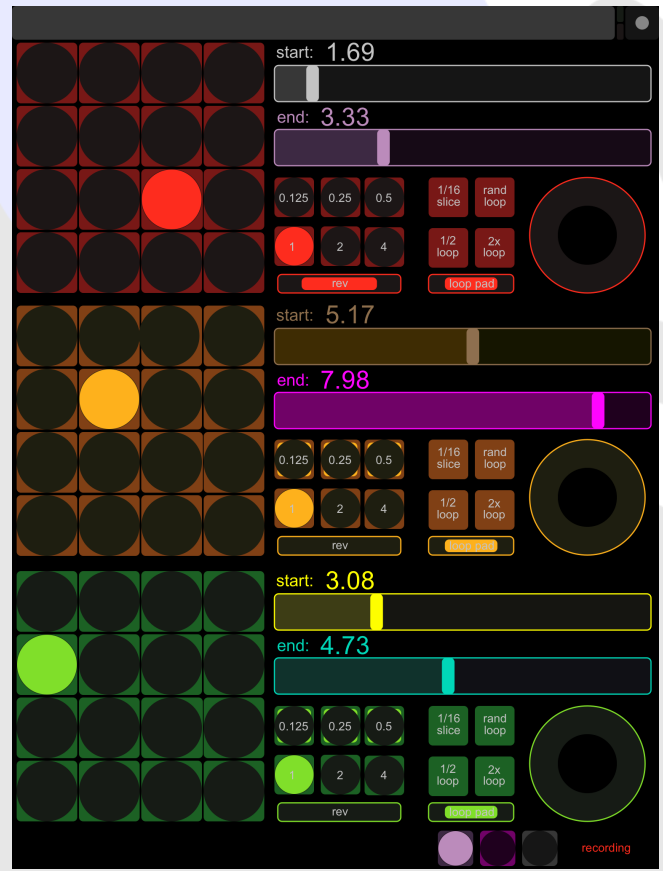


OSC is a fantastic way to reimagine control over cheat codes beyond grid and arc. To kick things off, give the new TouchOSC template a try:

- Download TouchOSC on an iPad
- Load the 'cheat\_codes' layout into TouchOSC
- With norns on the same WIFI network, open TouchOSC's "CONNECTIONS" menu -> OSC and select norns as a host
- Open TouchOSC's "Options" menu and toggle on Bundle Messages + Send Ping, and set Delay to 1s
- Tap "Done" in the top right corner of TouchOSC
- After a second, cheat codes should automatically recognize your iPad's IP and port in its **OSC setup** parameters menu
- You should now be able to control cheat codes from your iPad!

Pads are pads, start/end are loop start and end points, the jog wheel moves the loop window, etc.



To switch which buffer a bank/pad references:

- navigate to [loops] and hold K1 on norns
- tap a pad to bring it into focus and use E2 to cycle through the Live and Clip buffers
- tap pad 16 in any bank to change *all* the pads in that bank

To help facilitate your development of new interfaces to control cheat codes, the end-points have been exposed for bi-directional OSC mapping:

- /pad\_sel\_X: jump to a new pad in bank X
- /rate\_X: assign rate to the current pad in bank X
- /rate\_rev\_X: reverse the rate of the current pad in bank X
- /pad\_loop\_single\_X: loop the current pad in bank X
- /pad\_loop\_all\_X: set all the pads in bank X to loop
- /pad\_start\_X: set the start point for the current pad in bank X
- /pad\_end\_X: set the end point for the current pad in bank X
- /pad\_window\_X: move the loop window for the current pad in bank X
- /pad\_loop\_slice\_X: set the length of the current pad in bank X to 1/16 current bpm
- /pad\_loop\_double\_X: double the loop length of the current pad in bank X
- /pad\_loop\_halve\_X: halve the loop length of the current pad in bank X
- /pad\_loop\_rand\_X: randomly create a loop window for the current pad in bank X
- /rec\_clip\_X: switch which Live clip should be recording, send the same argument to toggle recording off/on