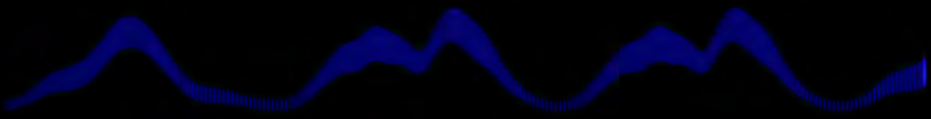
№ 13.
“ INDEPENDENT PROJECT “

Rhythm → Structure

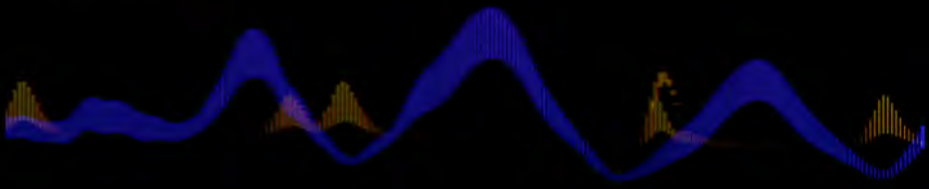
Chords combination



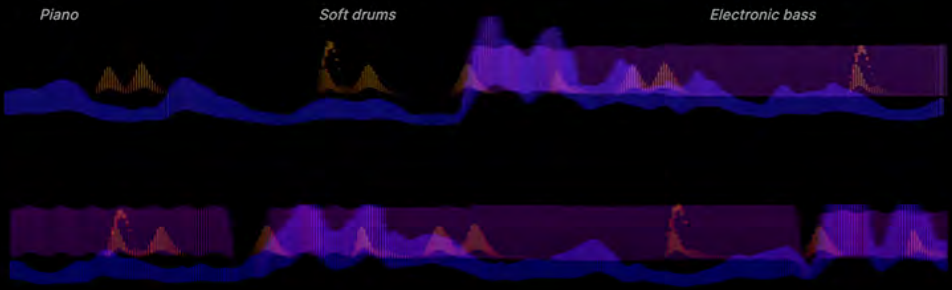
Note → Chord → Part of the song layer

Structure → Harmony

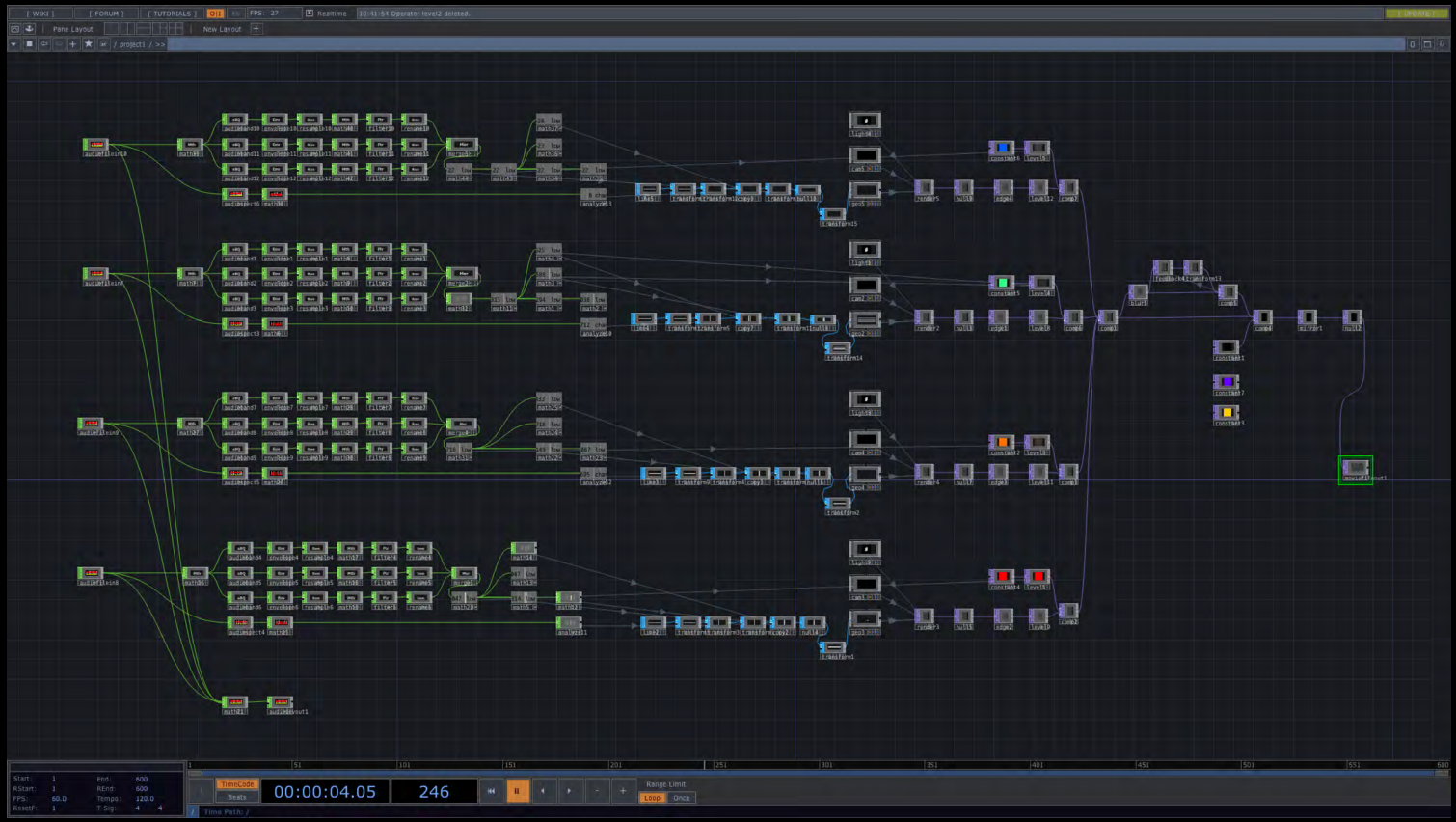
Combination of music layers



Harmony → Melody



"Ocean eyes" by Billie Eilish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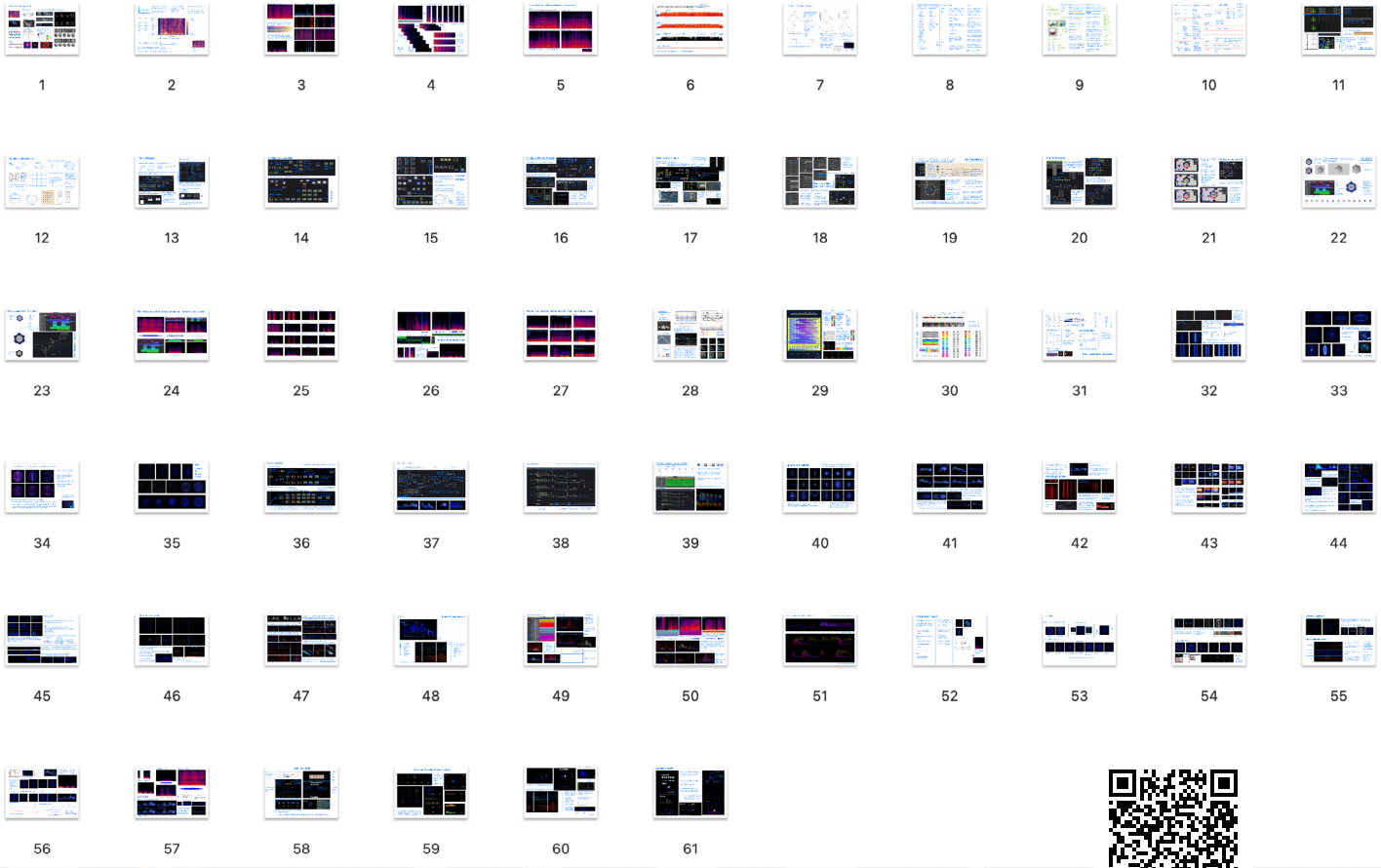
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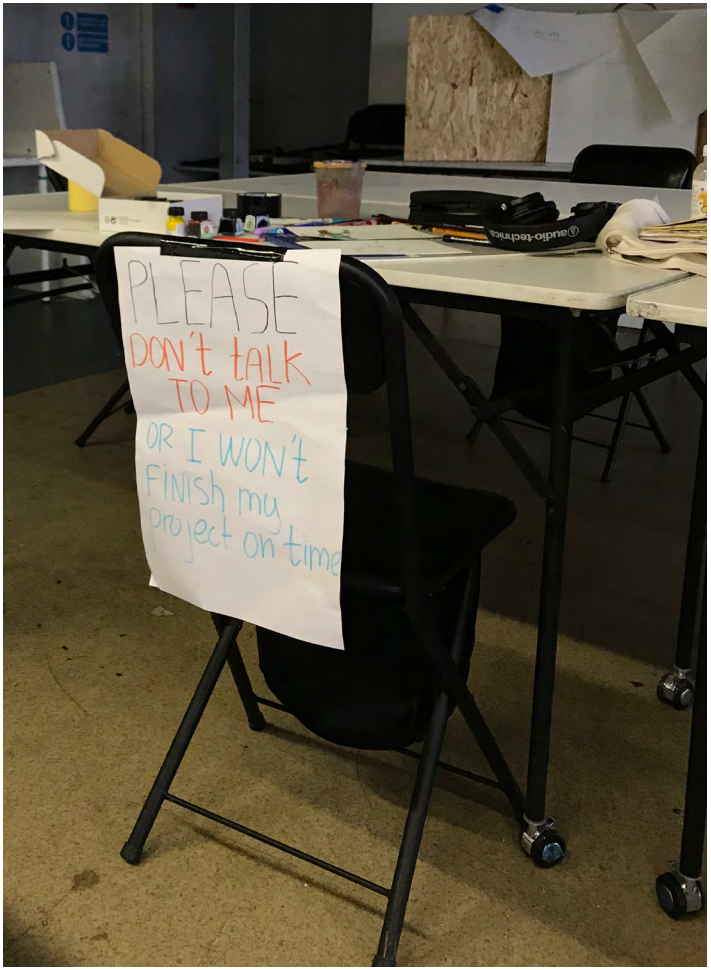
-> write yourself a brief.
[some considerations later]

// ... what if the last project was the key to this one?

DEVELOP A PERCEPTUALLY ACCURATE VISUAL LANGUAGE TO ILLUSTRATE ANY SONG AUTOMATICALLY

-> this is the project for the end-of-year exhibition.



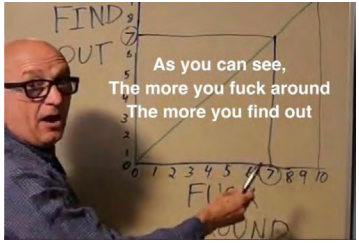
// nah, screw it, i'm way too tired of explaining (it is already on the website or the process book anyway).

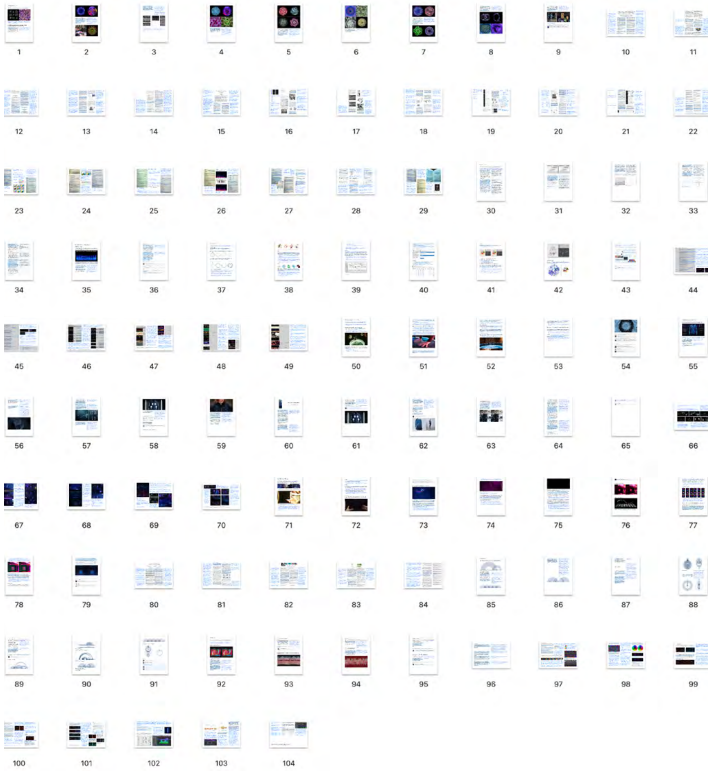
it's all documented: research, prototypes, programming, and all the rest.

YOU NEED TO SEE THIS!

// seriously, i'm impressed with how it turned out.

the previous project
takeayway:



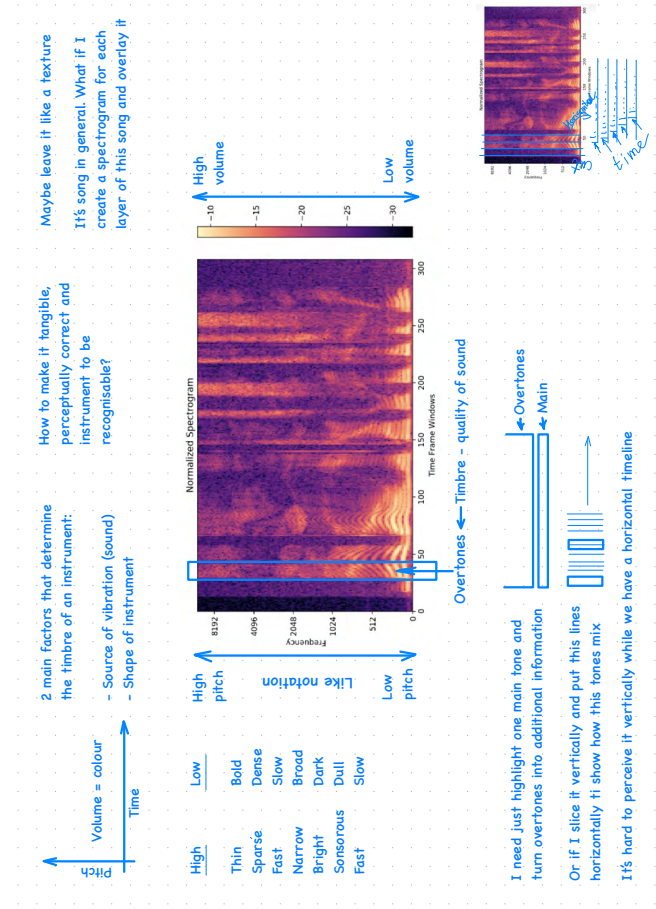


// soooooooooooo, i did a deeeeeeeeeeeeper research...

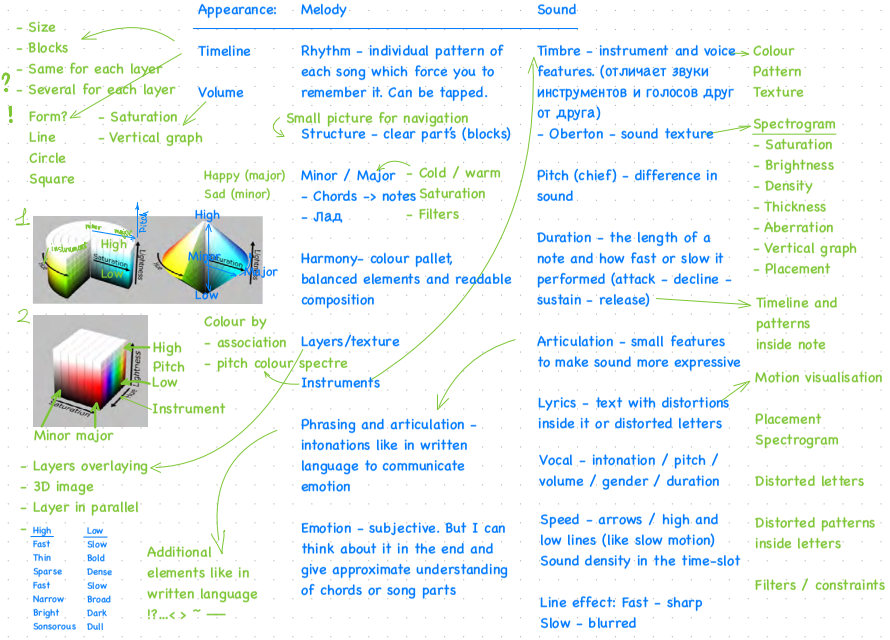
[NOTE]

[LINKED FILE] SEE THE CRITICAL JOURNAL

AND SOME SKETCHES



AND MORE SKETCHES



// and more ...

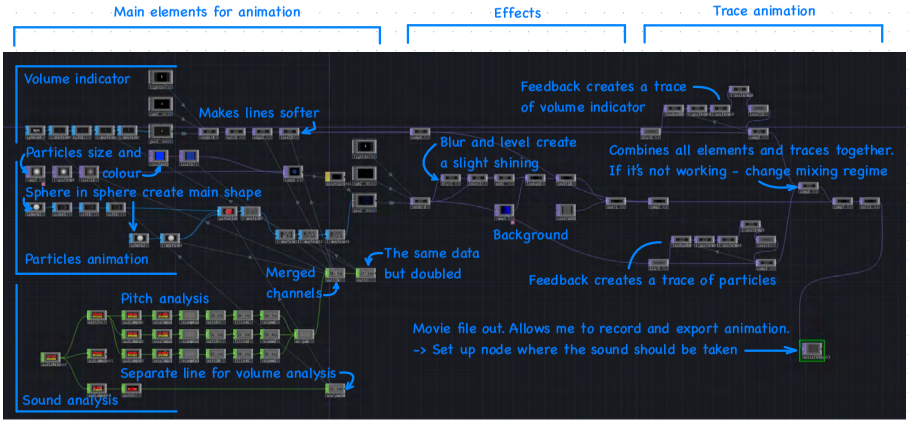
// everything should be sientifically accurate!

THEN
I STARTED
CODING IN
TOUCH DESIGNER

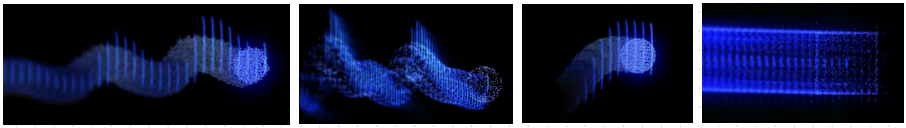
// every single word on this image is not a joke...

// but it works!

Pre-final code

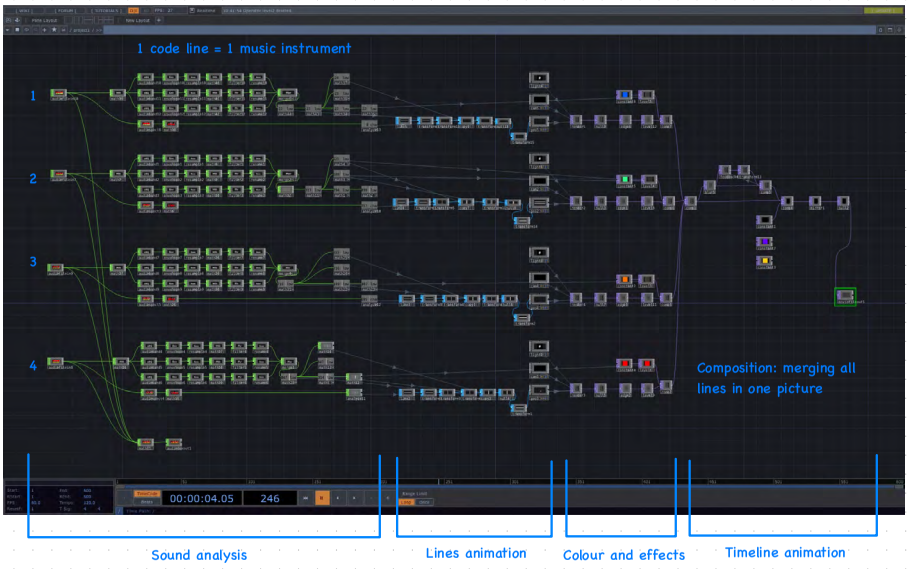


Results

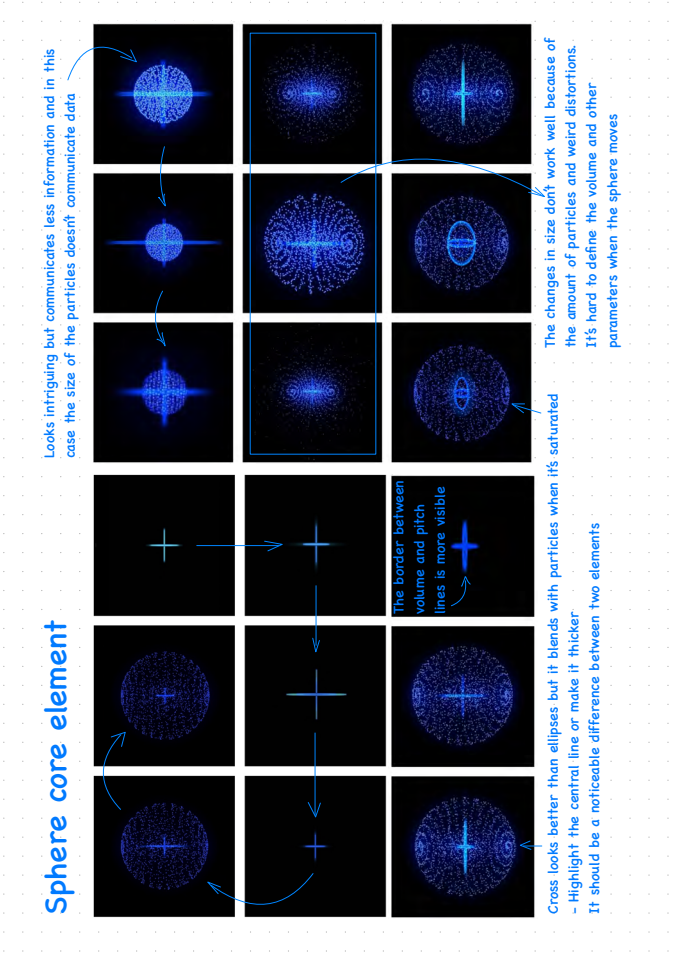


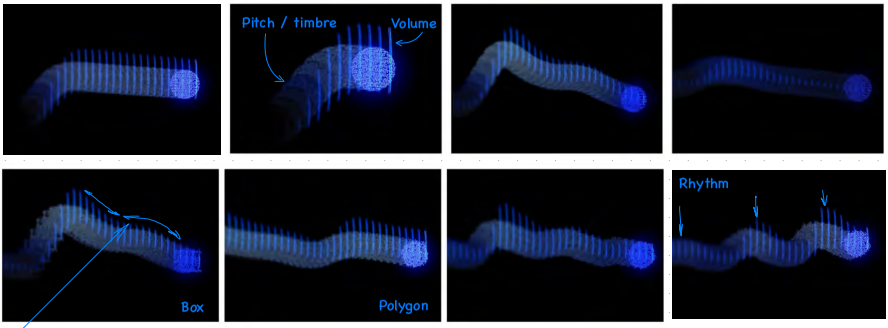
Final code

Mostly the same as pre-final code but adapted for several mp3 files animation



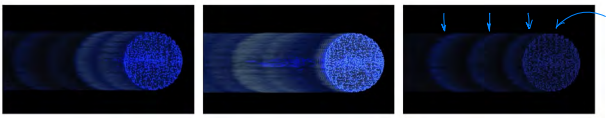
AND EXPERIMENT WITH SHAPES





Ideally it would be great to control the space between lines.
It can show the density which is also a parameter of pitch

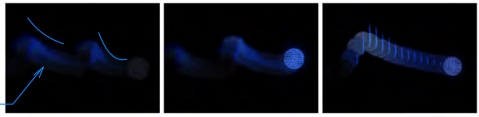
Maybe I can control the thickness of pitch but it is necessary to set up a range of definitions for peak numbers in math node



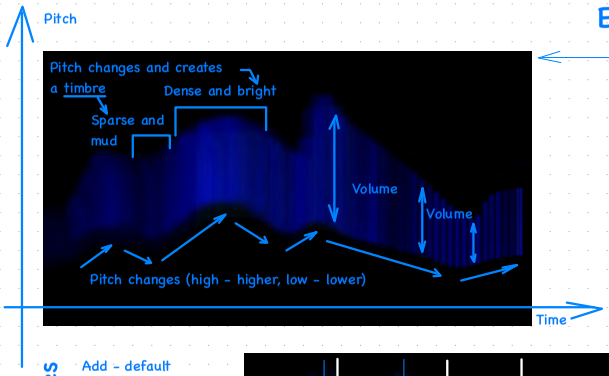
Line without motion can show peaks better but for our persecution it's better to show it by position in space

But the effect is good

I like this smoothness and blurry effect but it shows only the highest peaks of volume and pitch but I want it to be informative for the viewers.
Maybe I can find a way to reach this blurry lines with cropping important data



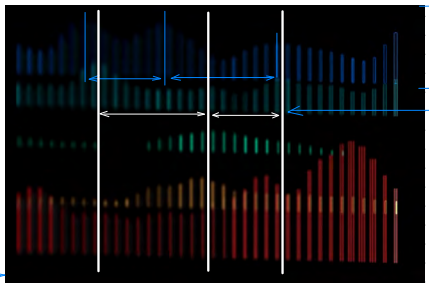
Elements explanation



Inside the instrument line

Mixing regimes

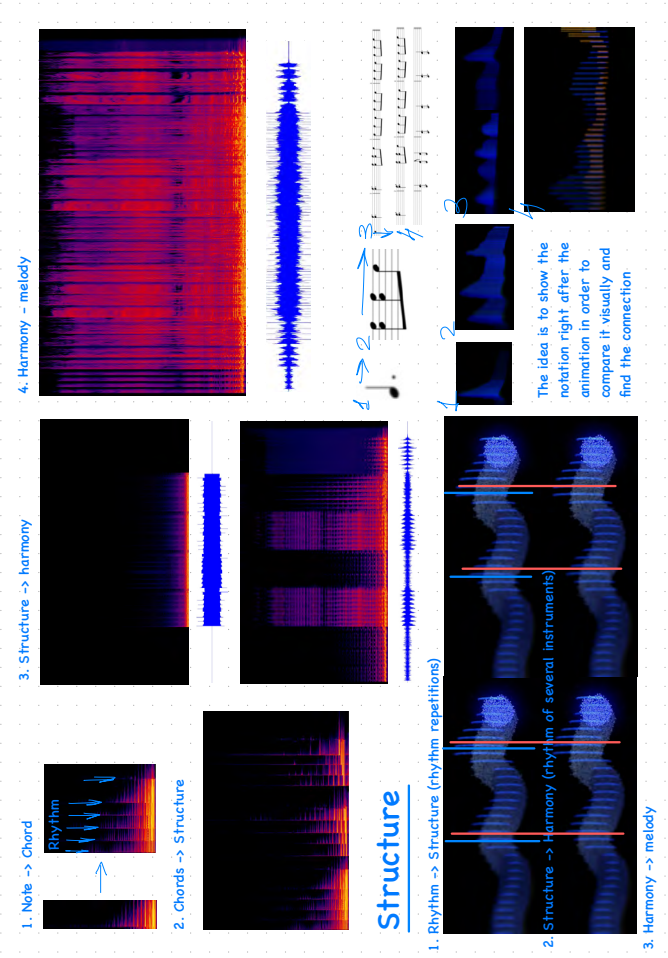
- Add - default
- Brightest
- Lighter colour
- Maximum
- Over
- Printlight
- Screen
- Linear light
- Under

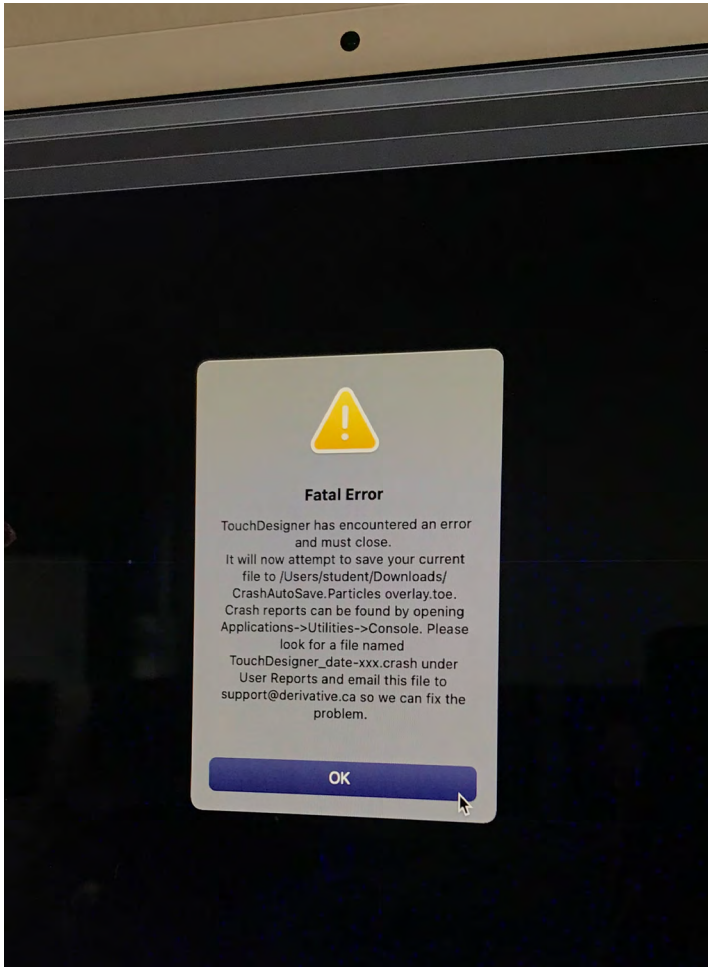


Inside the song structure

Rhythm -> Structure
Structure -> Harmony
Harmony -> Melody

Leading rhythm (white lines)
Chosen by leading instrument
(Here it's a violin cyan)


4. Harmony - melody
3. Structure -> harmony
Structure
1. Note -> Chord
Rhythm
2. Chords -> Structure
1. Rhythm -> Structure (rhythm repetitions)
2. Structure -> Harmony (rhythm of several instruments)
3. Harmony -> melody
The idea is to show the notation right after the animation in order to compare it visually and find the connection


Fatal Error
TouchDesigner has encountered an error and must close.
It will now attempt to save your current file to /Users/student/Downloads/CrashAutoSave.Particles overlay.toe.
Crash reports can be found by opening Applications->Utilities->Console. Please look for a file named TouchDesigner_date-xxx.crash under User Reports and email this file to support@derivative.ca so we can fix the problem.
OK

ENDLESS SAMPLES

a constant loop of youtube tutorials, forum dives, and fixing mistakes.

FULL DAY SESSIONS

battling app restrictions.

FATAL ERRORS

inevitable.

4 WEBSITE PROTOTYPES

mission accomplished: the project has achieved functional status.

// but i know it could be even better, though...