);            // wait for 2 seconds before starting the loop again
}

```

Testasimme SOS morsekoodin toimivuutta eri viiveillä.



fritzing

Koodi, B

```
void setup() {
  // initialize the LED pin as an output:
  pinMode(led, OUTPUT);
  // initialize the pushbutton pin as an input:
  pinMode(buttonPin, INPUT);
}

void loop() {
  // read the state of the pushbutton value:
  buttonState = digitalRead(buttonPin);

  // check if the pushbutton is pressed.
  // if it is, the buttonState is HIGH:
  if (buttonState == HIGH) {
    digitalWrite(led, HIGH); // turn the LED on (HIGH is the voltage level)
    delay(650);              // wait for 650ms
    digitalWrite(led, LOW);  // turn the LED off by making the voltage LOW
    delay(150);              // wait for 150ms
    digitalWrite(led, HIGH); // turn the LED on (HIGH is the voltage level)
    delay(650);              // wait for 650ms
    digitalWrite(led, LOW);  // turn the LED off by making the voltage LOW
    delay(150);              // wait for 150ms
    digitalWrite(led, HIGH); // turn the LED on (HIGH is the voltage level)
    delay(650);              // wait for a second
    digitalWrite(led, LOW);  // turn the LED off by making the voltage LOW
    delay(150);              // wait for 150ms

    digitalWrite(led, HIGH); // turn the LED on (HIGH is the voltage level)
    delay(1200);              // wait for 1,2 seconds
    digitalWrite(led, LOW);  // turn the LED off by making the voltage LOW
    delay(150);              // wait for 150ms
    digitalWrite(led, HIGH); // turn the LED on (HIGH is the voltage level)
    delay(1200);              // wait for 1,2 seconds
    digitalWrite(led, LOW);  // turn the LED off by making the voltage LOW
    delay(150);              // wait for 150ms
    digitalWrite(led, HIGH); // turn the LED on (HIGH is the voltage level)
    delay(1200);              // wait for 1,2 seconds
    digitalWrite(led, LOW);  // turn the LED off by making the voltage LOW
    delay(150);              // wait for 150ms

    digitalWrite(led, HIGH); // turn the LED on (HIGH is the voltage level)
    delay(650);              // wait for 650ms
    digitalWrite(led, LOW);  // turn the LED off by making the voltage LOW
    delay(150);              // wait for 150ms
    digitalWrite(led, HIGH); // turn the LED on (HIGH is the voltage level)
    delay(650);              // wait for 650ms
  }
}
```

```
    digitalWrite(led, LOW);    // turn the LED off by making the voltage LOW
    delay(150);                // wait for 150ms
    digitalWrite(led, HIGH);   // turn the LED on (HIGH is the voltage level)
    delay(650);                // wait for 650ms
    digitalWrite(led, LOW);    // turn the LED off by making the voltage LOW
                                // wait for 2 seconds before starting the loop again
n
} else {
    digitalWrite(led, LOW);    // turn LED off
}
}
```

SOS -morsekoodi lähti pyörimään napin painalluksella, napin uudelleen painaminen ei aloita ohjelmaa alusta ennen, kuin aikaisempi suoritus on päättynyt.