

Maemo Theremin

Musical instrument application for Maemo platform

by

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Other existing apps

Maemo Theremin idea was inspired by other existing musical instrument apps:

- iPhone Ocarina from Smule
- iPhone pocket guitar
- iPhone piano (iAno)

- Maemo Boxar
- Maemo PyAno



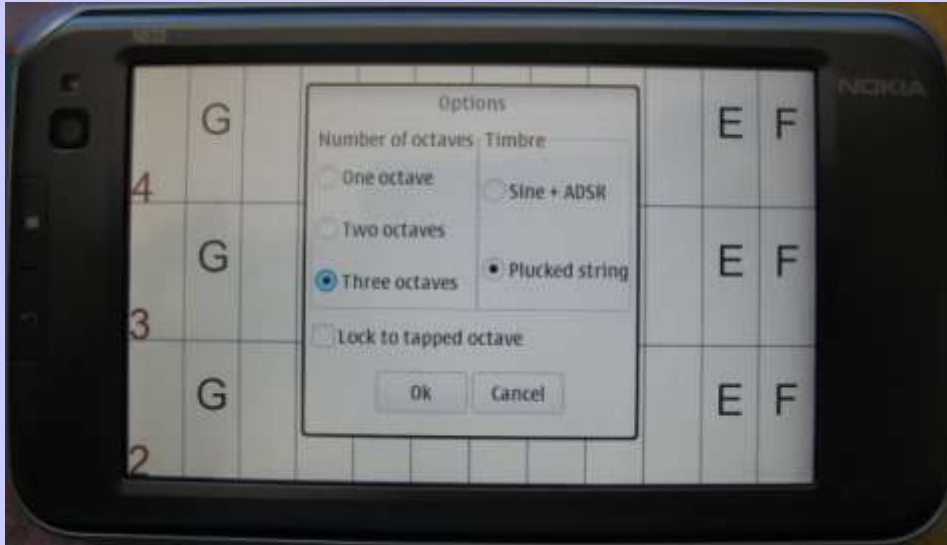
Maemo Theremin



- Why is it called "Theremin"?
- The analogy with real theremin instrument is that the Maemo Theremin allows controlling pitch and volume of the produced sound continuously and independently as does real theremin. Maemo Theremin has no frets or keys which causes the discreet set of possible pitches.

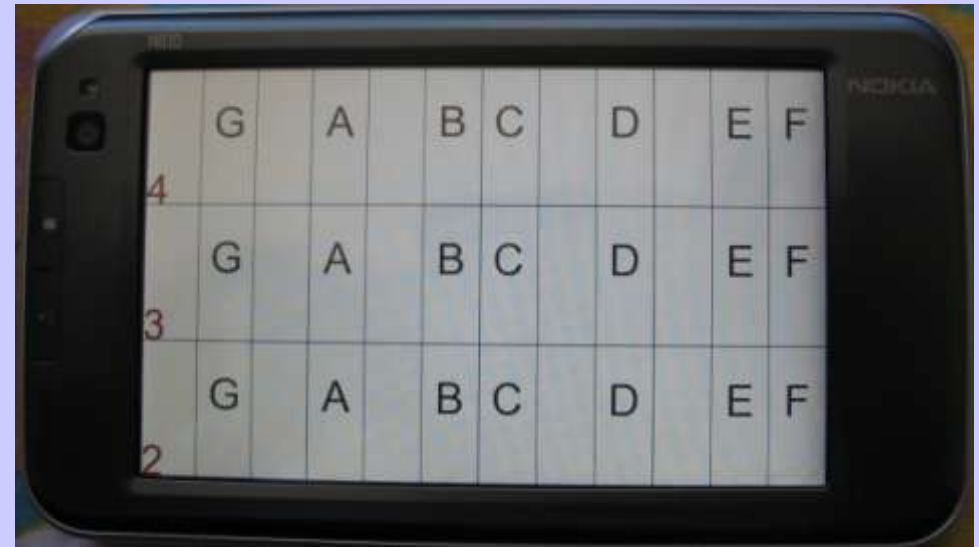
The pitch of the sound is controlled by X position of tap point (from left to right) while the volume is controlled by Y position of tap point (from bottom to top).

Options



Available timbres:

- Sine wave + ADSR envelope
- Karplus-Strong plucked string model



Playing techniques

- Simple tapping
- Slide up / down
- Vibrato 
- Tremolo 

Technologies used

- Programmed in C++
- ALSA for sound output (low latency)
- Cairo for graphics
- Gtkmm for UI

V1.3 available for OS2008: Chinook and Diablo

Project homepage:

<http://theremin.garage.maemo.org>

Thank you!