Arduino Intervalometer





Why?

• Fun! Learn! Kits?!

and...

Why?







450\$ (75\$ = LCD backlight!)

WHAT!?!

Beginnings: Specs!

- What do you want?What *might* you want?How *might* you pull it off?
- Sit down at a piece of paper and figure it out...
- Sleep.
- Repeat!

• Version control. Right. Now.

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Parts!

- Interface
 - Encoder
 - LCD
 - Buttons
 - 1/8" jacks
 - RGB Status LED
- Supporting Logic
 - Shift Register
 - Digital Potentiometer
 - Trigger Timer

-{• Status LED • Timer duration • LCD Contrast

Parts!





On to the 'how'...

- Separate problem into segments, construct each segment individually:
 - Write the required code
 - Keep it small and reusable
 - Diagram the circuit (on paper!)





Arduino



ATmega168

- 20 I/O (6 PWM, 6 ADC)
- 16 KB program memory
- Free GCC backend
- 5 volts
- 16 MHz
- 4\$ apiece

EAGLE



gnore LCD pins 7-10 (counting from 1 on the contrast side)





