

ARPEGGIANO

Winged Keys Take Flight!

Ergonomic Microtonal Keyboard for Mobile Devices

“Playing the piano keyboard on a touchscreen is notoriously difficult.”

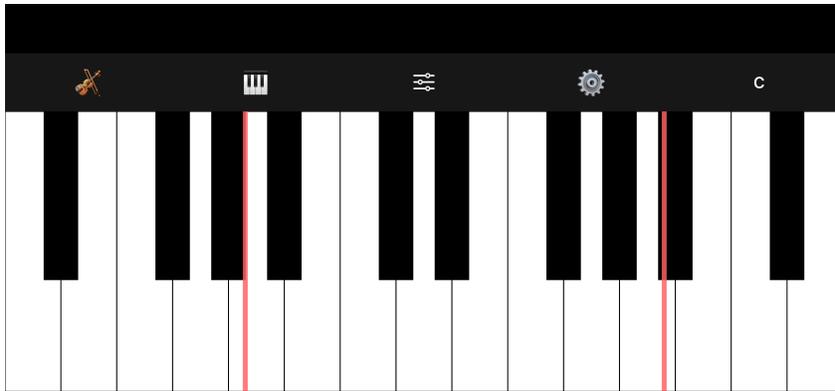
Arpeggiano is a full-range microtonal instrument designed for touch-screen devices. Features:

- Instant inversions
- Effortless Arpeggios
- 4 Playing Modes
 - Polyphonic / Monophonic
 - Touch / Hold
- Microtonal Capabilities
- Robust FX Box
- Quantized Output for Rhythmic Effects

Arpeggiano aligns touchscreen keyboard technique with mobile hardware device orientation & continuous controls to define a distinct new paradigm in music keyboard design.

***Pro keyboard players & beginners alike will delight
in soaring effortlessly through the microtonal universe!***





Main Screen

- Instruments
- Tuning
- FX Box
- Info+
- Transpose

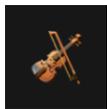
2 octave Keyboard

Octave Range Guide Lines
'Virtual Plectra'

General principle: In **Arpeggiato**, inversions of chords do not matter. Pitch class is the only essential factor (unique note names). Octave doublings are ignored. All simultaneous sonorities are sounded within a one octave range. **Tilt** the device (horizontal) **Left** to lower the pitch. Tilt **Right** for higher pitches.

Pitches, chords & scales are octave shifted sequentially in accord with the tilt of the device. Each key of the instrument is capable of playing its pitch class in any octave.

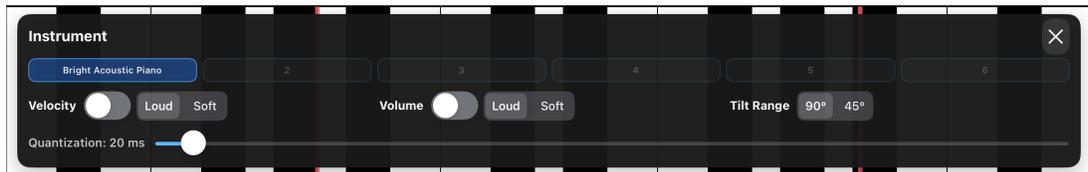
The 'virtual plectra' red octave guide lines indicate the current tilt. All notes played within the boundary of the lines will be in the same octave. Cross the boundary below & note will sound 1 octave higher. Cross the boundary above, note sounds 1 octave lower.



Instrument Settings

- Quick Select Instrument Slots (6)

- Velocity
- Volume
- Tilt Range
- Q-Slider



Instruments

Long press on a Quick Select slot to open the Instrument list & select a sound. Tap to recall.

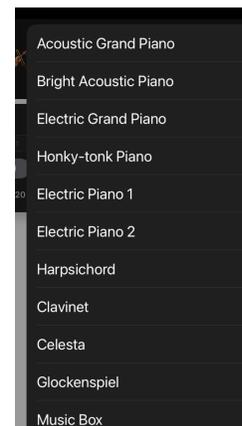
Velocity - enable / disable vertical tilt to control individual note attack velocities. "Loud | Soft" toggles tilt polarity.

Volume - enable / disable vertical tilt to control the volume of all sounding notes. "Loud | Soft" toggles tilt polarity.

Tilt Range - select the horizontal tilt range of highest & lowest notes. 90° default can be reduced to 45° for faster arpeggios requiring less movement.

Quantization Slider - "Q - Value"

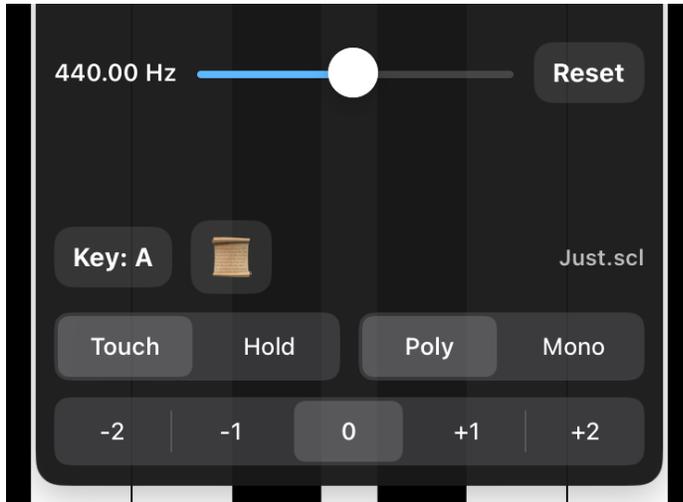
Sets a limit on how often notes can be triggered. At default 20 ms, the instrument responds instantly. At higher values, distinctive rhythmic effects are produced. Experiment with different values (5 - 500 ms).



128 Instruments
(General MIDI)



Tuning



Fine Tuning

Base Key - set the Equal Temperament base of selected Tuning Table.
Eg. A = 440.0

Select Tuning Table 
(Current Tuning File .scl)

Play Modes
Touch | Hold
Polyphonic | Monophonic

Octave Transpose - ± 2 octaves

“Poly-Touch”, “Poly-Hold”, “Mono-Touch”, “Mono-Hold” — 4 distinct ways to make music using **Arpeggiano** — *For fun, be sure to adjust the Quantization Value!*

Touch Mode: functions like a piano keyboard, “touch & lift”, triggers & releases notes.

Hold Mode: screen touches toggle regions, making them active & inactive.

Polyphonic - all notes that are touched or activated are played.

Monophonic - only one note gets played at a time. Many regions may be active, only the note under a virtual plectra is sounded.

Arpeggiano has microtonal capabilities & a modest collection of tunings to explore.

Essential

- Equal Temperament
- Just
- Meantone 1/4
- Pythagorean

Western

- Bach Breetvelt
- Euler
- Kirnberger
- Vallotti
- Werckmeister III
- Young

World*

- Arabic Empirical
- Bali Java Slendro (approx.)
- Chinese Lu (adapted)
- Indian Hridayakautaka
- Tibetan Empirical

Harmonic

- Natural 7
- Natural 7 iv m6
- Just Blue

* World tunings are presented as practical musical approximations for creative exploration, not as authoritative cultural reproductions.



FX Box

Star - save a setting

Room - select room size

X-Y TouchPad

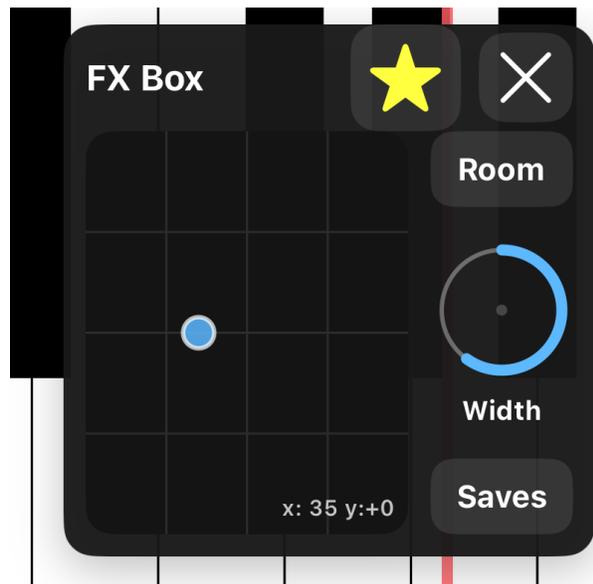
Space - room size / depth

Tone - brightness / color

Dial

Width - stereo spread

Saves - recall saved setting
long press to 'Rename' or 'Delete'



FX Box positioned on the left side of the instrument so that it can be used as a real-time controller in performance!



Info+

Panel opens to display General Information:

Quick start instructions

In-app purchases (if available)

Licenses (see below)

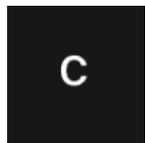
Support Links

Website - visit the site for:

User Guide & Troubleshooting

Contact Technical Support

Privacy Policy



Transposition

Tap **Transpose** to shift the keyboard to a new key.

The keyboard highlights yellow to indicate it is waiting for input.

Tap any key once to set the new key — normal playing resumes immediately.

Default key is C. Button label will update to display current selected key.

MIDI Connection

Arpeggiano sends MIDI via Bluetooth



How to connect to your Mac via wireless MIDI

Steps:

1. On your Mac, open Audio MIDI Setup (found in Applications > Utilities).
2. In the menu, choose Window > Show MIDI Studio.
3. In the MIDI Studio window, double-click Network to open MIDI Network Setup.
4. Under My Sessions, select Session 1, then click Enable.
5. In the Directory, select your iOS device.
6. Click Connect to link your iOS device to the session.

Once connected, your iOS app will appear as a MIDI source and can transmit wirelessly to any MIDI-enabled software on your Mac.

Troubleshooting



No Sound?

If the app stops producing audio:

- Quit the app completely (Swipe up from the app switcher)
- Reopen the app
- Ensure Silent Mode is OFF
- If using Bluetooth speakers/headphones:
Turn Bluetooth off, relaunch the app, then try again.

Why this can happen:

iOS sometimes gets “stuck” when switching audio between apps or Bluetooth devices. Restarting resets the audio session.



Sound Stops After Switching Apps

Sometimes when returning from a game, social media, or another audio-heavy app, the sound may not resume immediately.

Fix:

- Minimize the app and reopen it
- Or briefly switch to another system app (e.g., Music), then back

This refreshes iOS’s audio routing.



Notes Stay On or Toggle Unexpectedly

If notes appear to remain active or toggle unintentionally:

Try:

- Lift all fingers from the screen
- Tap the same key once to reset its state
- Switch briefly between Touch and Hold mode, then return

Why this can happen:

Hold mode intentionally latches notes. Touching the same key again toggles it off.

Tilt or Motion Feels Unresponsive

If tilt-based controls feel inactive:

- Ensure the device is not lying flat
- Rotate the device slightly and try again
- Check that Tilt-based controls are enabled in the current mode

Some iOS system states temporarily pause motion updates.

! Lag, Delay, or Pad Response Feels Slow

While the app is optimized for low latency, your device conditions matter.

Try:

- Turn Low Power Mode OFF
- Close heavy background apps
- Restart the device

When in Doubt

A restart of the app or the device solves almost all rare iOS audio/touch inconsistencies.

! Data & Deletion Warning

- Deleting the app will permanently remove all of its save data from this device.
- Saves are stored locally unless otherwise backed up via device or iCloud backup.

i First-Time UI Behavior

When certain interface elements are loaded for the first time, you may notice a brief pause. After initial use, performance should remain smooth and stable.

We have found no other issues when this app is used as directed.

Please report any unexpected behavior so it can be addressed in future updates.

Licenses

FluidR3_GM SoundFont. Licensed under the MIT License

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Apple Licenses

<https://developer.apple.com/terms/>

Scala tuning files (.scl) scale format & reference archive, developed & maintained by Manuel Op de Coul & contributors, used here for reference & educational purposes. All tuning interpretations & implementations within the app are the responsibility of the developer.

Arpeggiano incorporates a proprietary, patent-pending interaction model.

Questions? Feedback?

We hope you enjoy flying with *Arpeggiano*!

Your feedback is important to us. Reach out via the online support form.

We'll do our best to respond as soon as possible 🙏

We're constantly developing & improving our products.

Got a great idea or feature request? We want to hear it!

Sign up to share feedback, get early access to new apps, & receive exclusive offers.

<https://bondinstitute.io/>

Arpeggiano – MIDI Specification Sheet

This document outlines the MIDI messages sent by Arpeggiano, for integration with external MIDI devices, DAWs, or recording software.

1. MIDI Messages Sent

MIDI Message	Purpose	Channel(s)	Trigger / Event
Note On (0x9x)	Plays note	Per pitch class	Key touch
Note Off (0x8x)	Stops note	Per pitch class	Key release
Pitch Bend	Microtonal tuning	Per pitch class	Continuous / tuning
Program Change (0xC0)	Select instrument	Global	Instrument selection
Control Change – CC7	Main volume	Global	Volume control

2. Technical Notes

- MIDI output only; incoming MIDI is not supported.
- One MIDI channel is used per pitch class to support independent microtonal tuning.
- Pitch Bend is used to realize tunings beyond 12-tone equal temperament.
- External devices must support pitch bend for accurate microtonal playback.