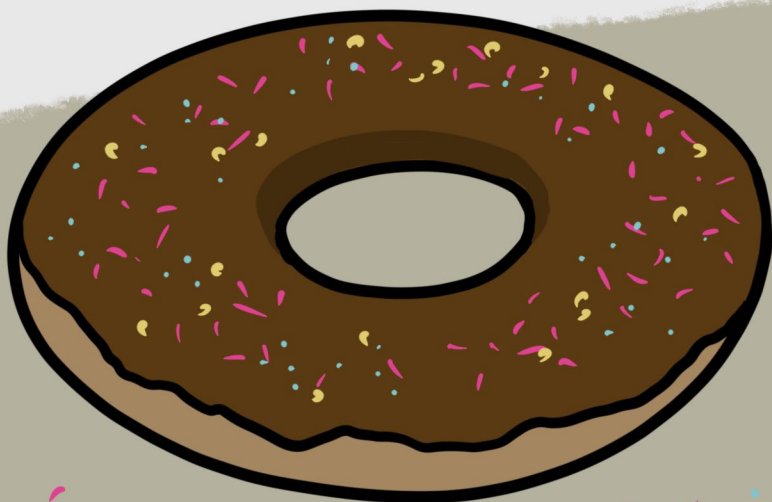


THE DOUGHNUT FLUTE



FLUTE DISCLOSURE

Although it's true that the title suggests this to be a minor work on making a flute (and a doughnutty one at that), any such claim must be categorised as a falsehood.

Yes, you've been clickbaited.

The instrument that follows is not a flute but a variant of what is lovingly known as a Helmholtz Resonator.

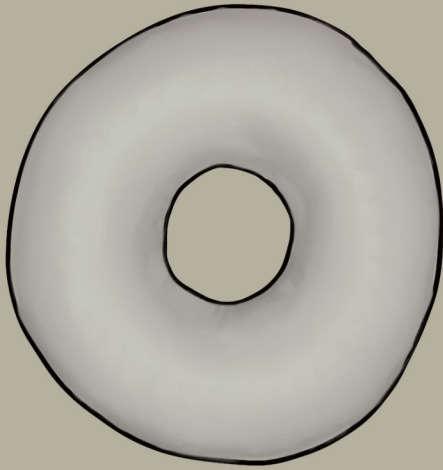
Now be honest, would you have willingly looked at something on the lines of 'Make your own Doughnut Helmholtz Resonator'?

I stand vindicated.

At any rate, now that you're here, let's make a Doughnut Helmholtz Resonator together!

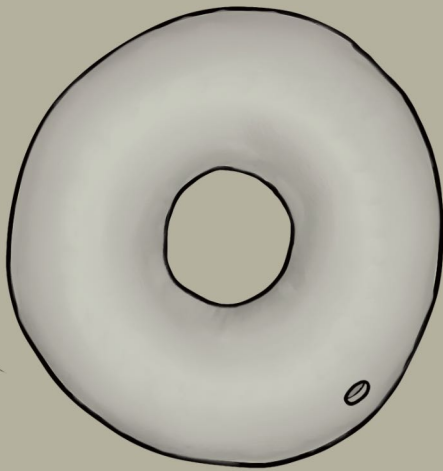
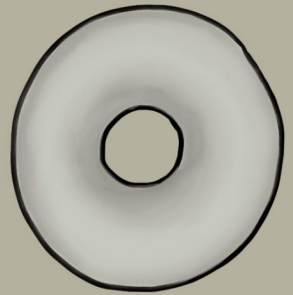
(P.S.: The doughnut is inedible. It's ceramic. Ouch.)

Before we get muddy, some fundamentals to consider:
The sound of thy doughnut is governed by the
trinity of Volume, Size of openings & wall thickness



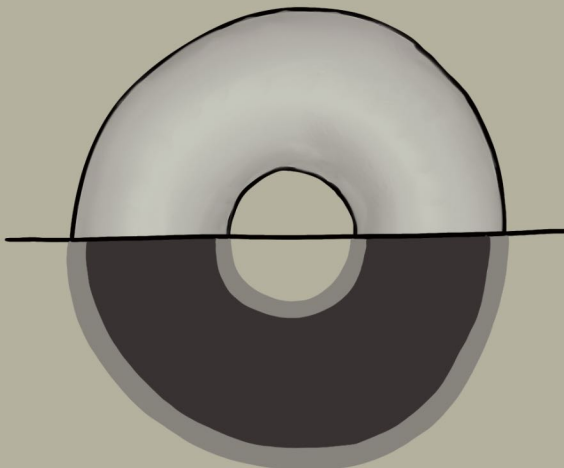
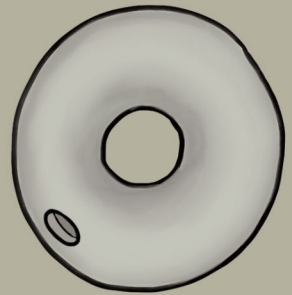
VOLUME

"larger the
doughnut,
lower the
pitch"



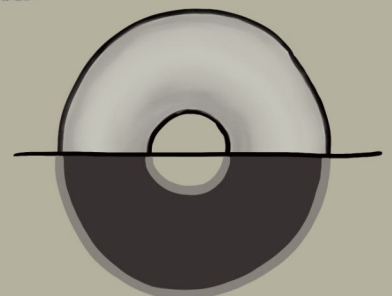
OPENINGS

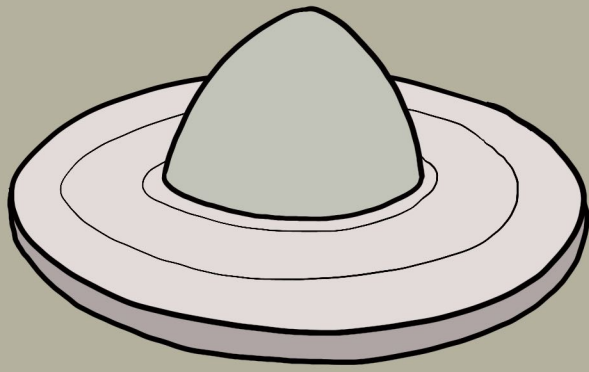
"smaller the
openings,
lower the
pitch"



THICKNESS

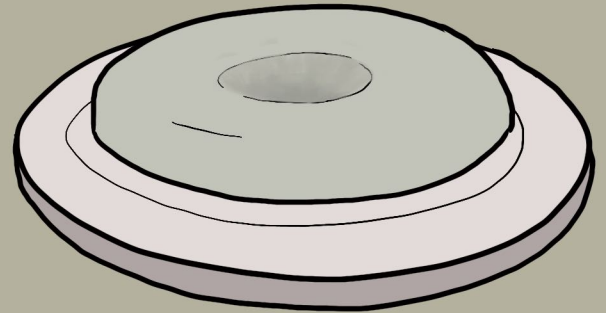
"thicker the
doughnut,
lower the
pitch"



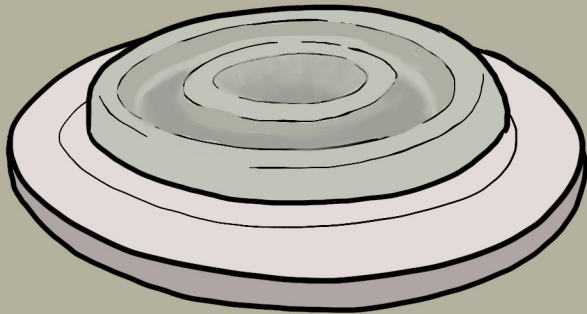


With the trinity in mind,
center some clay
on the pottery wheel

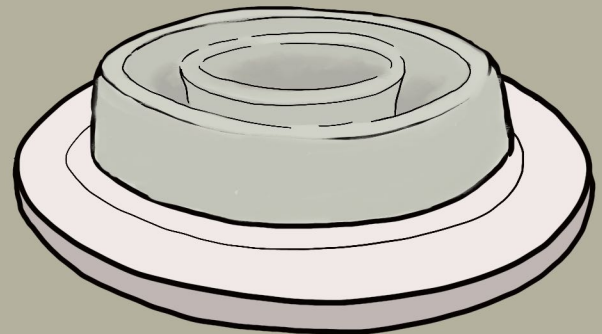
Flatten it, and open
the core all the way down



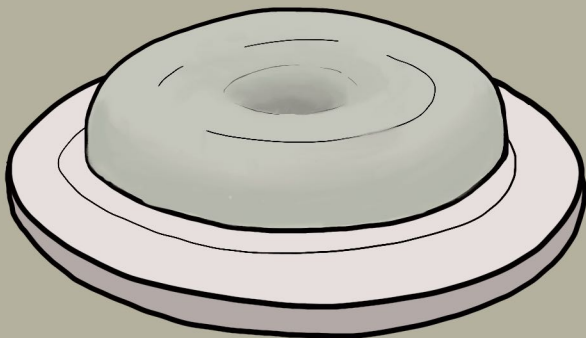
Create a channel



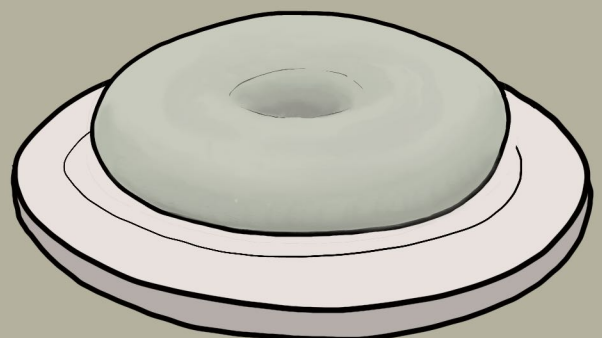
Raise either sides
of the channel



Marry the walls together

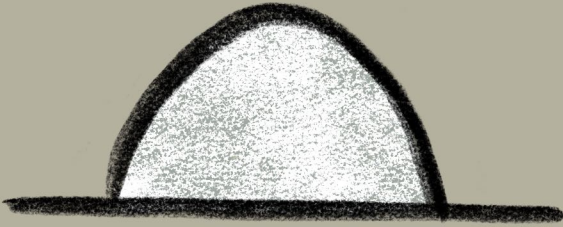


When leather dry,
flip it over and trim

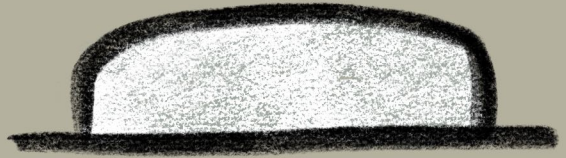


It might be easier to see in section:

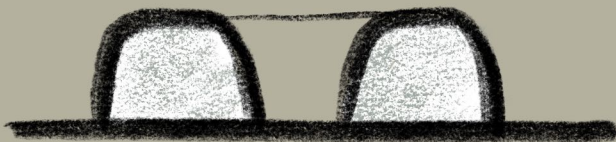
① CENTER



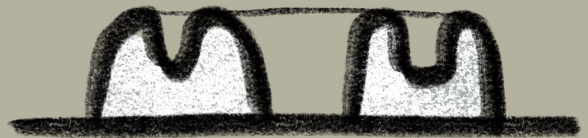
② FLATTEN



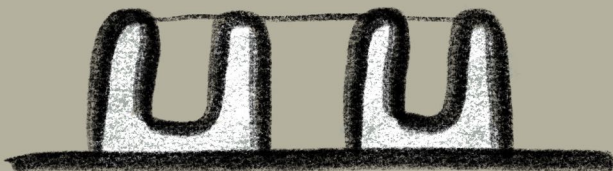
③ OPEN CORE



④ CHANNEL



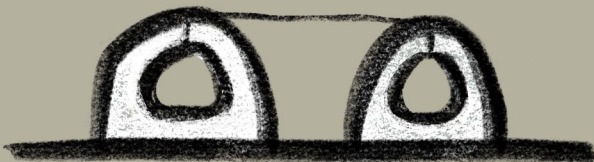
⑤ WALLS UP



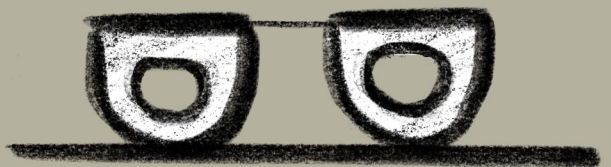
⑥ COURTSHIP



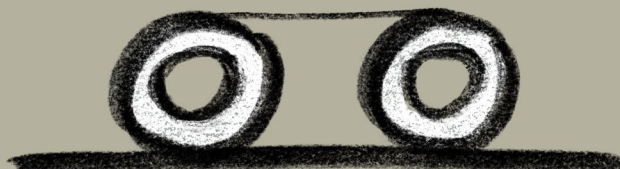
⑦ MARRIAGE



⑧ LEATHER DRY-FLIP



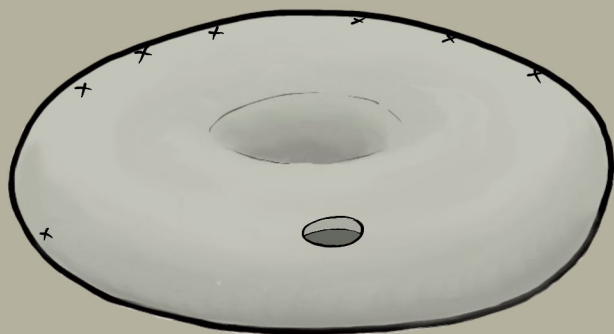
⑨ TRIMMED DOUGHNUT





Here's our freshly
trimmed doughnut

Make a blowhole
to sound the note
you want (TRINITY ALERT!)



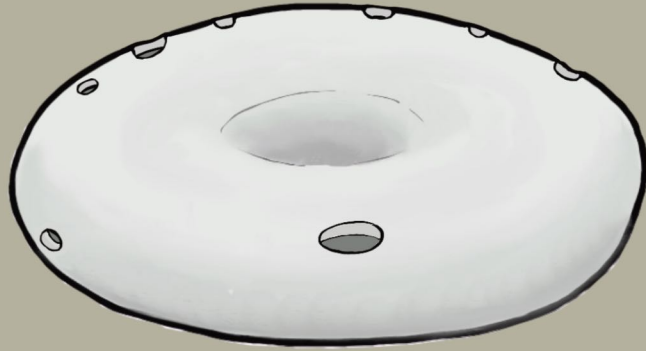
Locate toneholes
as per convenience

Make toneholes
one by one
while tuning them
(TRINITY!)



All toneholes done!
finetune where
necessary

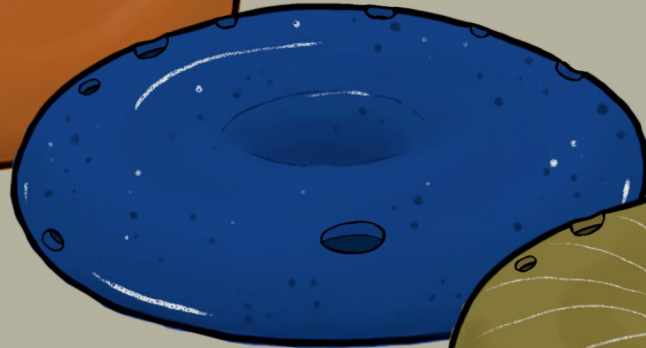
The fired doughnut will shrink a bit depending on your clay, which will raise the pitch by a corresponding bit.



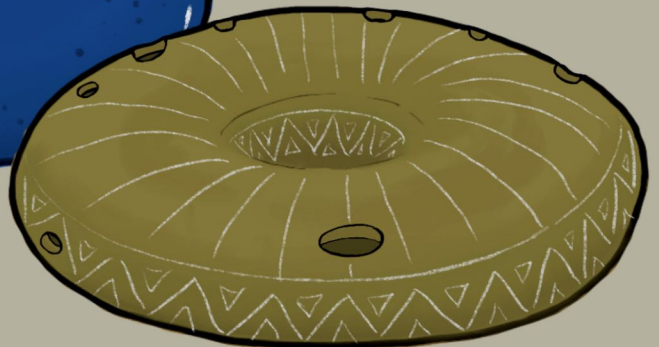
At this point you can dive into the world of finishes



Slips



Glazes



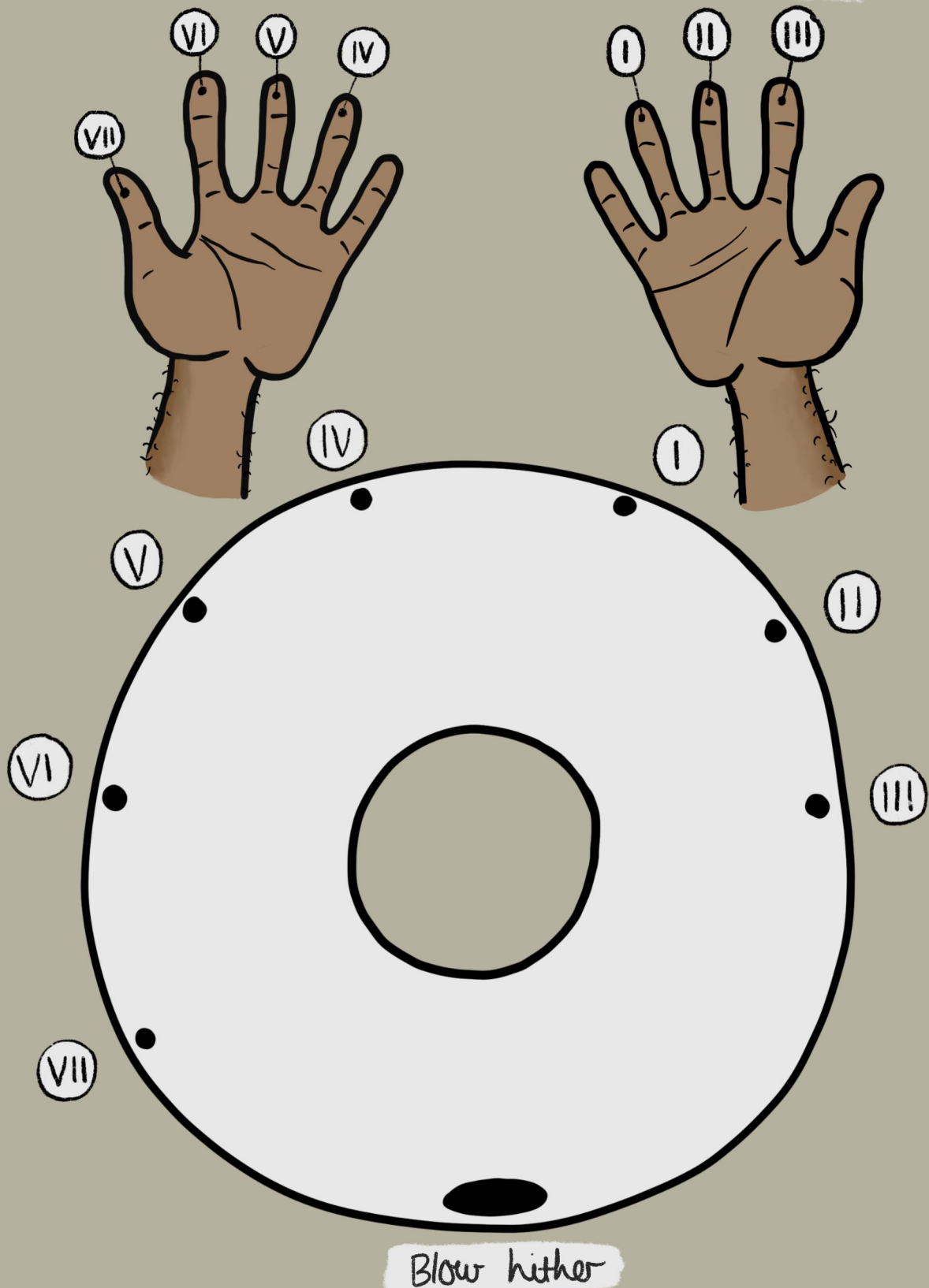
Patterns

etc.

That's about it! From now on it's you and your Doughnut Helmholtz Resonator!

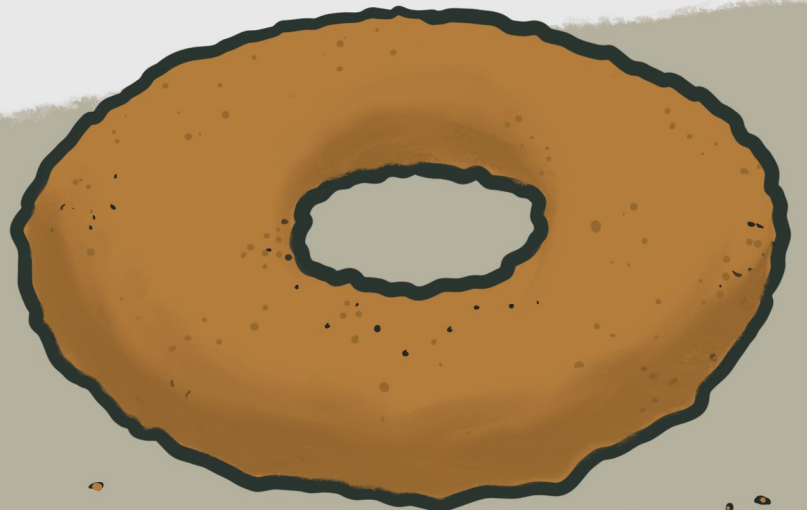
APPENDUM

Although so many toneholes are not necessary, the following layout may feel intuitive to flute players



NOW WITH EVERY COPY OF A DOUGHNUT FLUTE
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THE MEDU VADA BANSURI



dabloodabloodabloodotsoarhubdotin