

## Getting a Novation Launchpad Mini Mk3 working with a Monome Norns Shield - A rough guide for n00bs, not-very-technical people and the otherwise faint of heart...

**Disclaimer:** If you're coming at this with a Monome Norns Shield and a Monome Grid, then this 'how to' isn't really going to be much use to you, and you would be better off following the official Monome documentation, which you can find [here](https://monome.org/docs/):

<https://monome.org/docs/>

**Overview:** The process has two parts: setting up the necessary library in `maiden`, then making the necessary alterations to a script, to check the Launchpad works.

**Part one: Set-up in maiden.** We need to install the `midigrid` script (@jaggednz's fork) to ensure the Shield and the Launchpad can 'see' each other.

1.01 Open `maiden` and find the input bar - it's at the bottom of the screen and can be identified by the two closed angle brackets `>>`

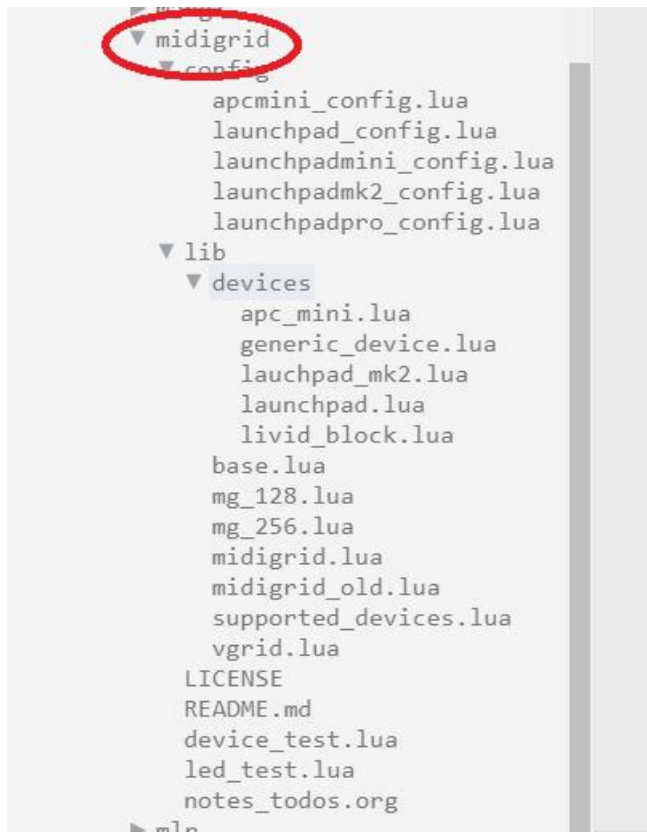


1.02 Type this command into the input bar, exactly as shown:

```
;install https://github.com/jaggednz/midigrid
```

1.03 Press the 'Enter' key on your keyboard. The process is very quick and the result will be shown in the text field above the insert bar [see image above]

1.04 To check: Expand code in the left-hand column, you should now see `midigrid` listed [see image below]



**Part two: Editing a script** - in this case @tehn's `awake` - to enable the Launchpad to work with it.

2.01 In maiden, go to `files` and click on `code` to expand the subsection. Locate the `awake` folder and click to expand. The script, `awake.lua`, should be visible - click on it to display the code in the right-hand window and scroll down until you find the line of code that says `g = grid.connect()`

2.02 Move the cursor to the empty line immediately above and press 'Enter' on your keyboard to insert a new empty line.

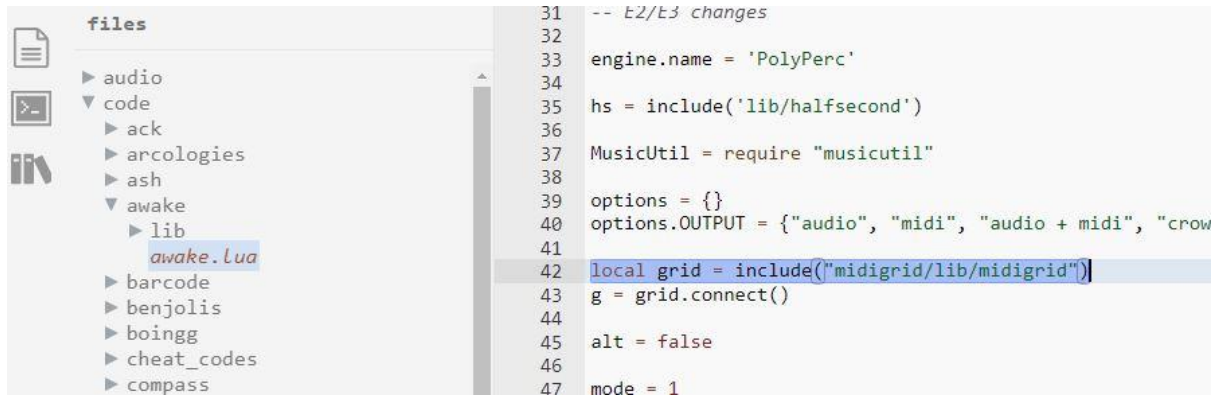
2.03 In this new empty line, type in the following:

```
local grid = include("midigrid/lib/midigrid")
```

**Important:** You must type the *entire* line, exactly as shown. Otherwise, grid-enabled scripts may fail to load until the line is corrected and a reboot has occurred.

The `awake.lua` reference in the left-hand column will have changed colour to red. This tells us that the script knows it's been edited.

Check out the screengrab below which shows how things are looking at this point:



2.04 Now click the floppy disc icon (top right-hand corner of the screen) to save the edited script. `awake.lua` will change back to its default grey colour.

2.05 Close `maiden` and shut down the Shield.

2.06 With the Shield still shut down, plug the Launchpad into it, using the USB-B to USB-C cable that came in the box with it. Any of the Shield's USB ports should work just fine. Now power on again. The Launchpad will burst into life and settle down to a steady display, then the Shield's start-up sequence - the sparkle animation - will boot before landing on the home menu.

2.07 You should now hear `awake` playing and see the Launchpad's LEDs lighting up as they follow the music.

**Appendix:** You may want to change a couple of settings in the Launchpad to make it more 'Shield friendly':

01 Configure the Launchpad so the LED display matches what you see on the Shield screen. To do this, you need to switch from Launchpad's Keys mode (the default on start-up) to Programmer mode: Long-press the Session key (top row, middle) to access the settings, then press the Stop/Solo/Mute key (bottom right-hand corner). [Thanks to @MentalSandal for this tip].

In `awake`'s Step mode, pressing `K2` or `K3` on the Shield will switch the views on the Launchpad between the lower and upper sequencers. To alter the notes, simply press the LED key you want to change to on the Launchpad.

02 LED brightness is a matter of personal taste; I found the default setting a little too bright and changed it by going to the Launchpad's settings menu: Press and briefly hold the Session key (top row, middle). The top 4 rows of LEDs will display the characters 'LED'; under that is the LED Brightness Slider (lit horizontally). There are 8 levels, the currently selected one is lit in white; to change it, press the one you prefer. To exit, press and briefly hold the Session key.



And finally... Massive thanks to @JaggedNZ, @DoS, @okyeron, @ngwese, @delineator, @zebra and @MentalSandal for all the help, support (and patience!). I couldn't have done it without you and it has been awesome to see how the Lines community pulls together. Best forum on the web? I think so... ❤️