



# COLLECTED REFRACTIONS

## unfinished booklet

*dotuxil*

# **THANKS TO**

Xenharmonic Alliance

xendergarten

My friends :D

You, the listener!

# **ABOUT COLLECTED REFRACTIONS**

# **ABOUT DOTUXIL**

Hi! I'm dotuXil, a microtonal electronic producer from Tacoma, WA. I like making silly tunes on my living room couch.

# 1. A MULTITUDE OF NEW COLORS

A melodic drum-and-bass track with bright  
and vibrant colors. The approach I used for 14edo  
here is to treat it like two interlocking 7edo scales.

I tried chopping up text-to-speech samples for the first time.

It's fun :}

*Prepare yourself for  
Enter another world; whole new dimension  
Featuring the latest of color  
Unlike anything you've ever seen*

Tuning: 14edo

Time Signature: 4/4

Tempo: 180 (mostly)

# 2. RECONFIGURATION IN PROGRESS

A short little 24edo experiment made in Jummbox.

For each instrument I had them all tuned to 12edo, but  
there were two copies of each and one of the copies was  
tuned up 50 cents, which allowed me to use quartertones and all  
the other intervals that came with them.

Tuning: 24edo

Time Signature: 4/4

Tempo: 150

# 3. FROST BATTLE

Hi Abnormality!

I saw you liked Frost Battle a lot, so I put it in the album.

My approach here was playing around with the 'warped diatonic' and also  
the two interlocking 5edo scales.

Enjoy :D

Tuning: 10edo

Time Signatures: 4/4, 3/4

Tempo: 180 (mostly)

## 4. PORKY SPACEFLIGHT

When working on this track I imagined a porcupine in a spacesuit in their specially crafted porcu-rocket soaring through the vast space of a retro

porcu-space. Why a porcupine? Well, it's cause I'm using porcupine[8].

Thanks Jett Mance for giving me some .dx7 files I could load into daxed :)

Tuning: 22edo  
porcupine[8]

Time Signature: 4/4  
Tempo: 180 (mostly)

## 5. ODD HARMONIC

This track is pretty odd. Why? Because I'm using Bohlen-Pierce! BP is very odd and spacey, and is very good at approximating odd numbered intervals, and even repeats at an odd harmonic. To think that a scale like this, which you could think would sound very discordant is now utilized by many musicians today to create many flavorful compositions!

Tuning: 13ed3 (with octaves)  
Time Signatures: 4/4, 5/4  
Tempo: 180 (mostly)

*13 equal divisions of the tritave (13edt) is the nonoctave tuning system derived by dividing the tritave (3:1) into 13 equal steps of 146.3 cents each, or the thirteenth root of 3. It is best known as the equal-tempered version of the Bohlen-Pierce scale. 13edt can be described as approximately 8.202edo. This implies that each step of 13edt can be approximated by 5 steps of 41edo.*

Odd Harmonic lyrics from the 13edt page on the Xenharmonic Wiki: <https://en.xen.wiki/w/13edt>

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## 6. CHEAT CODES

A remaster of an old track of the same name from 2022 (included as a bonus track).

The vibe it takes on here is very different from the original, and the energy level has spiked. As such, you can expect to bop your head to the rhythm. 19edo isn't all too different from 12edo (standard tuning) since they both support meantone and are similar in size. I took a diatonic-focused approach (because I was translating a 12edo track into 19edo) but also sprinkling in some of the extra notes between the new gaps for novelty. There are also more adventurous resources in 19edo, like semaphore, but that's saved for another time.

## 7. ICEBOUND GALLERY OF REFRACTIONS

Probably my favorite track from this album.

I wanted to give it a unique vibe- well, I don't know how to describe it exactly, maybe nostalgic? Unreal? Either way, I think Icebound encapsulates the vibe I was going for perfectly, so you can make up your own descriptions. I imagined an intricate maze made up of ice with paintings nailed harshly into the walls; and as you go deeper, the worlds depicted on the canvases start getting more familiar, almost as if they've been depicting snapshots of your life and dreams this whole time.

This is the Icebound Gallery.

Tuning: 19edo  
Time Signatures: 4/4, 5/4  
Tempo: 180 (mostly)

Tuning: 35edo

3:2 blackwood[10]

Time Signatures: 4/4, 19/16  
Tempo: 140, 180

## 8. ENTER NIL

My approach for using 22edo here is to just mess around, and occasionally mix around diatonic and porcupine.

I tried to paint the image of sunrise.

The title for this track is actually taken from a really, really old track of mine. I did at some point try to incorporate some of the old ideas into this track, but they're barely recognizable now.

This track is also the one that's taken the most revisions for me to complete. I'm pretty sure I have a total of 8 project files dedicated to this track, and that's because as I improved I kept pointing out mistakes to myself that I made, and my first course of action upon realizing those was to make another project file. Eventually, I decided enough is enough, and after mixing and mastering I called it done. I still think one more revision is due, but I feel like it'll be in a couple years.

## 9. WATERPAD

An ambient track named after a watery pad I made when I told myself I wanted to dip my toes into sound design.

The same pad I made here is also used in two other tracks- Can you guess?\* I like the water. It's a pretty versatile concept for any medium, really, since it's everywhere, and can take multiple different forms and behaviors. But contrary to that, I am dehydrated often. I would like to drink water more often.

Writing piano parts in just intonation is fun.

Tuning: 22edo

Time Signatures:

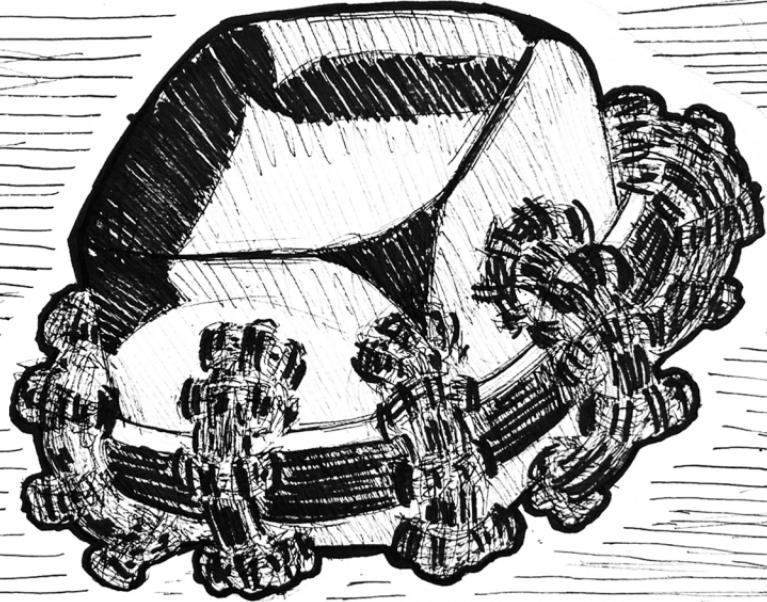
6/4, 4/4, 5/4, 17/16

Tempo: 180 (mostly)

Tuning: Dekany 1 3 5 7 9

Time Signature: 4/4

Tempo: ?



***Thanks for listening!***



# COLLECTED REFRACTIONS

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*dotuXII*