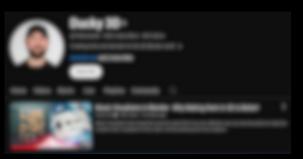
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VISUAIZING AUDIO with interactive objects

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background, pre-production, inspirations



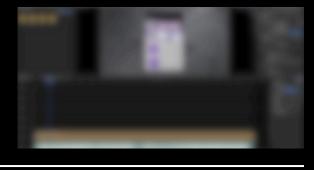
process

production, challenges, anecdotes



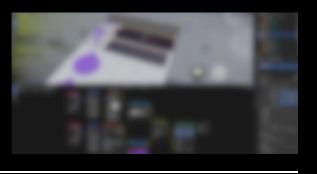
product

final product, new skills learned



reflection

moving forward, what I left out, conclusion



introduction

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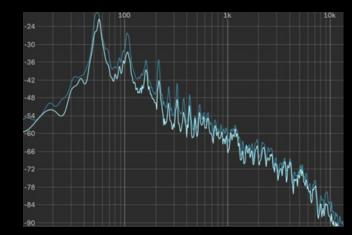
4

Types of Visualizers

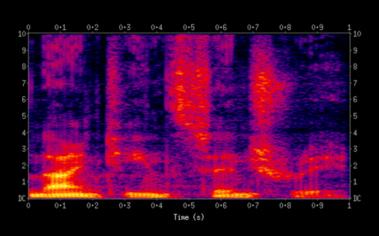
Waveform Analysis (waveform)



Frequency Analysis ("curve" or eq)



Pitch Analysis (spectrogram)



Stereo Analysis (oscilloscope)



why edm?

I think the waveforms in EDM songs tend to be quite interesting looking (and easy to see).

why 3d and not 2d?

I've made a handful of 2D visualizers before, so I wanted to challenge myself.

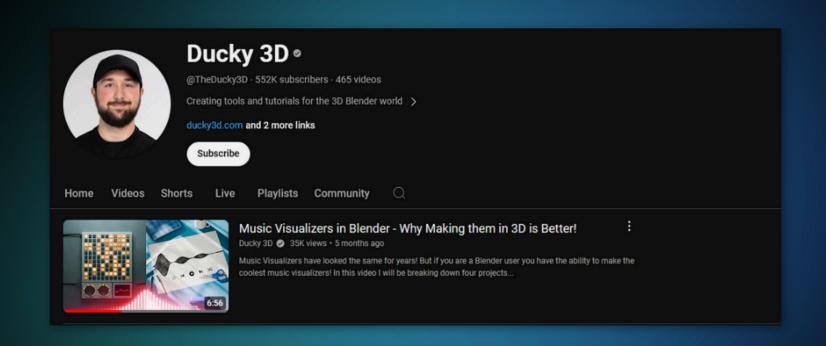
why blender?

It's a free software! It's also a bit easier to pick up than Maya or Cinema 4D (plus more tutorials online).

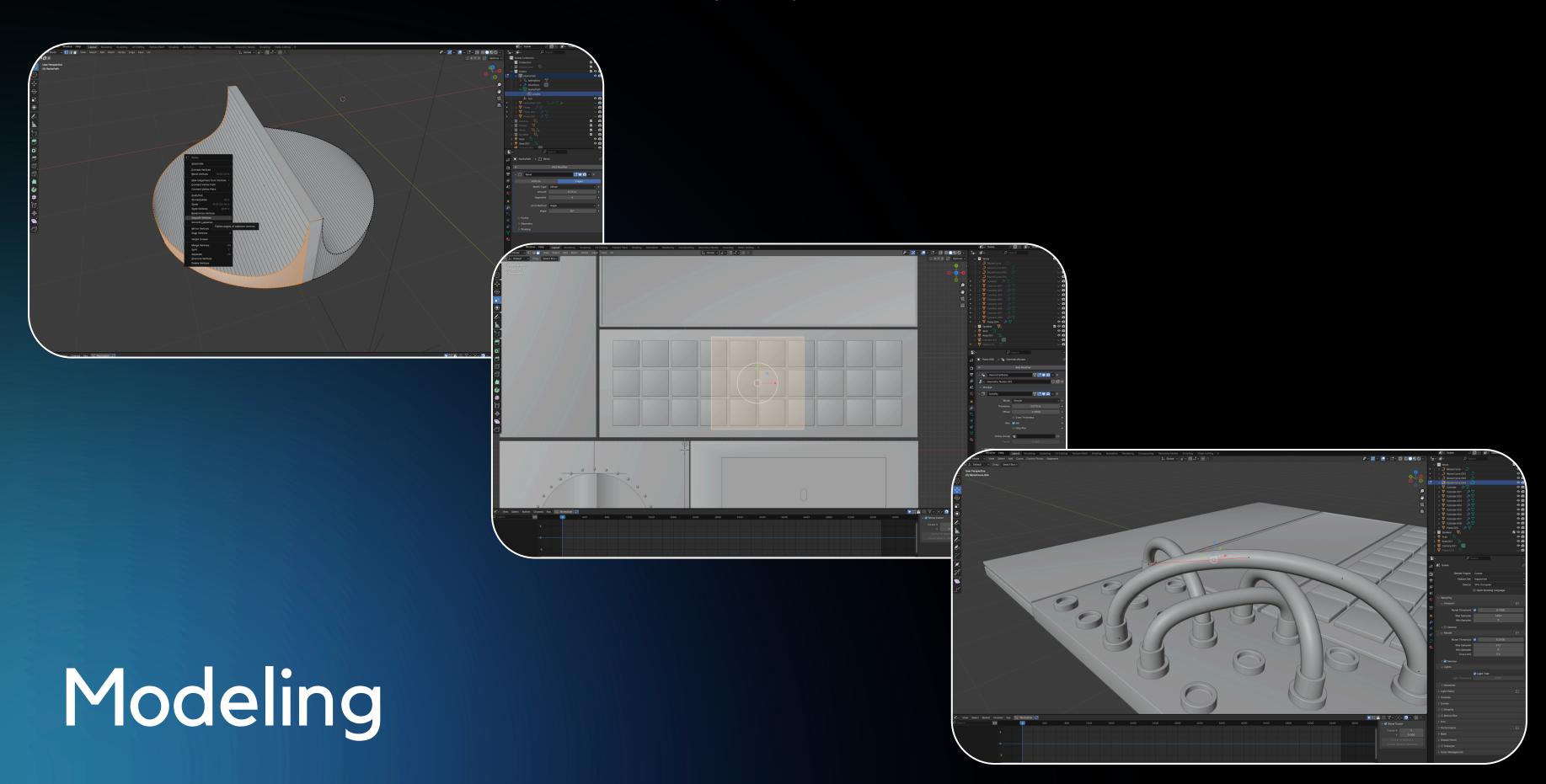
Creating a 3d visualizer

My main reference & inspiration

I followed this really awesome "moodboard-style" tutorial video from YouTuber Ducky 3D! (and his Patreon)



orcess



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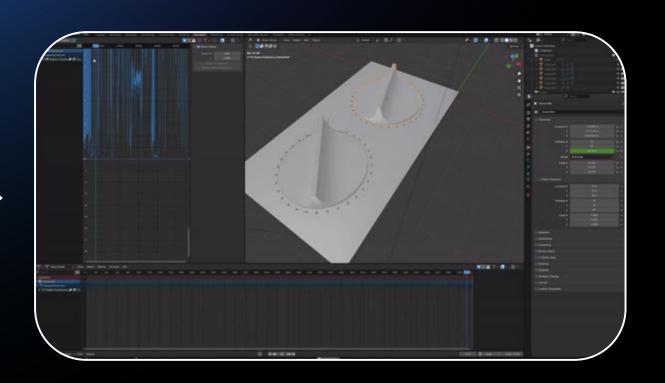
Stem Extraction

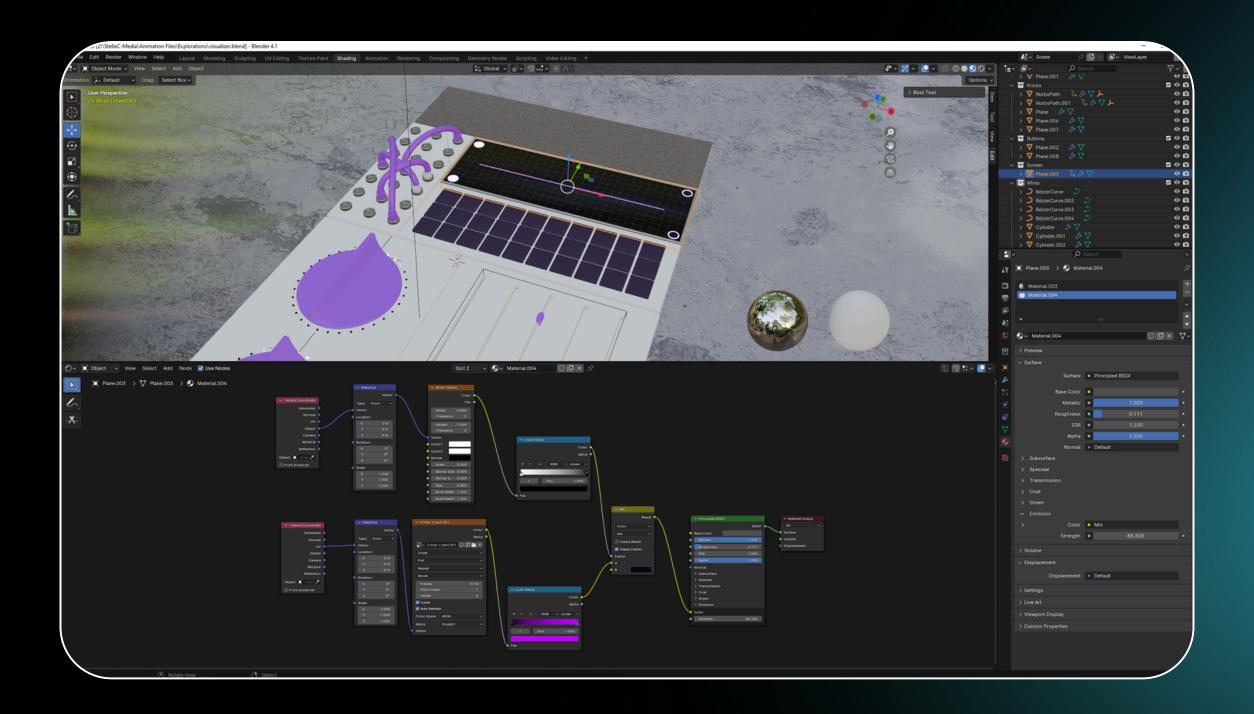


Animation



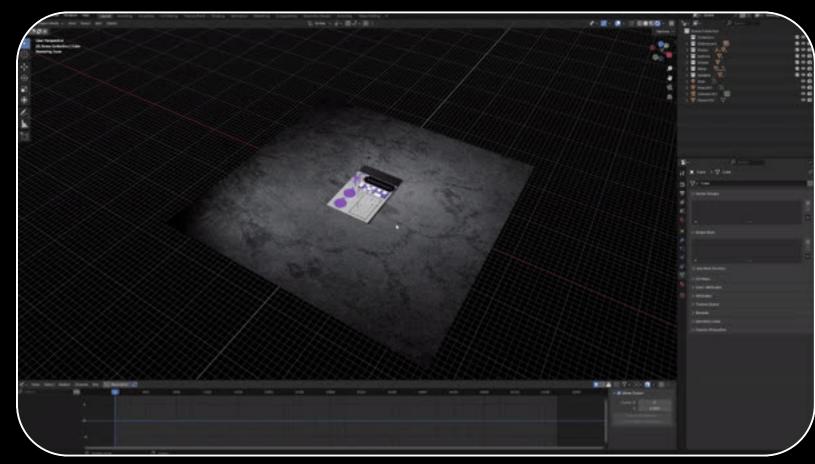
Keys to Samples
Samples to Keys
Sound to Samples
Bake Channels

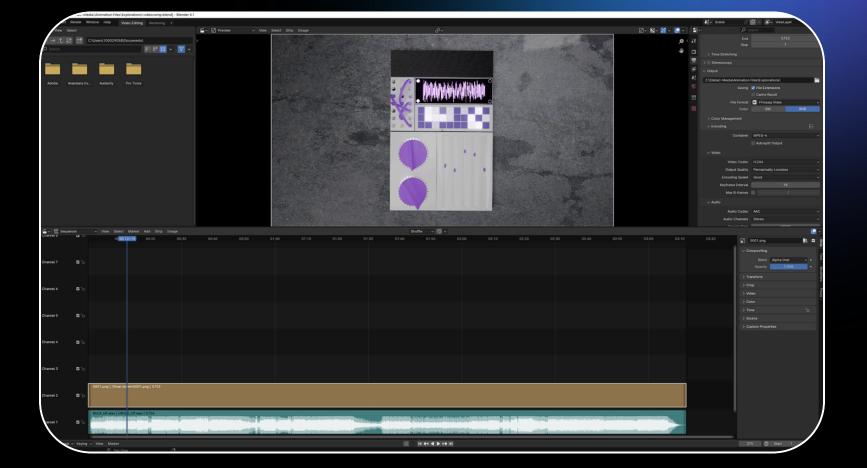




Materials & Shading

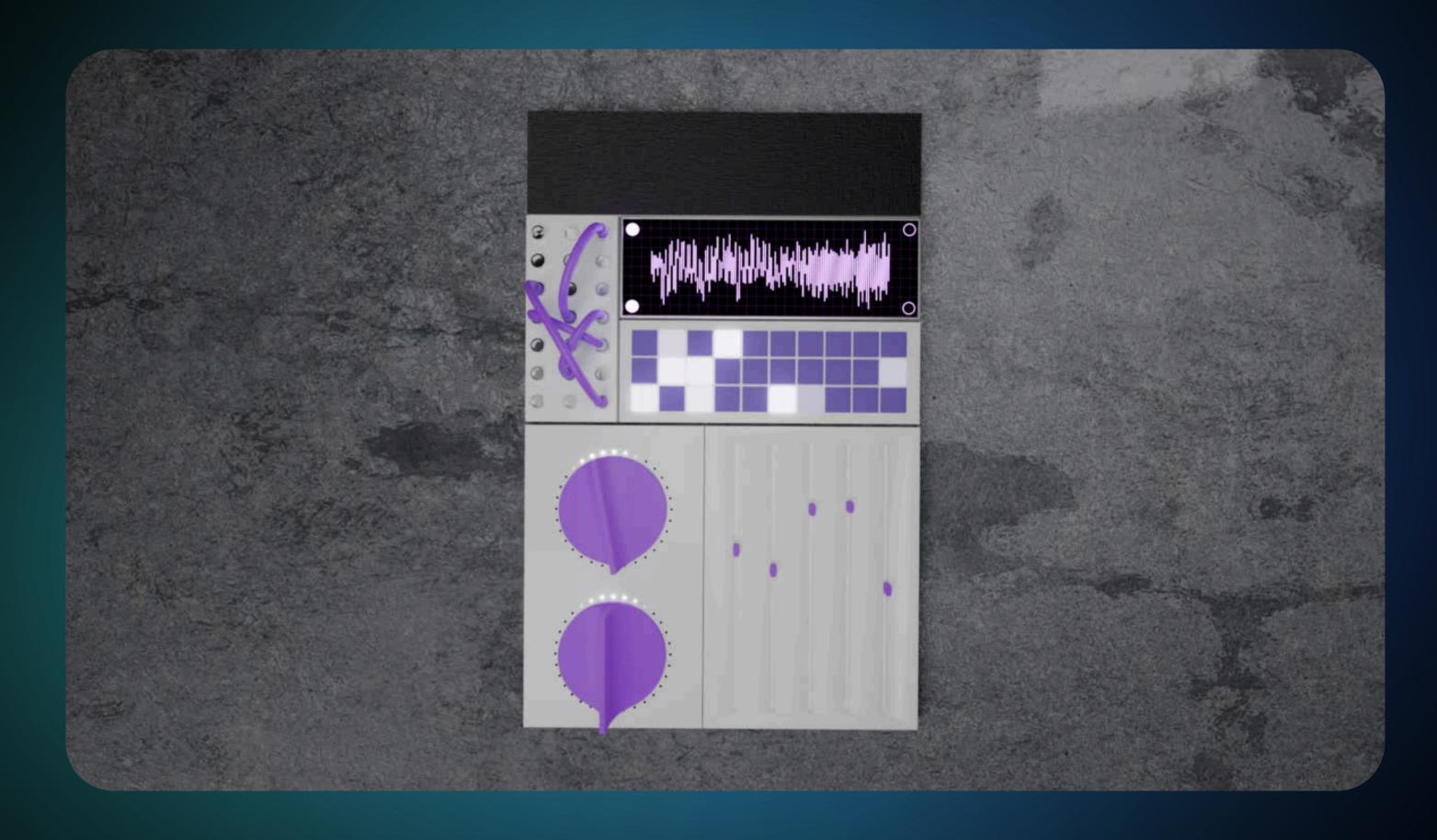
Lighting / Staging





(this drove me crazy)

orocuct



reflections

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Negative reflections

Better lighting

(could definitely be better and more realistic)

More cohesive animation

(unfortunately stem extractors are not perfect)

Less crazy sequencer pad

(i seriously underestimated how nuts the sequencer would go)

Should've attempted a "soft render" first

(it took almost 70 hours of rendering for me to see the final product)

Positive reflections

_____ I know how to use Blender now!

I'd like to use my own music

I now can expand on what I made (more modules, for example)

It actually took a lot less time than I thought

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Thank you for listening!