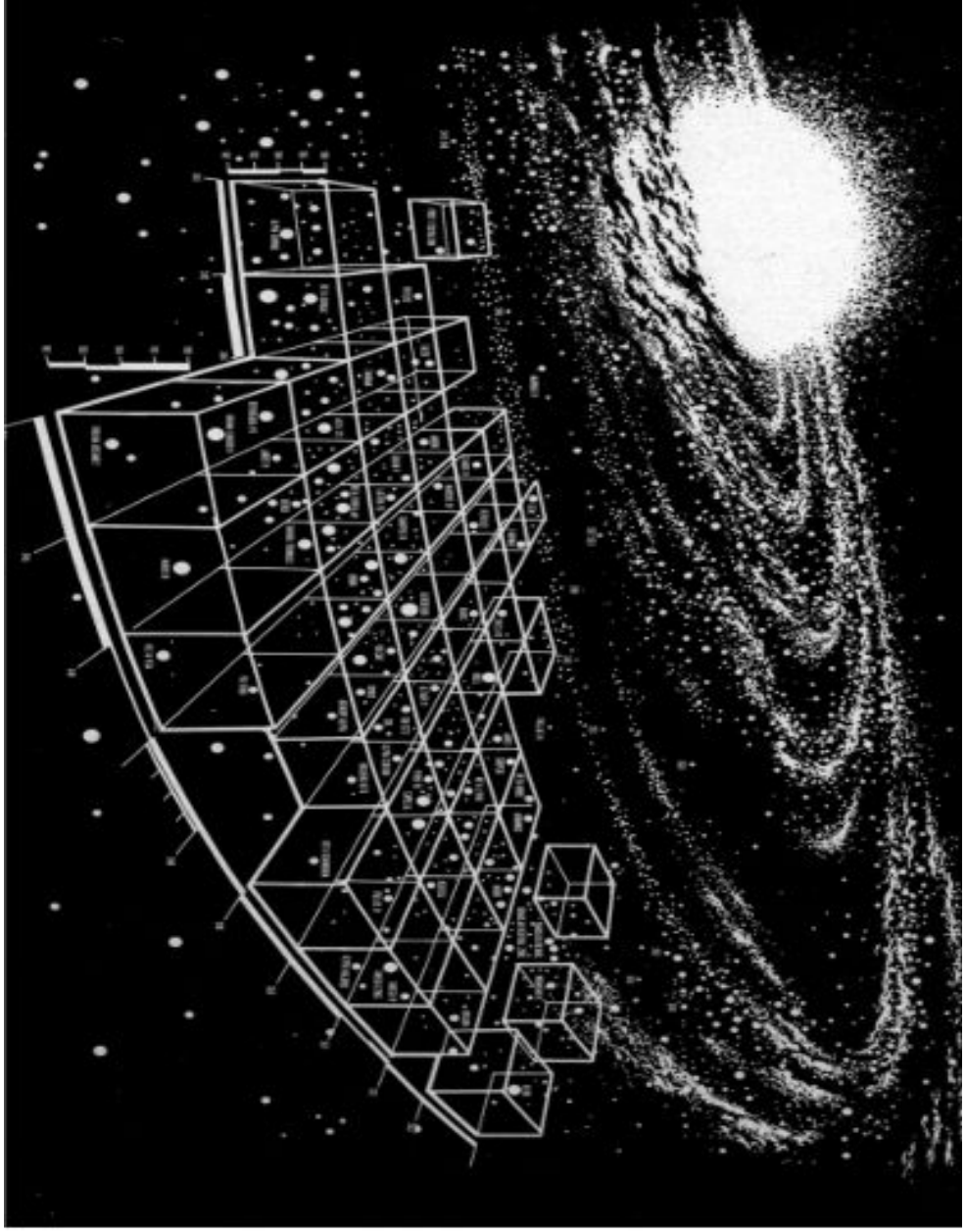
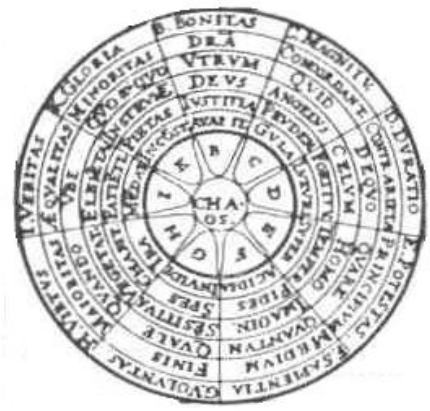
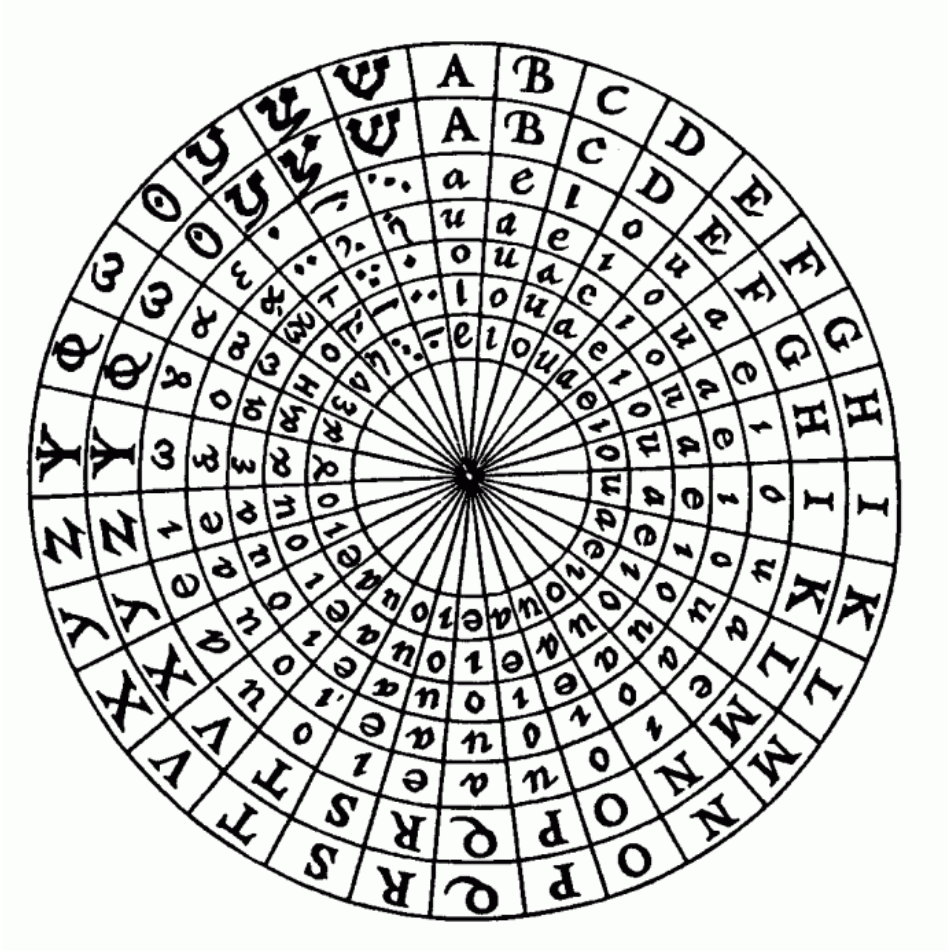


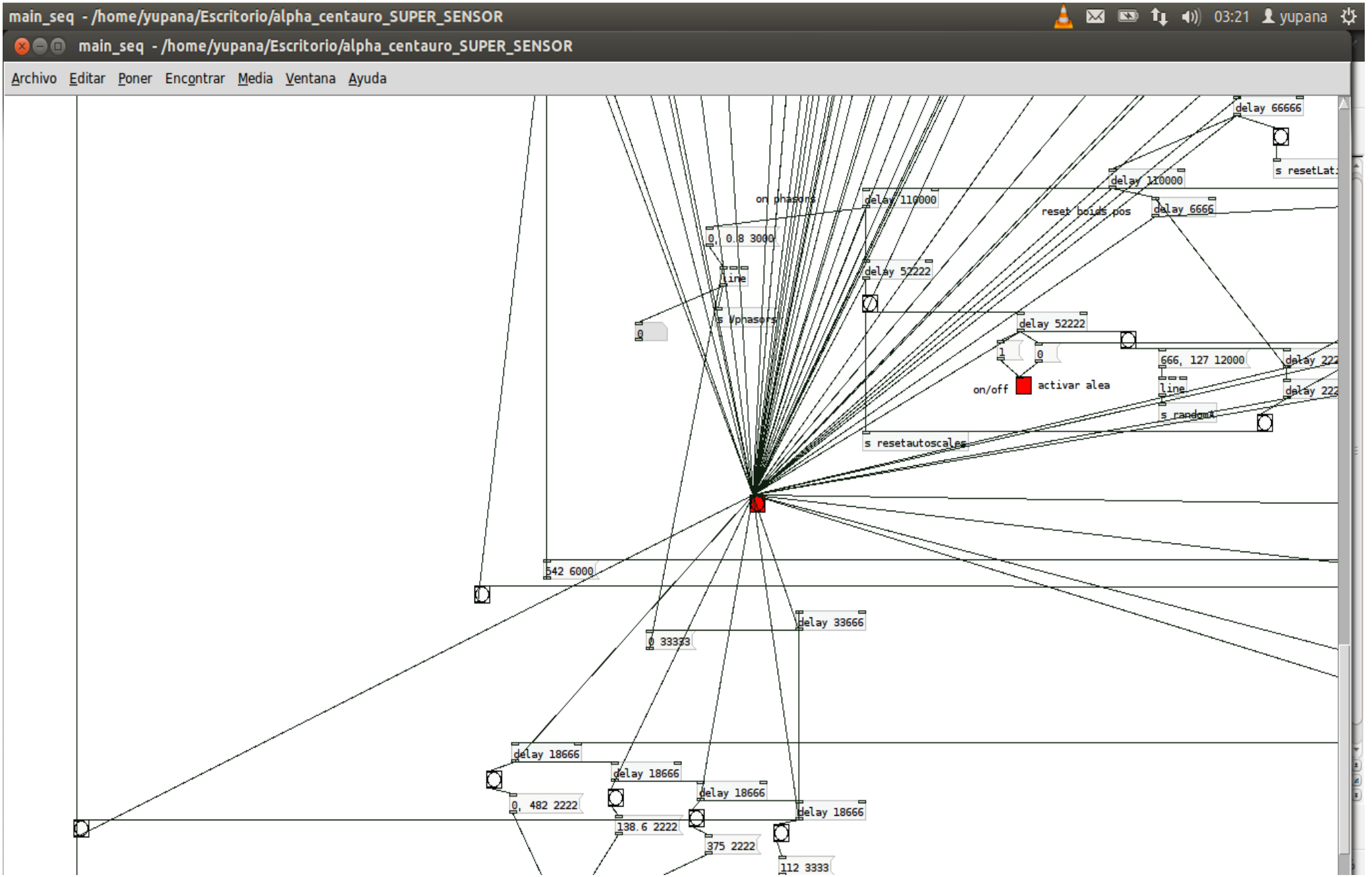
BOIDS ALPHA CENTAURI v.02





BOIDS ALPHA CENTAURI v.02

It is a piece of generative audio of indefinite duration. You can listen it by executing a script programming, specifically a "patch", a piece of code (software) written in the programming language Pure Data. There are no pre-recorded files, but a series of algorithms and mathematical operations sequenced and connected to sound synthesizers. At the level of composition there is a partially defined structure, where we can listen controlled and determined parts and other more indeterminated and "random". The compositional main structure runs as a circular shape; that is back to a starting point after >=40 minutes, but at every turn the sound material generated and the duration of some of the parts are slightly different. We could imagine the structure as a series of orbits of different length turning around a mobile center.


main_seq - /home/yupana/Escritorio/alpha_centauro_SUPER_SENSOR
03:21
yupana
main_seq - /home/yupana/Escritorio/alpha_centauro_SUPER_SENSOR
Archivo Editar Poner Encontrar Media Ventana Ayuda
delay 66666
s resetLat
delay 110000
on phasors
delay 110000
reset boids pos
delay 6666
0, 0.8 3000
line
delay 52222
s Vphasors
0
delay 52222
1
0
666, 127 12000
delay 222
on/off
activar alea
line
delay 222
s random
s resetautoscales
542 6000
delay 33666
0 33333
delay 18666
delay 18666
delay 18666
delay 18666
0, 482 2222
138.6 2222
375 2222
112 3333

To run and listen the piece we have to options:

A) Install the software pd-extended (pure data) and run the file boids_alpha_centauri_v02.pd (windows, Linux, Mac OSX)

B) run a app standalone boids_alpha_centauri_v02 without having to install the software pd-extended (only Mac OSX)

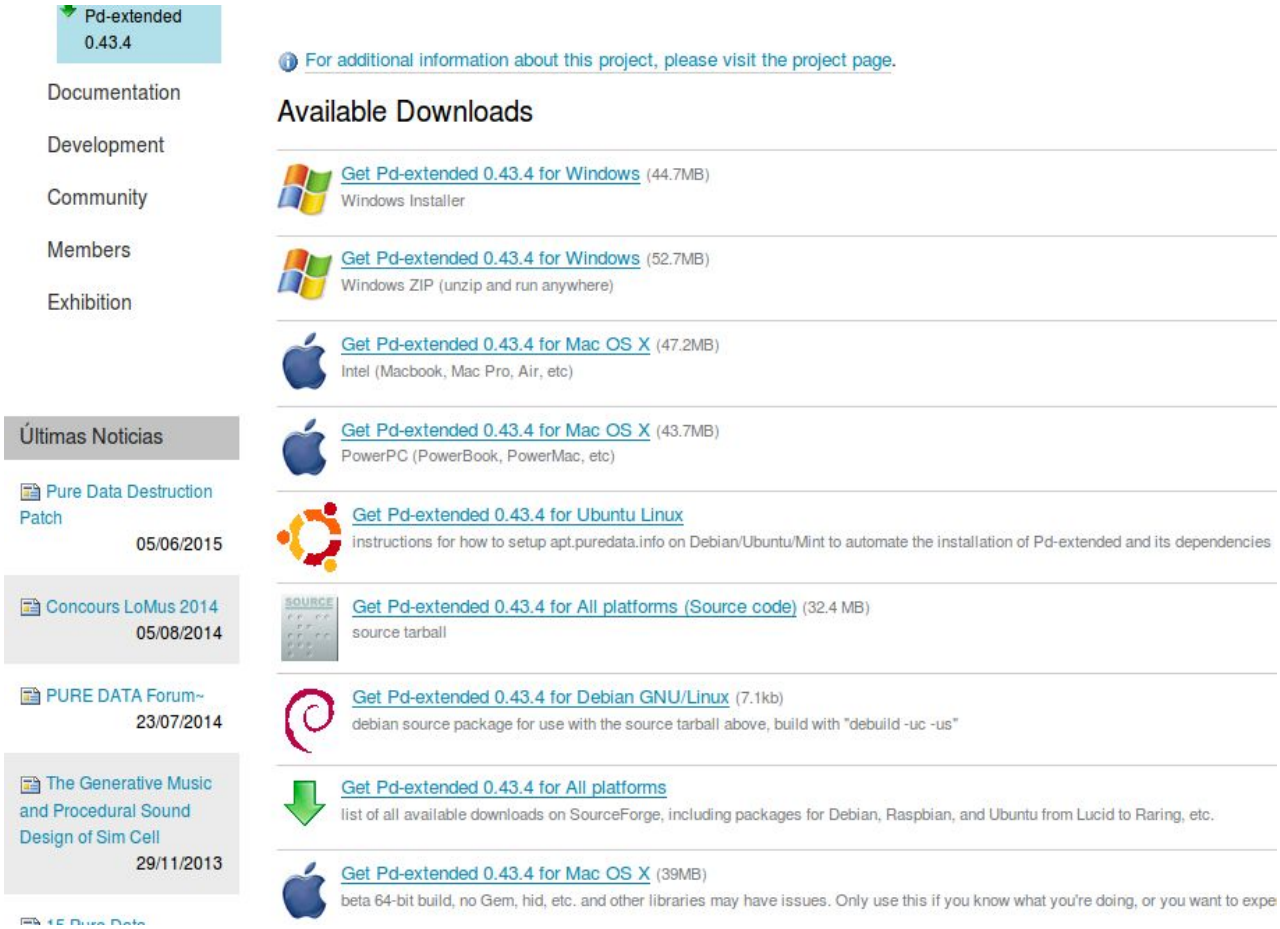
what it is pd-extended > https://puredata.info/

A)

Download and install pd-extended for your operative system (windows, Linux or Mac OSX)
get pd-extended here
https://puredata.info/downloads/pd-extended/releases/0.43.4

*Mac OSX during the installation a screen is goint to asking you about installing X11 XQuartz also. Click yes and install.

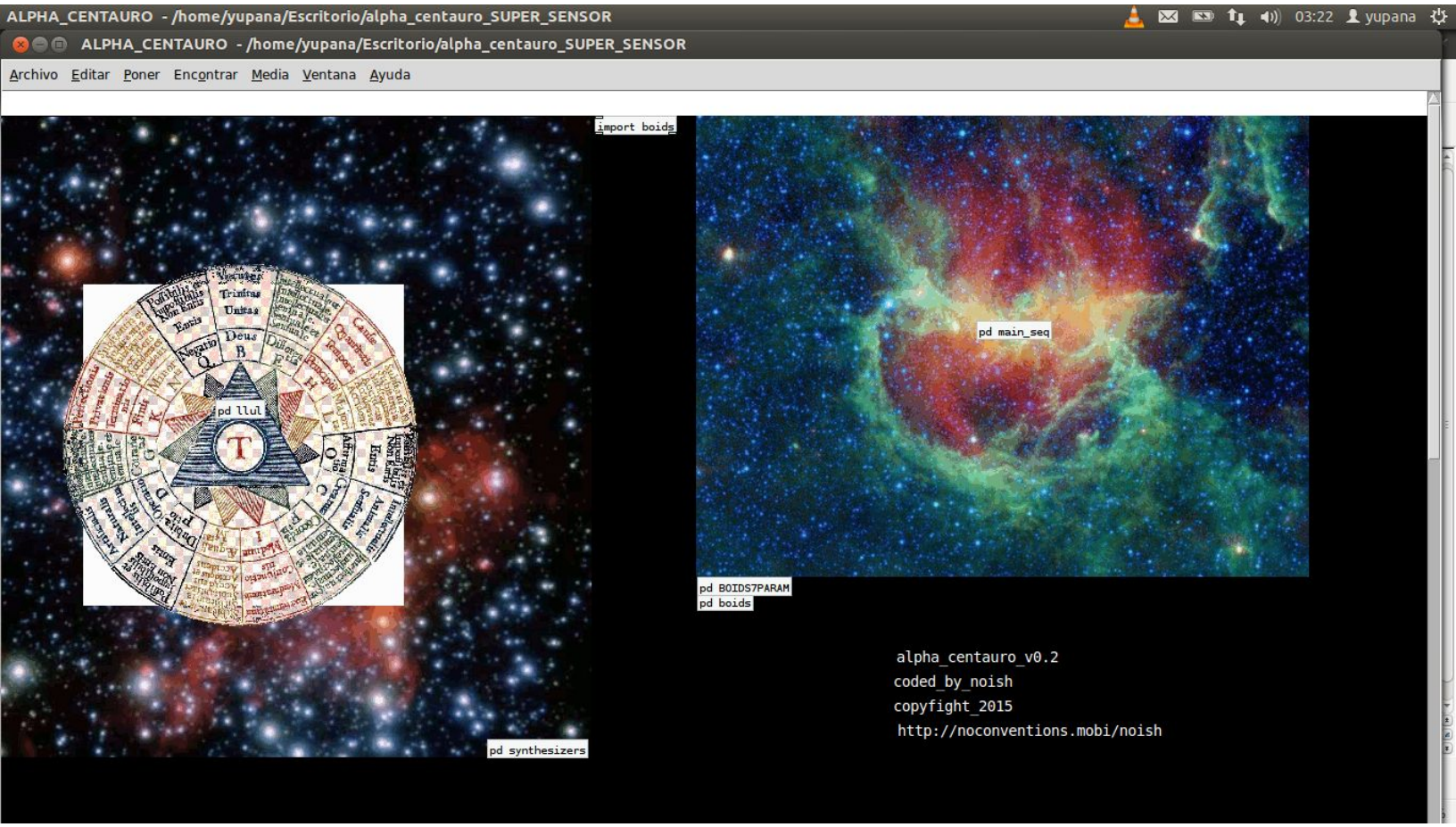
After the installation of pd-extended, doble click on the file boids_alpha_centauri_v02.pd and listen.

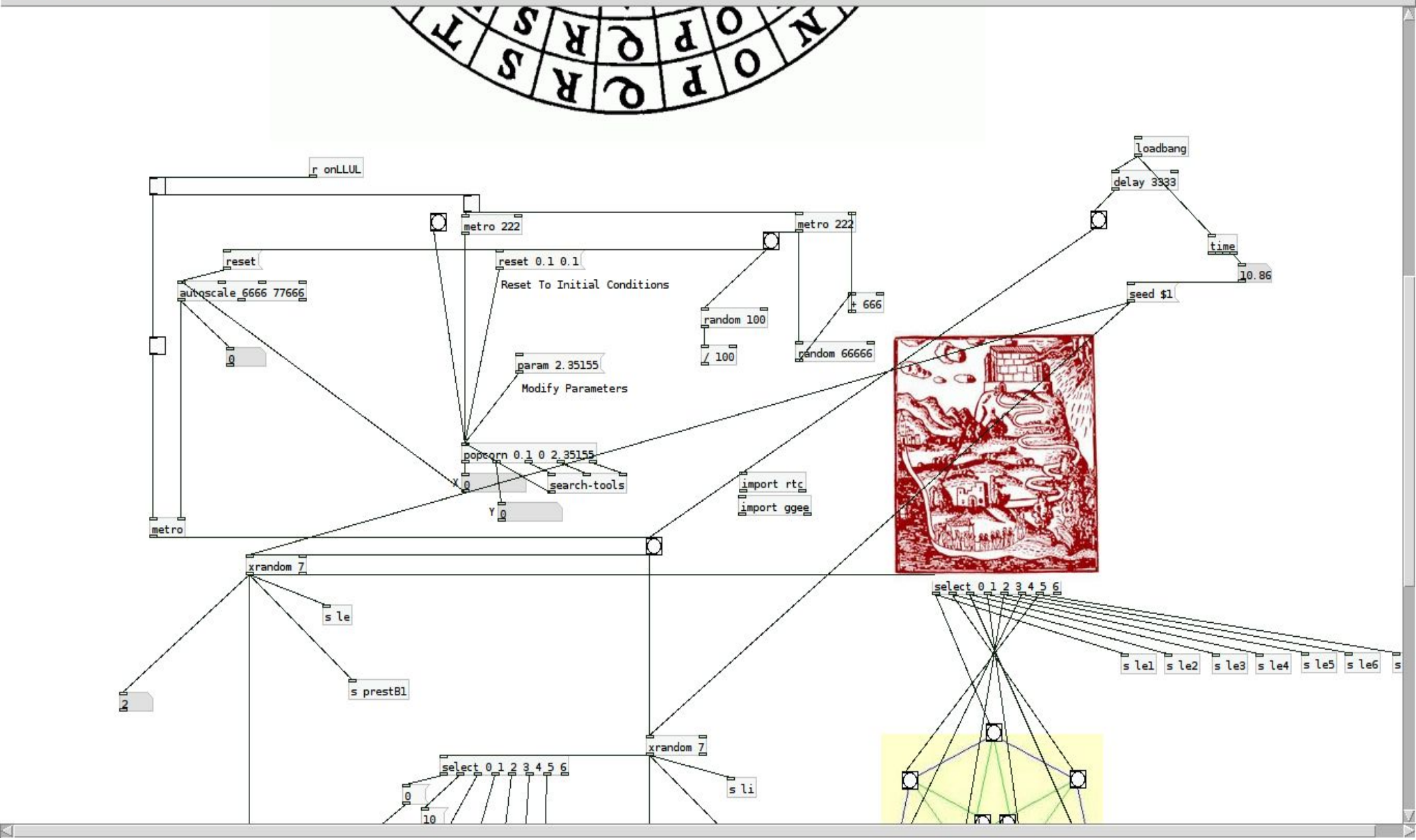


B)

App standalone (only for Mac OSX) you dont need to install pd-extended

Doble click on the file boids_alpha_centauri_v02 and listen.

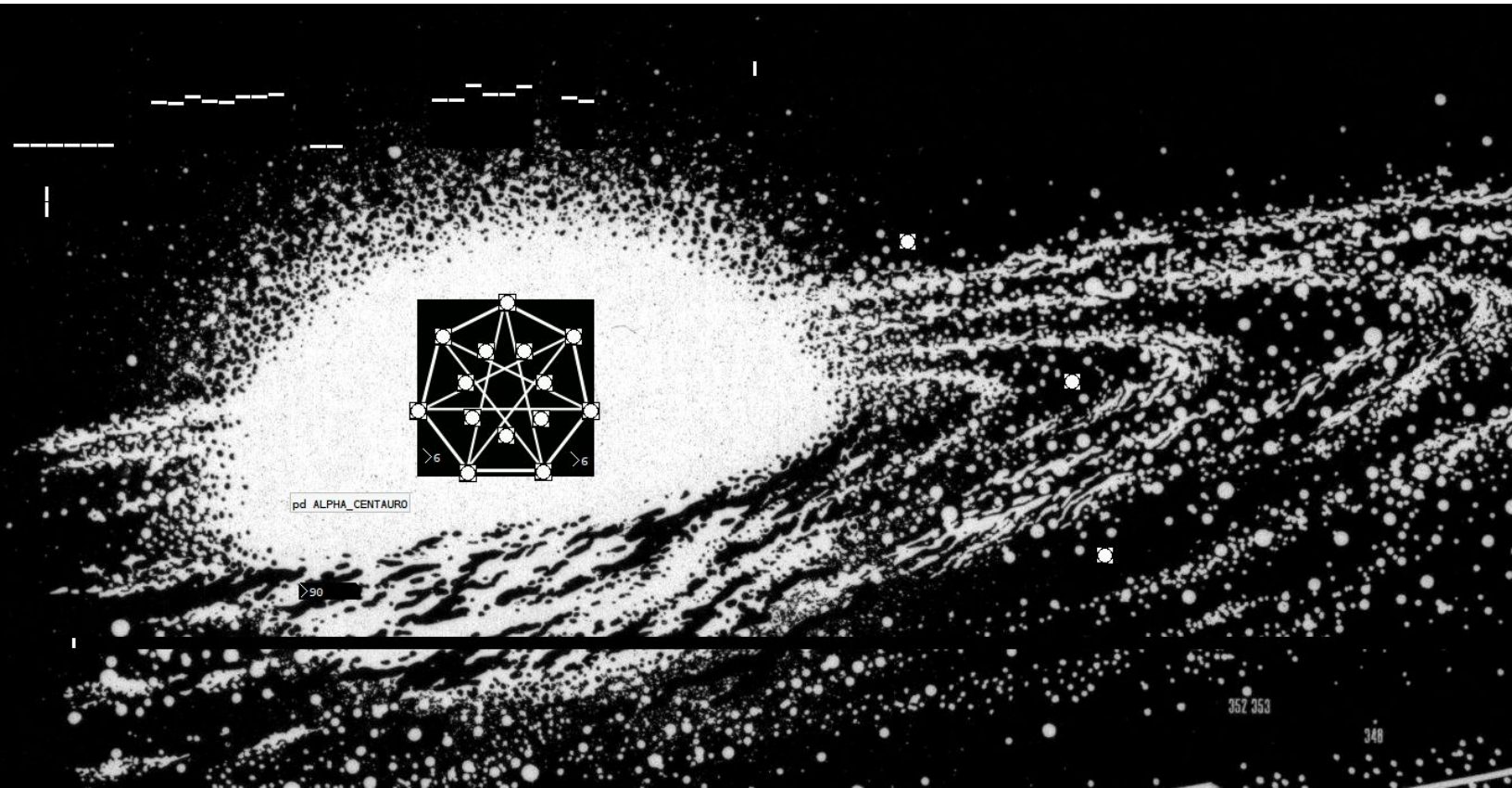



r onLLUL
metro 222
metro 222
reset
reset 0.1 0.1
Reset To Initial Conditions
autoscale 6666 77666
0
random 100
/ 100
t 666
random 66666
param 2.35155
Modify Parameters
popcorn 0.1 0 2.35155
X 0
Y 0
search-tools
import rtc
import ggee
metro
xrandom 7
s le
s prestB1
2
loadbang
delay 3333
time
10.86
seed $1
select 0 1 2 3 4 5 6
s le1
s le2
s le3
s le4
s le5
s le6
xrandom 7
select 0 1 2 3 4 5 6
0
10
s li

Extra info about boids_alpha_centauri_v02:

Is a experimental audio work part of a extended and iterative series of pieces based on th exploration of the sound posibilities of the "boids algorithm". The verion v01 of this piece was coded for a specific 6 channel audio installation @ machine-music / grande exposition d'art sonore, AP033 Nantes. For the generation of the sound material i coded a custom software using Pure Data environment. I build 3 "instrument" linked a to 2d boids simulator with a basic AM audio synthesis, one transistor bass emulation basemu~ and a laticce substractive synthesis. The code implement also a combinatorie logic system inspirated in the Ars Magna of Ramon Llul that manage the changes in the boids parameters.

*boids simulator > Flocking boids is a computer model for the coordinated motion of groups (or flocks) of entities called boids. Flocking represents group movementas seen in bird flocks and fish schoolsas combinations of steering behaviors for individual boids, based on the position and velocities of nearby flockmates.

*Ars Magna of Ramon Llul > http://history-computer.com/Dreamers/Llull.html

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