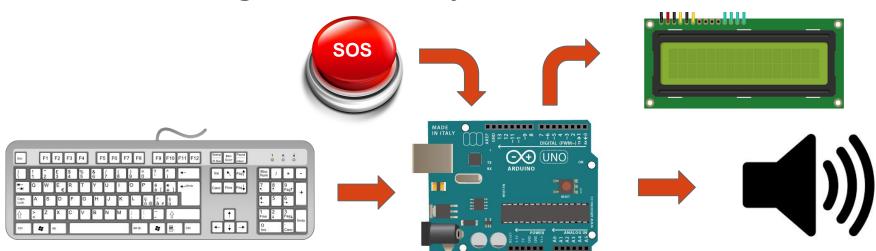
Morse Click

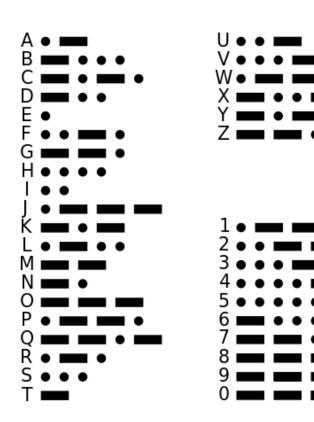
--- --- ---

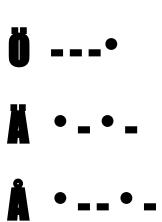
Functions

- Convert PS/2 Keyboard clicks into morse code
- Send whole statement to morse code after Click Enter
- send SOS Signal without keyboard



Morse Code





Features

LCD screen

Change Morse mode with Page Up / Page Down

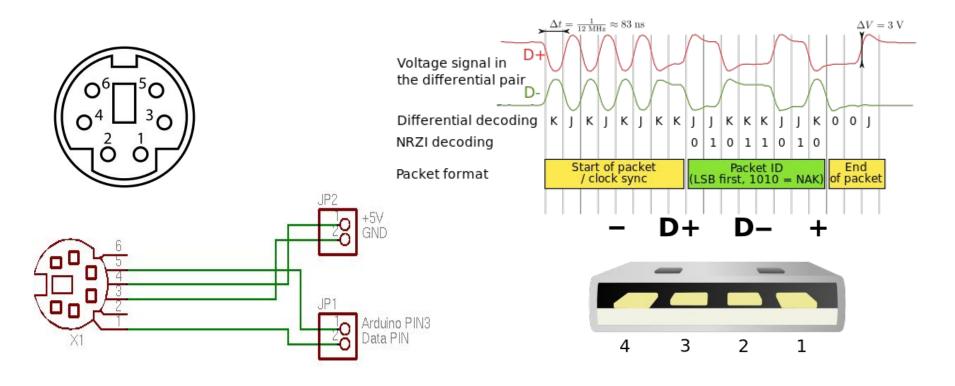
Change the phase period Arrow Up / Arrow Down

Change the tone frequency Arrow Left / Arrow Right

One button two functions: one click for STOP

5 second hold for SOS

challenges PS/2 vs USB



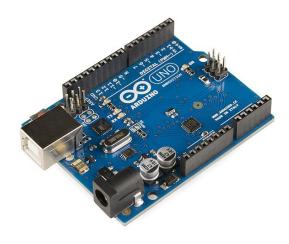
challenges PS/2 vs USB



USB Host Shield 350:- SEK







Arduino Board 215:- SEK

challenges: Support Ö Ä Å

LCD does not support special latin letters by default

CreateChar

```
byte 00[8] = { //Ö
    B10001,
    B00000,
    B01110,
    B10001,
    B10001,
    B01110,
};

lcd.createChar(2, 00); //Ö
```

challenges: Buzzer interfere the LCD

For some reason the Buzzer (small speaker) was interfere the LCD

Solution:

connect 220 resistance and avoid long cable

or

locate the buzzer far from the LCD

challenges: Only 2 interruptible pins

Arduino UNO has only 2 interruptible pins 2 & 3

Pin 3 is already used for PS/2 Keyboard.

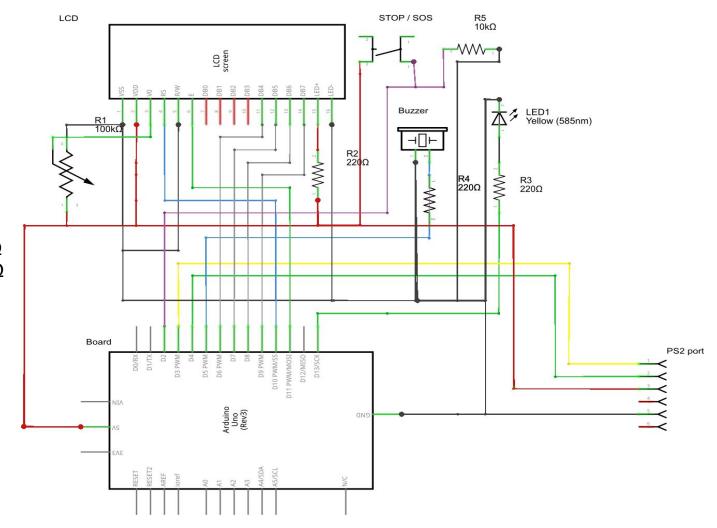
Pin 2 used for one buttons used for 2 functions: STOP and SOS

quick push for STOP, Hold for 5 sec for SOS

Schema

Material

- 1. Arduino UNO
- 2. LCD 16x2
- 3. 3x Resistance 220Ω
- 4. 1x Resistance $10K\Omega$
- 5. PS/2 female port
- 6. 30 lines breadboard
- 7. Buzzer
- 8. LED
- 9. Push Button
- 10. Potentiometer
- 11. PS/2 Keyboard





Q & A

