

IOREF
RESET
3.3V
5V
GND
GND
Vin

A0
A1
A2
A3
A4
A5

WWW.ARDUINO.CC - MADE IN ITALY

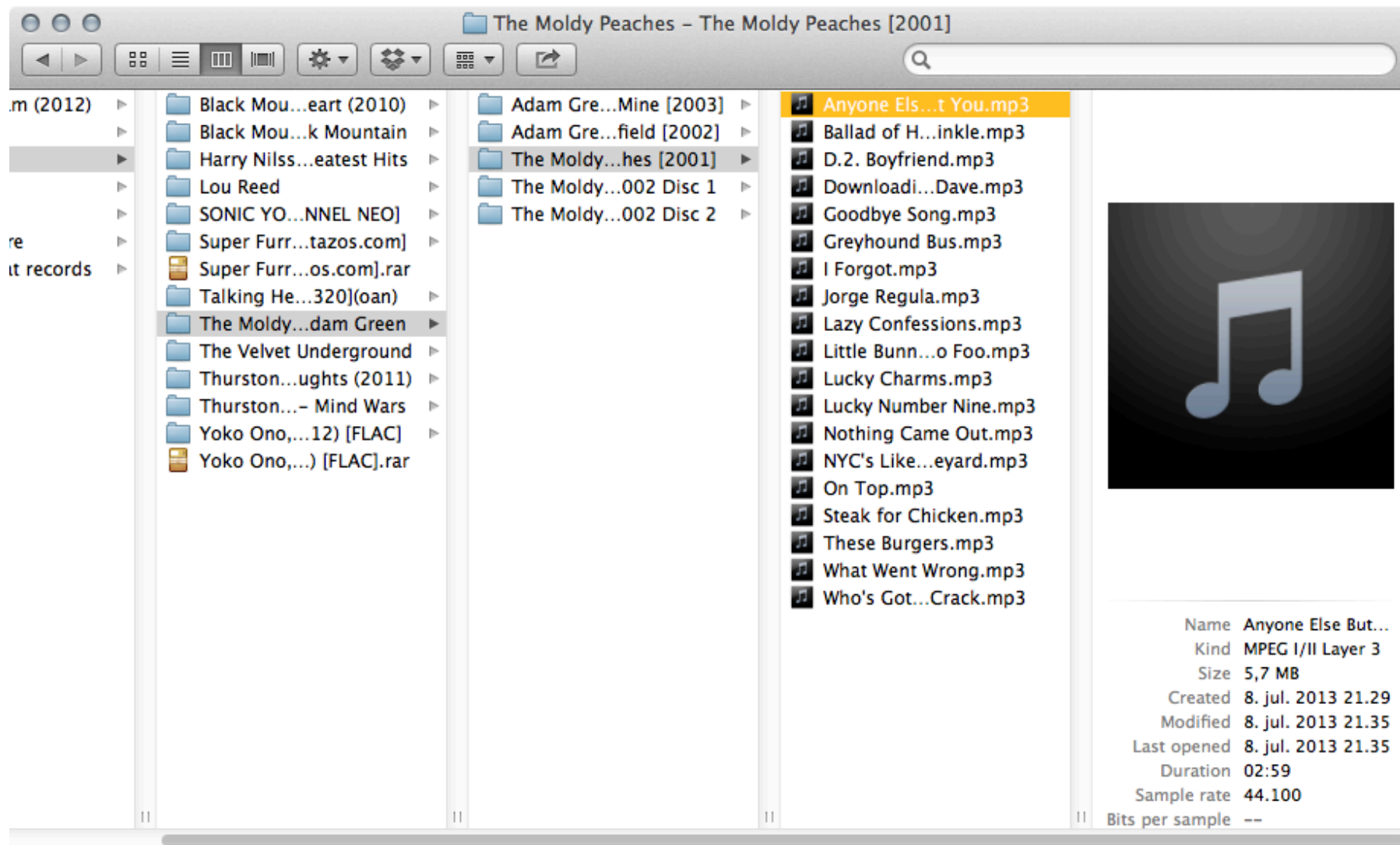
ARDUINO
UNO

DIGITAL (PWM ~)
TX→1
RX←0

AREF
GND
13
12
~11
~10
~9
8
7
6
5
4
3
2
1

Summary

Microcontroller	ATmega328
Operating Voltage	5V
Input Voltage (recommended)	7-12V
Input Voltage (limits)	6-20V
Digital I/O Pins	14 (of which 6 provide PWM output)
Analog Input Pins	6
DC Current per I/O Pin	40 mA
DC Current for 3.3V Pin	50 mA
Flash Memory	32 KB (ATmega328) of which 0.5 KB used by bootloader
SRAM	2 KB (ATmega328)
EEPROM	1 KB (ATmega328)
Clock Speed	16 MHz



shields

shields are boards that can be plugged on top of the arduino PCB extending its capabilities.





processing

processing is a programming language, development environment, and online community. since 2001, processing has promoted software literacy within the visual arts and visual literacy within technology. initially created to serve as a software sketchbook and to teach computer programming fundamentals within a visual context, processing evolved into a development tool for professionals. today, there are tens of thousands of students, artists, designers, researchers, and hobbyists who use processing for learning, prototyping, and production.

arduino integration: firmata

firmata.org

android prototyping: ketai

<https://code.google.com/p/ketai/>