



PROGRAMMING ADVANCED FEEDBACK WITH ARDUINO

PREREQUISITES:

- You have a tiny bit of Arduino experience
- You are familiar with '`void setup()`' and '`void loop()`' code structure
- You know how to make LED blink
- you know about `digitalRead()` and `analogRead()`

TO REFRESH YOUR ARDUINO SKILLS:



[https://www.youtube.com/channel/
UCDGAg1pqcy8IScMqHHTy9Gg](https://www.youtube.com/channel/UCDGAg1pqcy8IScMqHHTy9Gg)

GOALS OF THIS CLASS:

- Create beautiful and **expressive feedbacks**
- Learn how to design **custom LED animations**
- Control sensor and actuators **asynchronously**
- Using **state machine diagrams** to sketch and structure your Arduino code.

THE POMODORO TECHNIQUE



THE POMODORO TIMER PAPER KIT



READY TO START?



Download the class resources here.

**[https://github.com/id-studiolab/
pomodoro/releases/latest](https://github.com/id-studiolab/pomodoro/releases/latest)**

CHECKLIST:

- ❑ Download the resources folder
- ❑ Download and install the Arduino IDE from here <https://www.arduino.cc/en/Main/Software>
- ❑ Assemble the pomodoro timer box
- ❑ Install the Seeduino Lotus driver v1.1 as described here http://wiki.seeedstudio.com/Seeeduino_Lotus/
- ❑ Add the Seeduino boards to your Arduino IDE as described here http://wiki.seeedstudio.com/Seeed_Arduino_Boards/