

~/Documents/Arduino/Audio_Blink/Audio_Blink.ino

```
/*
  Blink LEDs and Make Tone
  Turns on an on-board LED for 200ms, then off for 200ms, repeatedly.
  Turns on an off-board LED connected to pin 10 for 200ms, then off for 200ms,
  repeatedly.
  Makes a 250Hz tone on pin 2.
  */

// Define pins
int onboard_led = 13;
int external_led = 10;
int speaker_pin = 2;

// Define speaker settings
const int freq = 250; // frequency of speaker tone in Hz

// Setup
void setup() {
  pinMode(onboard_led, OUTPUT);
  pinMode(external_led, OUTPUT);
  pinMode(speaker_pin, OUTPUT);
}

// Loop
void loop() {
  // Turn both LEDs on
  digitalWrite(onboard_led, HIGH);
  digitalWrite(external_led, HIGH);
  delay(200);

  // Turn both LEDs off
  digitalWrite(onboard_led, LOW);
  digitalWrite(external_led, LOW);
  delay(200);

  // Emit a 250Hz tone continuously without interrupting LED blinking
  tone(speaker_pin, freq);
}
```