

# ANALOG TO DIGITAL AND BACK AGAIN

## FLOW CHART

Morse code starts DC motor record player or 8 bit music

Morse code is received through pushbutton on breadboard

Morse code is decoded by sketch and displayed in serial monitor in IDE

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Once code sequence spells command i.e. "play"

DC motor powers on and music plays

or

Piezo speaker plays 8-bit music

### International Morse Code

- 1 dash = 3 dots.
- The space between parts of the same letter = 1 dot.
- The space between letters = 3 dots.
- The space between words = 7 dots.

|   |         |   |               |
|---|---------|---|---------------|
| A | • —     | V | • • • —       |
| B | — • • • | W | — • —         |
| C | — • • — | X | — • • —       |
| D | — • •   | Y | — • • —       |
| E | •       | Z | — — • •       |
| F | • • — • | . | • • • — • • — |
| G | — — •   | , | — • • • — • — |
| H | • • • • | ? | • • — • • •   |
| I | • •     | / | — • • •       |
| J | • — — — | @ | • — • • • •   |
| K | — • • — | 1 | • • — — —     |
| L | • — • • | 2 | • • • — —     |
| M | — —     | 3 | • • • • —     |
| N | — •     | 4 | • • • • •     |
| O | — — —   | 5 | • • • • •     |
| P | — • — • | 6 | — • • • •     |
| Q | — — • — | 7 | — • • • •     |
| R | • • — • | 8 | — — • • •     |
| S | • • •   | 9 | — — — • •     |
| T | —       | 0 | — — — — —     |
| U | • • —   |   |               |