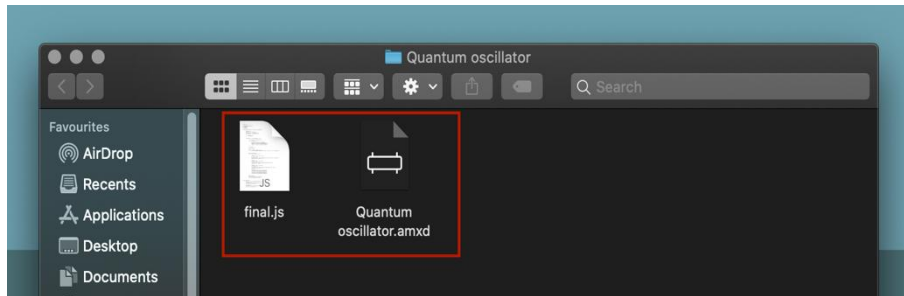


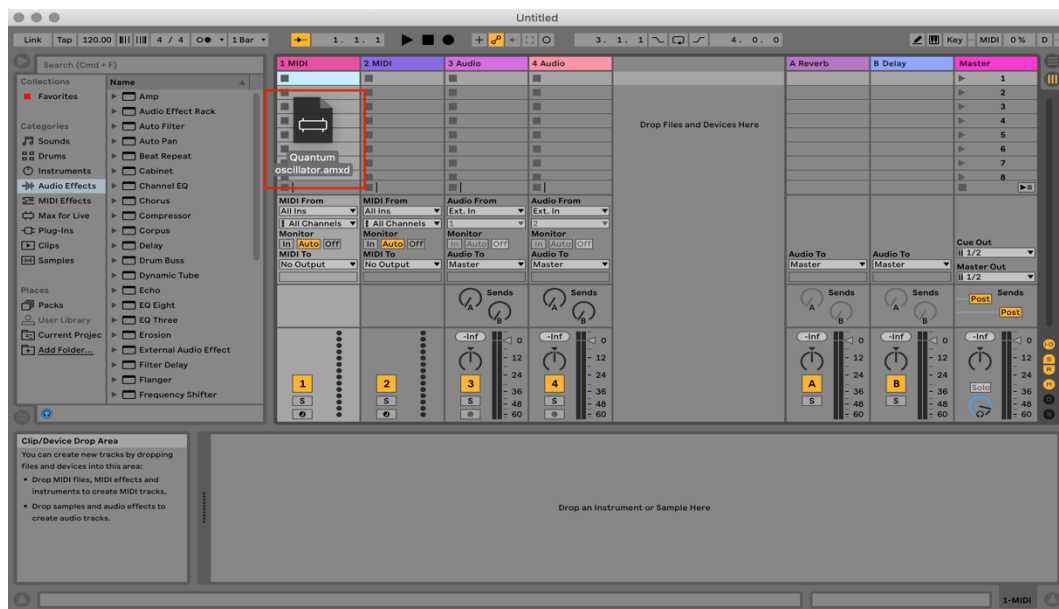
Quantum Oscillator - Instructions

1. Download the Quantum Oscillator from the address: INSERT_LINK.
2. Open the .zip file.
3. It is important to keep the quantum oscillator.amxd and final.js files in the same folder.



4. In order to to run Quantum Oscillator, you will have to install either **Ableton Live Standard along with Max for Live** or **Ableton Live Suite** (which already contains Max for Live). You can download a free 90-day trial version of needed software at the following link: <https://www.ableton.com/en/trial/>.

5. Drag the quantum oscillator.amxd file to a free MIDI channel within the project.



6. Enter the desired parameter values in the **ORDER**, **FREQUENCY** and **NUMBER OF HARMONICS** fields.

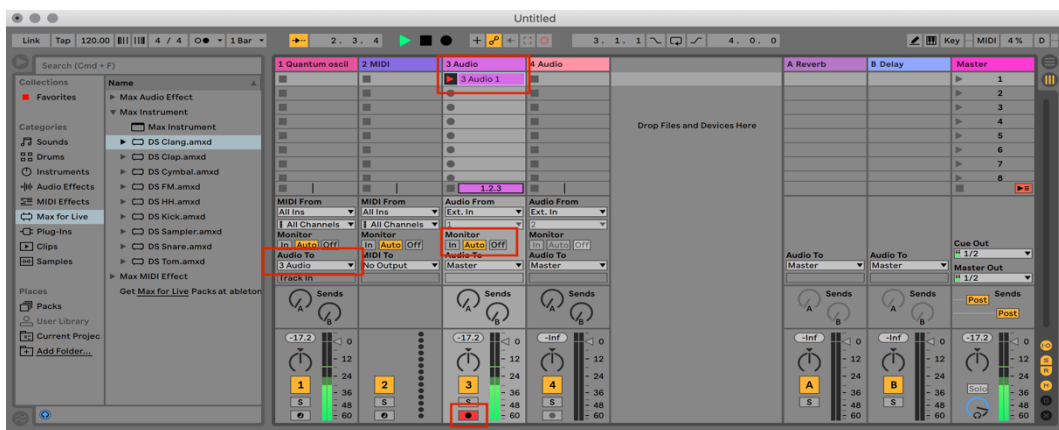
7. In order to hear the sound of the oscillator, it is necessary to amplify the **VOLUME** potentiometer.



8. Since the level of the generated sound directly depends on the number of created harmonics, it is recommended to be careful with the level, making slight gradual amplification until the desired sound level is reached.

9. The **NUMBER OF HARMONICS** parameter can have an unlimited value, which means that it is possible to make a very large number of harmonics inside the oscillator. For values over 200 harmonics it is possible that, depending on the computer configuration, it will take some time for the Oscillator to produce such a signal.

10. In order to record the signal coming from the Quantum Oscillator, it is necessary to send the output of the MIDI channel to the input of the desired audio channel.



11. Quantum Oscillator was tested in Ableton Live 9 and Ableton Live 10 environments, on Windows and MAC operating systems