Arpology

A 4-voice arpeggiating synth, with an auto-improvisation feature.

How to use:

- 1) Press a piano key and Arpolgy will play a 4-voice appeaiating pattern based on what note you are pressing.
- 2) To shift the keyboard up an octave *tap* the right button. To shift the keyboard down an octave *tap* the left button.
- 3) Arpology uses two separate User Interface (U/I) "frames." A U/I frame determines which parameters are controlled by the onboard pots. The two U/I frames for Arpology are:
 - 1) The Envelope Frame (BLUE LED is on)

Top Pot controls envelope attack Bottom Pot controls envelope decay/sustain.

2) The Arpeggiator Frame (RED LED is on)

Top Pot selects arpeggiation pattern. Bottom Pot controls arpeggiation rate.

- 4) To switch between U/I frames, press the left or right buttons. Pressing the right button selects the Envelope Frame. Pressing the left button selects the Arpeggiator Frame.
- 5) To activate the automatic improvisor double-tap the left button. Arpology now "plays itself." The LED for the current frame will begin flashing, indicating that the auto-improvisor is on. While the auto-improvisor is on, Arpology will not respond to key presses. To turn off the auto-improviser double-tap the left button again.

6) There are 10 presets for Arpology. These can be selected by double-tapping the right button and then pressing one of the following piano keys:

C (0) - turn off all vibrato and panning effects

C# (1) - add vibrato to high voices

D (2) - use a slow panning effect

D# (3) - use a medium-speed panning effect

E (4) - use a fast panning effect

F (5) - play "Ambia", a slow moving improv

F# (6) - use a major tonality

G (7) - play "Streaker", a fast moving improv

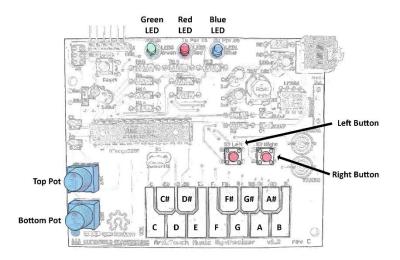
G# (8) - use a minor tonality

A (9) - reset Arpology to its initial state

Types of button presses:

Tap: quickly tap a button Press: long-press a button

Double-Tap: quickly double-tap a button



Programming Notes:

1) Arpology is meant to be compiled using the "Stand-alone" runtime model. Otherwise, the LEDs will not operate. This runtime model can be set by uncommenting the "#define __STNDLONE__" statement in Model.h of the ArduTouch library.