

# Live Pong

By Mark Towers

## User Guide

Live Pong is a generative sequencer built in Max for Live. By clicking in the 'Cell Area' towards the left of the device when Live is running, cells are generated which will create notes whenever they reach the outer grid area (top and bottom rows, left and right columns)

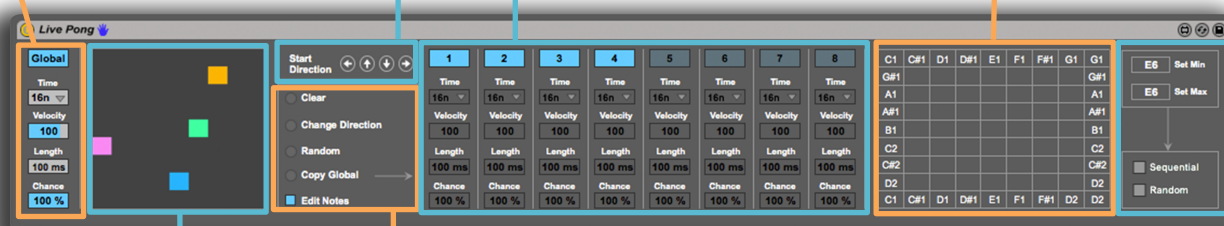
Use the 'Start Direction' control to choose the starting direction of newly generated cells. This also affects cells that are re-generated in new locations by clicking the cell area when all cells are active.

In 'Global' mode you can control the timing, note velocity and length and chance of cells 'bouncing' for all active cells

Press the 'Global' button to change to 'Cell' mode, you can now control individual timing, note velocity and length per active cell. The cell buttons at the top will turn on when a new cell is generated, you can switch them off here too.

You can easily select multiple notes but selecting a Minimum and Maximum note range, and then choose to either populate the notes sequentially or randomly.

Drag up and down to on the MIDI Notes grid to change which notes are triggered when cells reach the outer grid area. When selecting sequential, notes begin to be populated from the top left, and continue clockwise.



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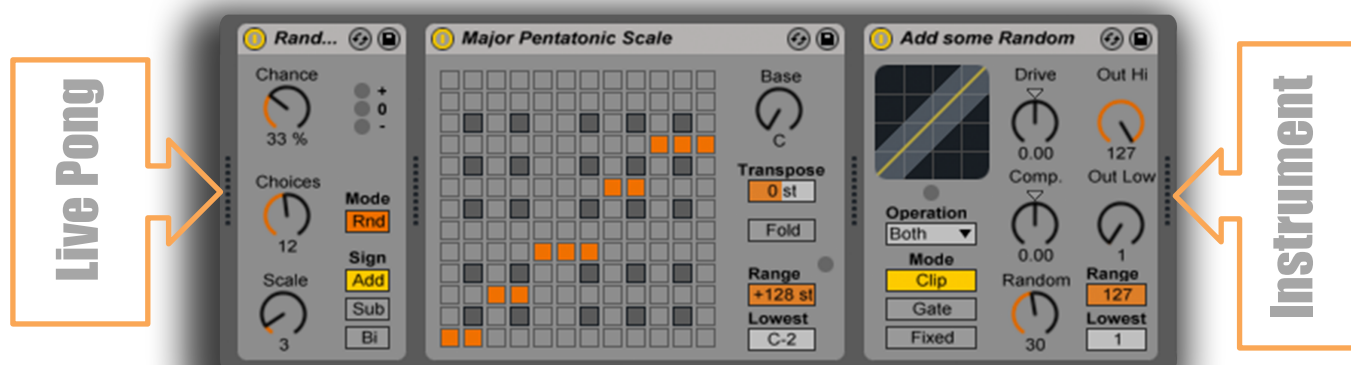
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Live Pong has been designed to be used in conjunction with Live's powerful MIDI effects. Although it is possible to create a scale via the editable note grid, you may wish to use the **Scale MIDI Effect** for a quick way to access a full collection of scale presets.

Use the **Random MIDI Effects** before Scale to allow for some variations in Pitch, by placing the effect before Scale, all note variations will still work within the selected scale.

Finally, try the **Velocity MIDI Effect**, I am using the 'Add some Random' preset, which works great for creating variations in velocity, or how hard or soft the notes are triggered.



For a detailed video demonstration of Live Pong in action, go to:

[https://www.youtube.com/watch?v=17rl3X\\_Pe6o&list=UU64txfqYcbVdM2UXbuvEtw](https://www.youtube.com/watch?v=17rl3X_Pe6o&list=UU64txfqYcbVdM2UXbuvEtw)