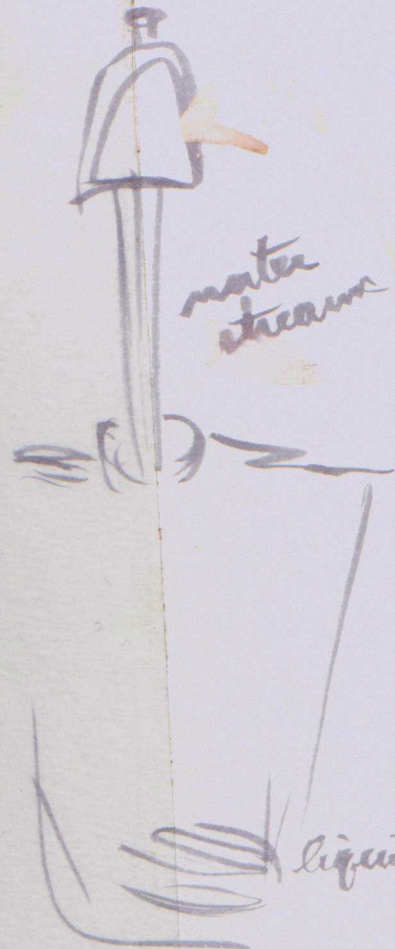


Poetics of
Matter

Spring 2025

Jovana
Garrilovic

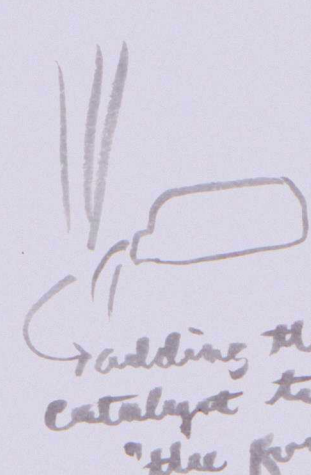


water stream

a force, a cause, a motivating force



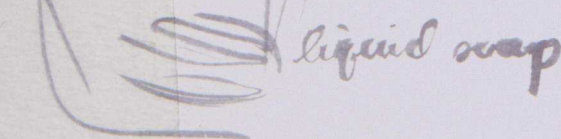
without the force, the soap means nothing



adding the catalyst to "the force"



density, height



liquid soap

Bubbles... at the edges
foam - clouds.
Colors - water -
force no-
delicacy.



soft texture -
reminiscent
of clouds



There's a sculptural element.

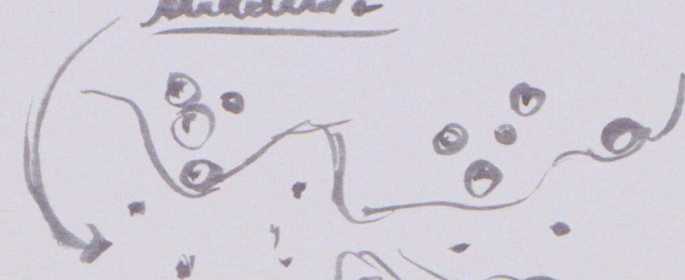
monolithic color

a "crest" forms as a result of where large bubbles form.



"coasts" of more substantial bubbles as anchors

Madness



sticking to the wall.



molding to my hand.



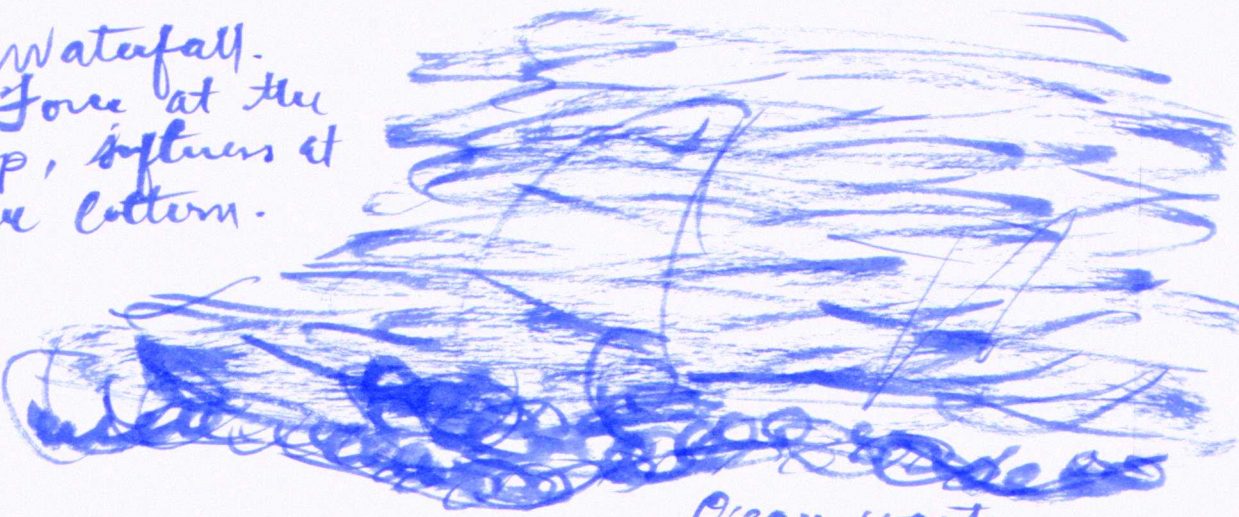
clump-like.



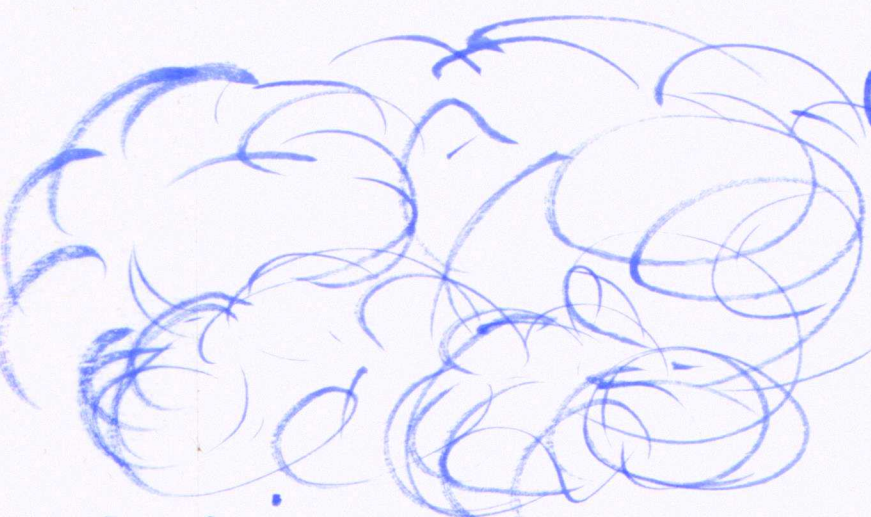
Bubbles, foam, clouds, Coasts, Oceans, waterfalls, delicacy, sculptures.
soft n. hard, power leading to a softness...



Waterfall.
Force at the
top, softness at
the bottom.



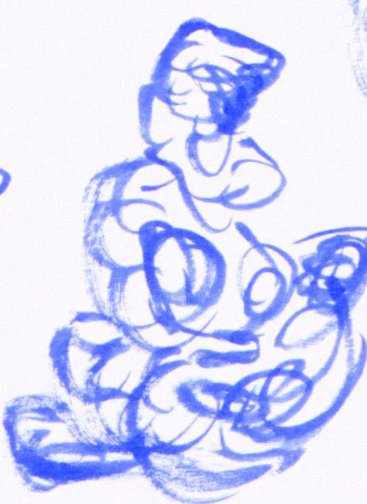
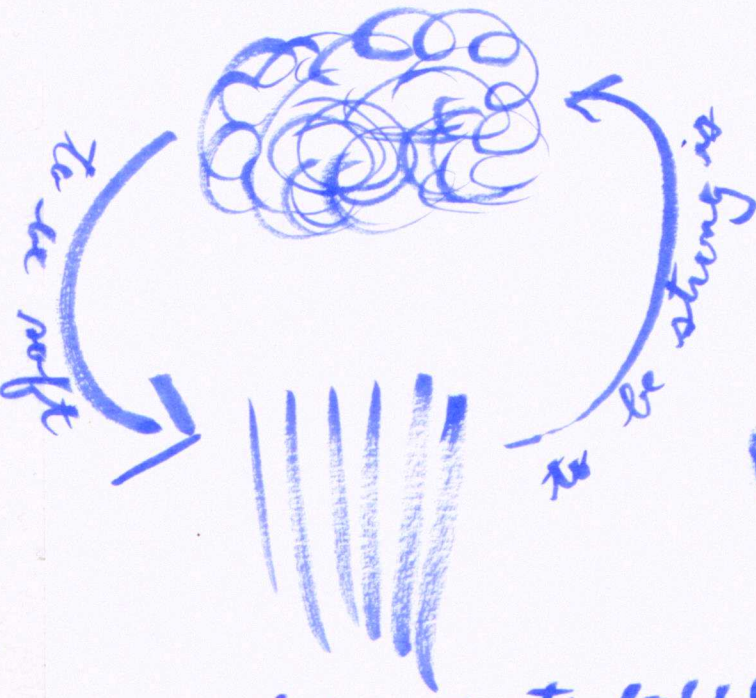
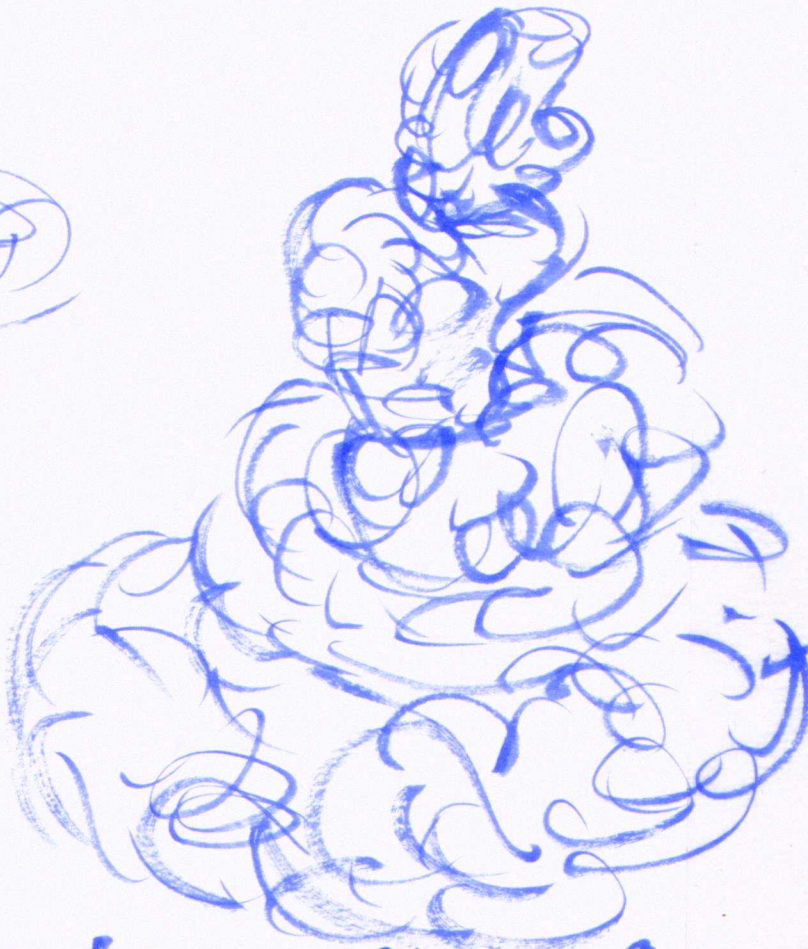
Ocean waves,
strength of waves crash to
create seafam.



are clouds
bubbles?



when it rains, is the
process inverting itself?
force from delicacy?



foam sculptures. A
medium opposed to the
standard? i.e. stone, metal.

negative space inherent to bubbles.

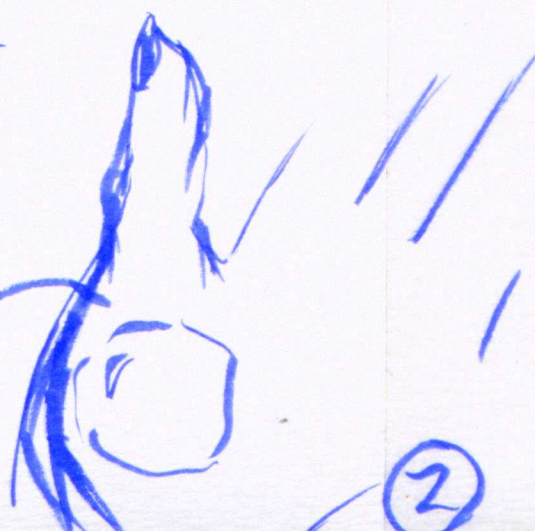


what is a bubble
without a mid?

demonstrates that strength & softness
are inextricable.



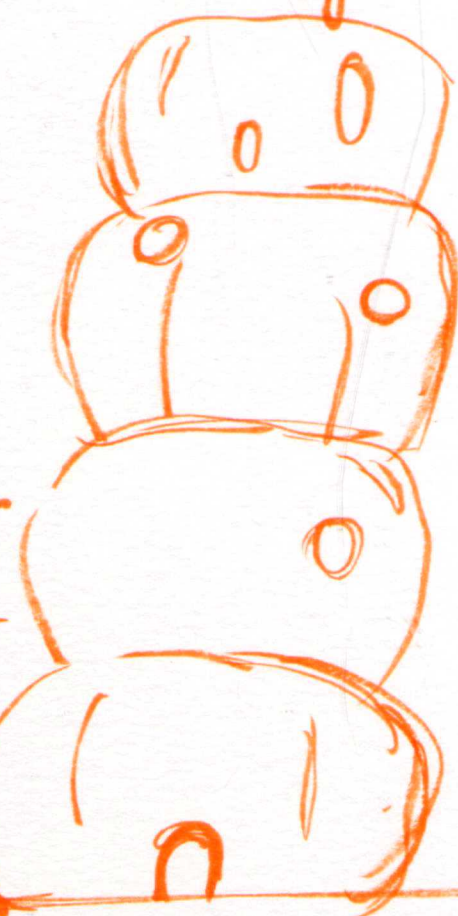
I burnt my hand
a bubble formed. heat & pain,
the bubble is healing.



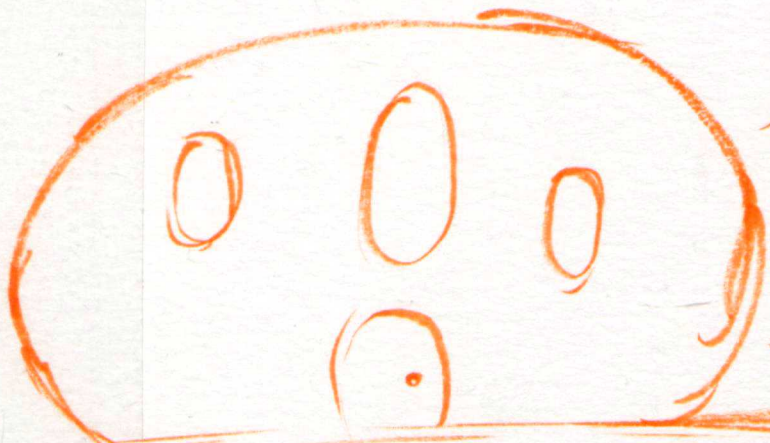
1. Buildings that rely on lightweight materials : negative space.



NYC
is
sinking.



spherical
building. light-
weight. simple.
Rounded & soft, not
angular & hard.

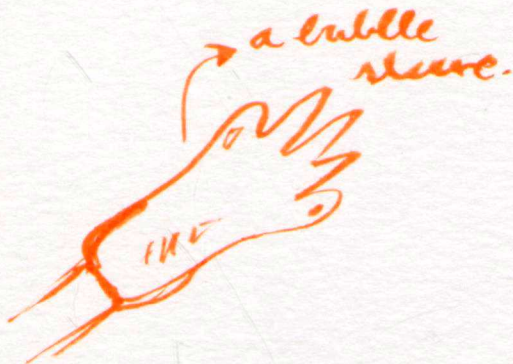


could rounded homes withstand
more chaotic weather re: climate
changes?

2. The body naturally uses bubbles (blisters) to heal.



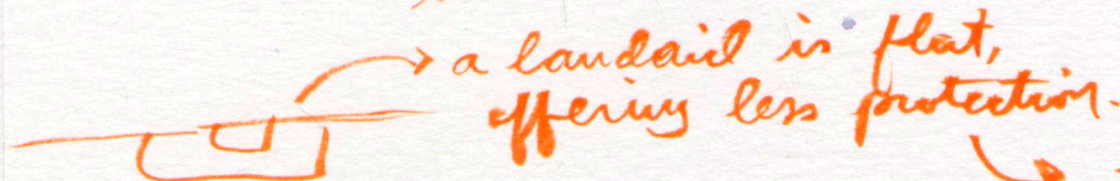
scratch



a bubble
blist



bubble
patch.

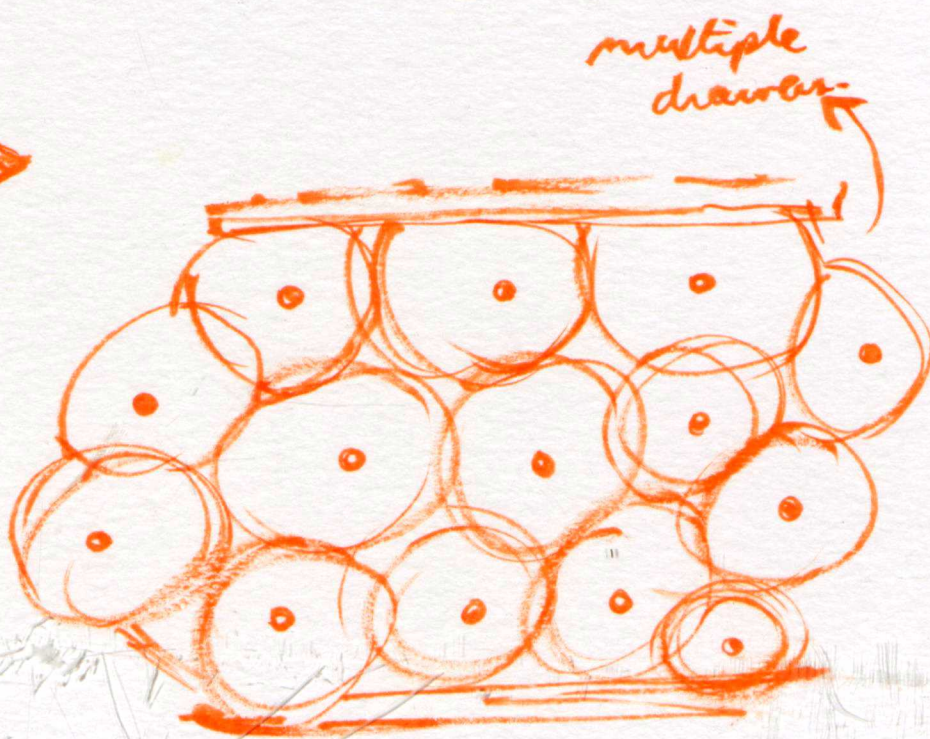
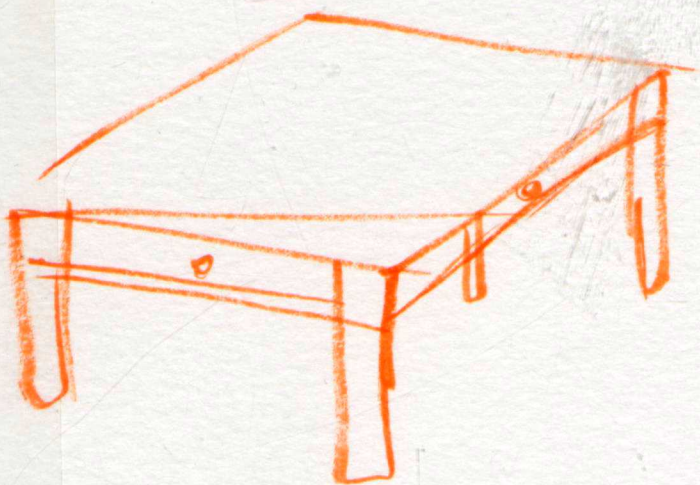


a bandaid is flat,
offering less protection.



more surface
area to
protect a
wound.

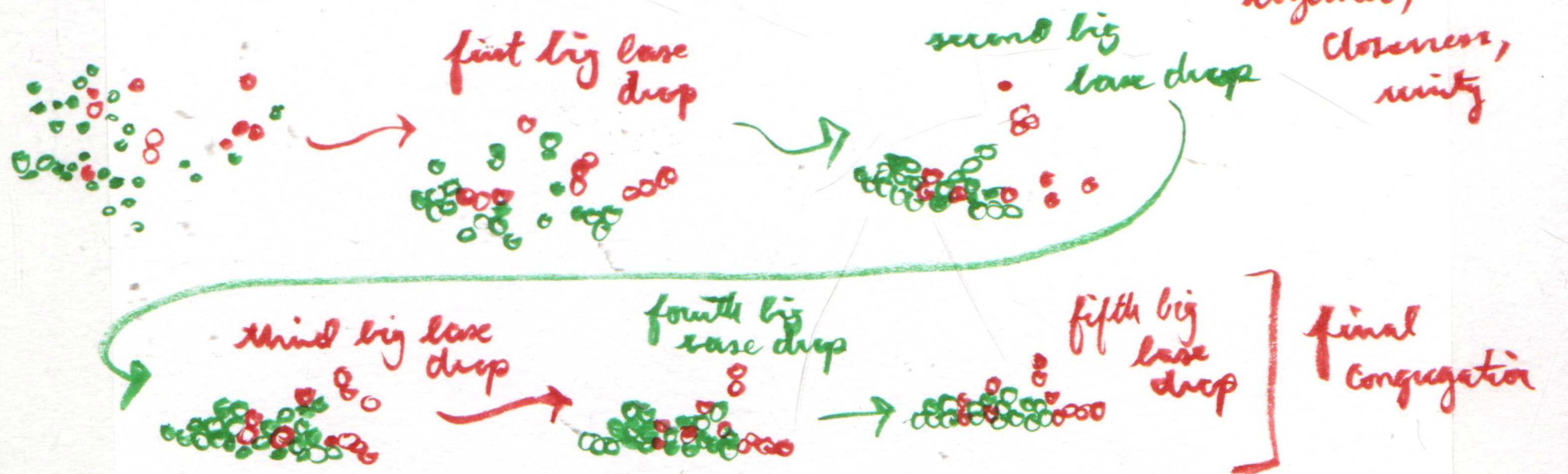
3. Surface area & volume ratio → furniture for smaller spaces, for more storage.



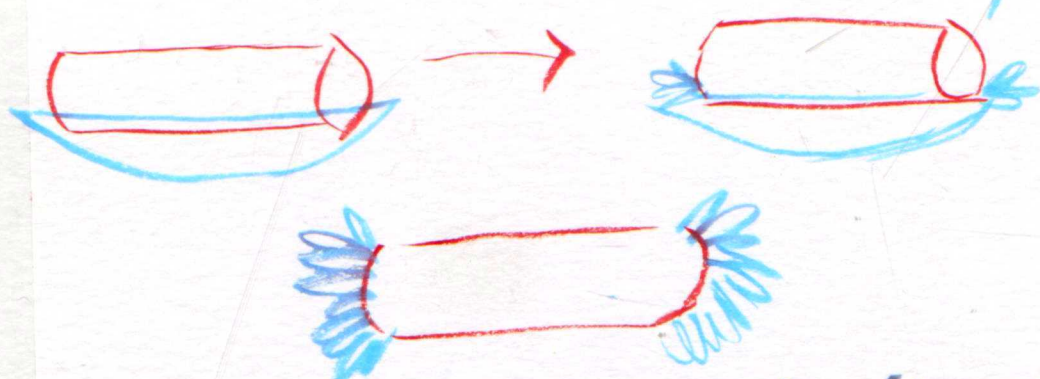
multiple
drawers

Resonating w/ Sound Vibrations - visualizing music.

"Remains" by Volker Bertelmann



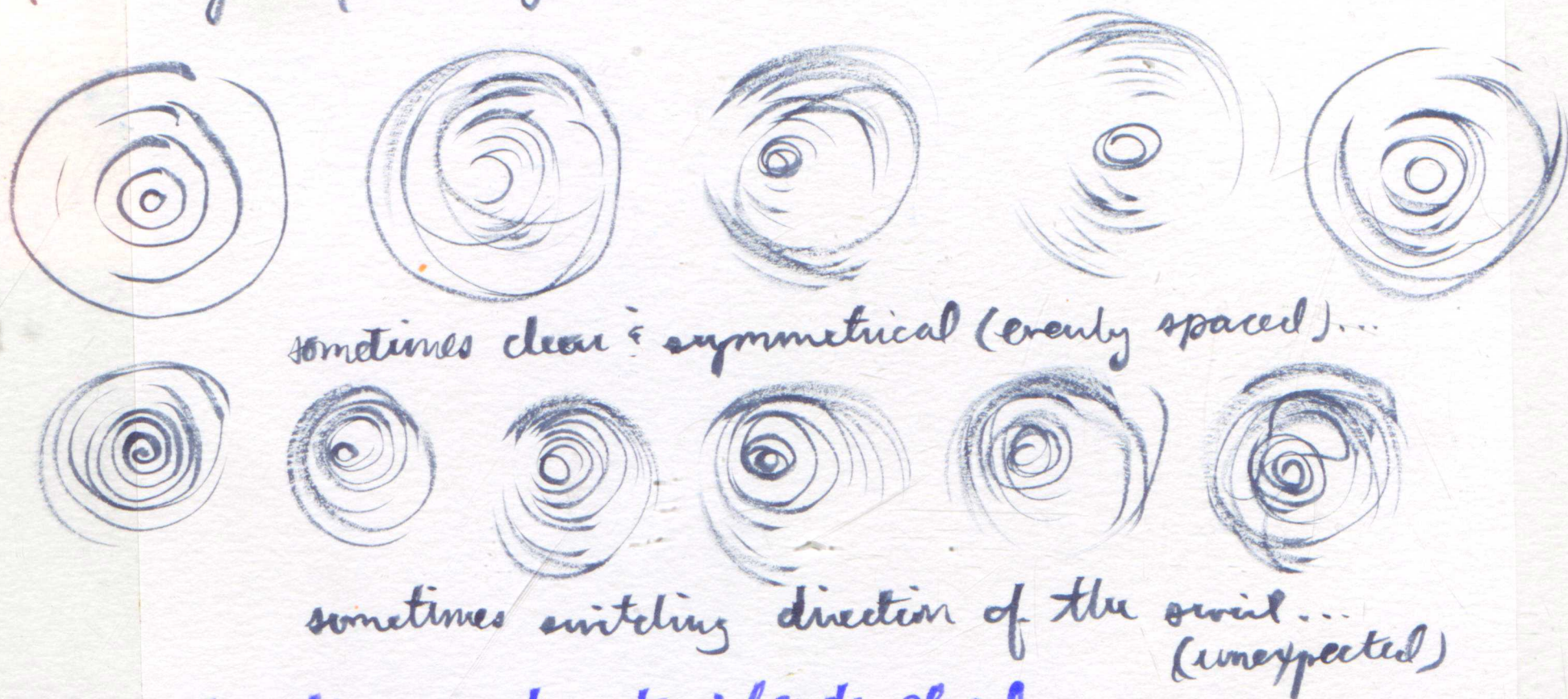
Placing "waterproof" speaker in water...



while I expected the front of the water to splash, the water at the sides of the speaker did - direction of sound vs. expectation of product design.

"Me and You Mama" by Childish Gambino

water cup placed on speaker

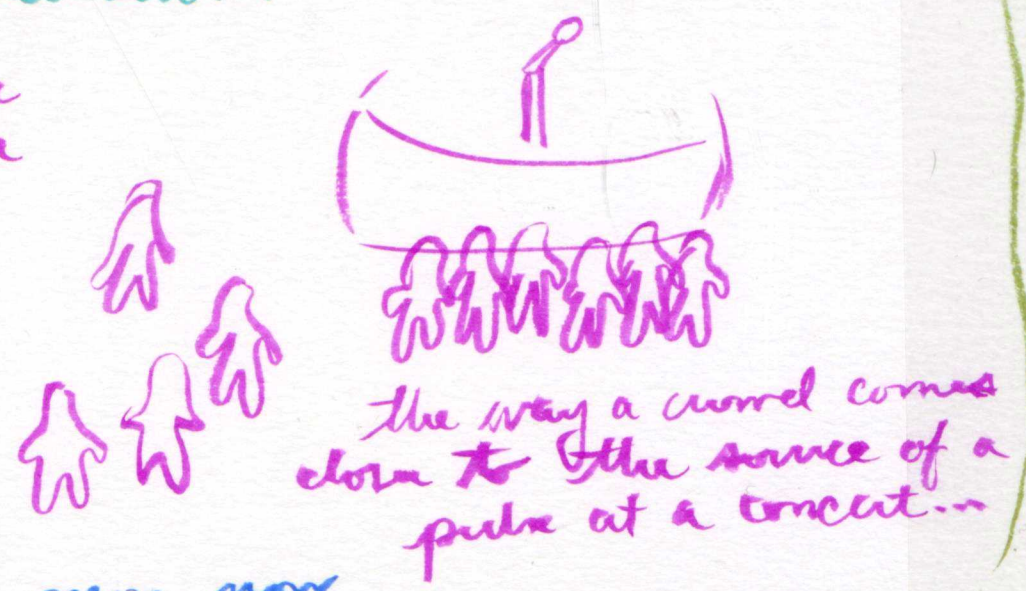


When attempting cup of water + beads placed on speaker, it was stagnant. The vibration wasn't enough to override the "stickiness" of the water to beads. Resonance requires particular conditions - timing & strength.

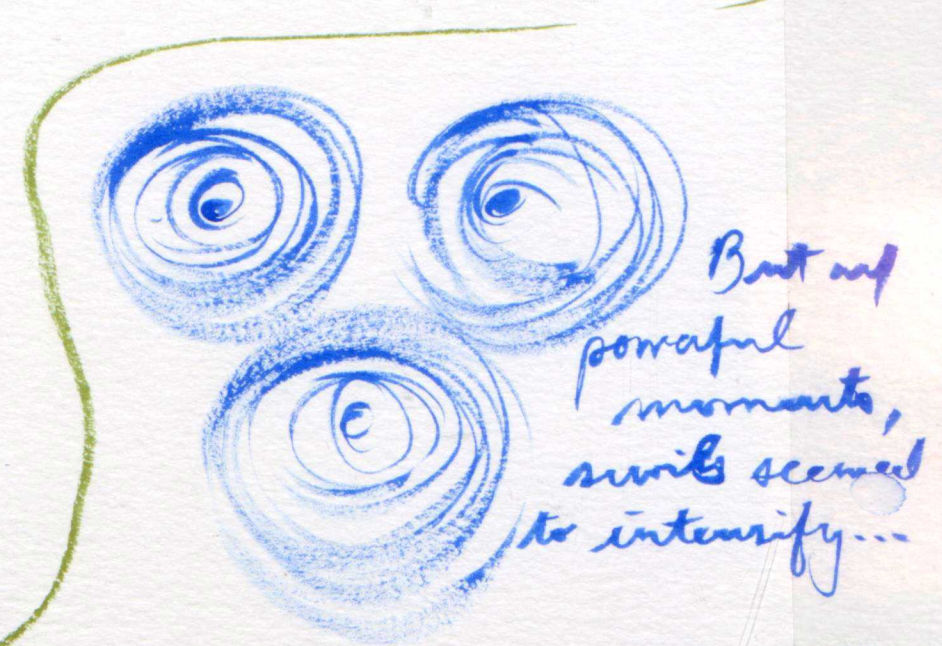
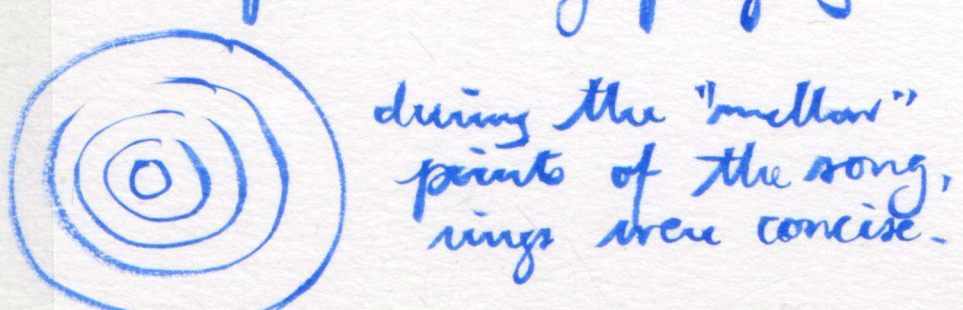
Beads + musical vibrations reminded me of the flock of birds I saw this morning over Union Square park...



The resonance of vibrations reminds me of the underlying "pulses" that connect us - make us human...



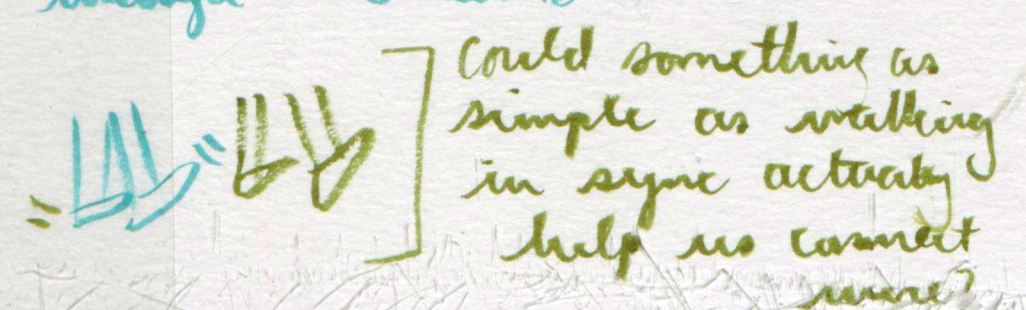
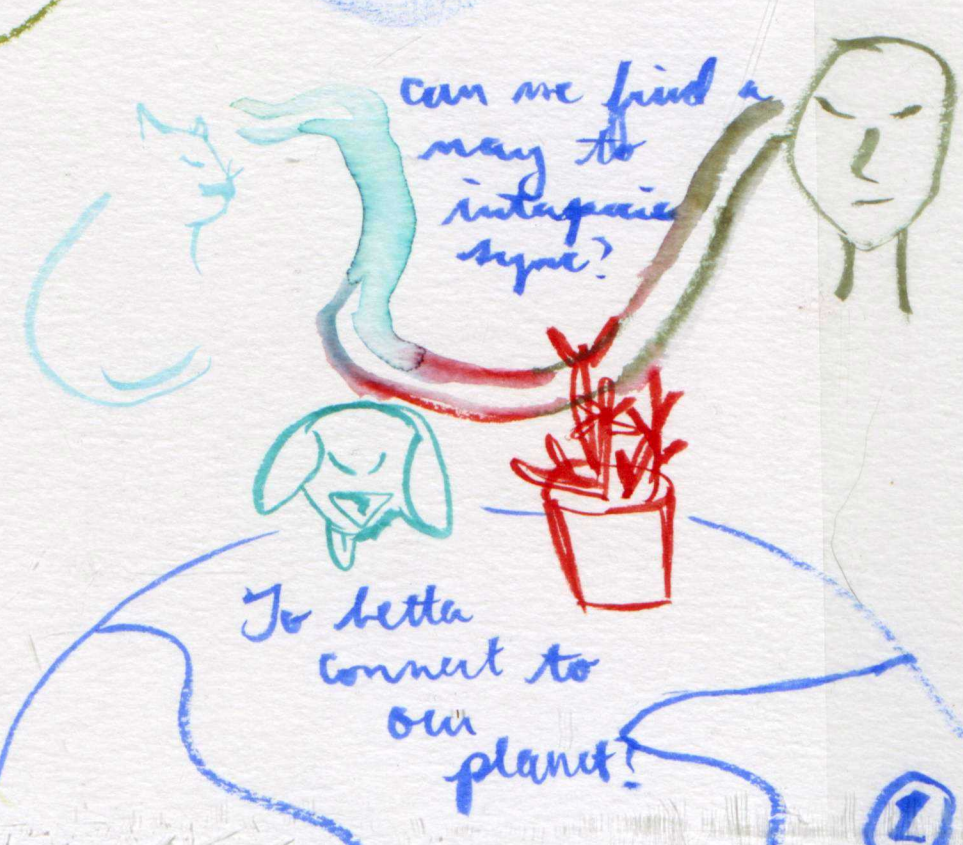
I feel I understand music even more now as a connector. The swirling water almost "felt" the emotion of the song playing...



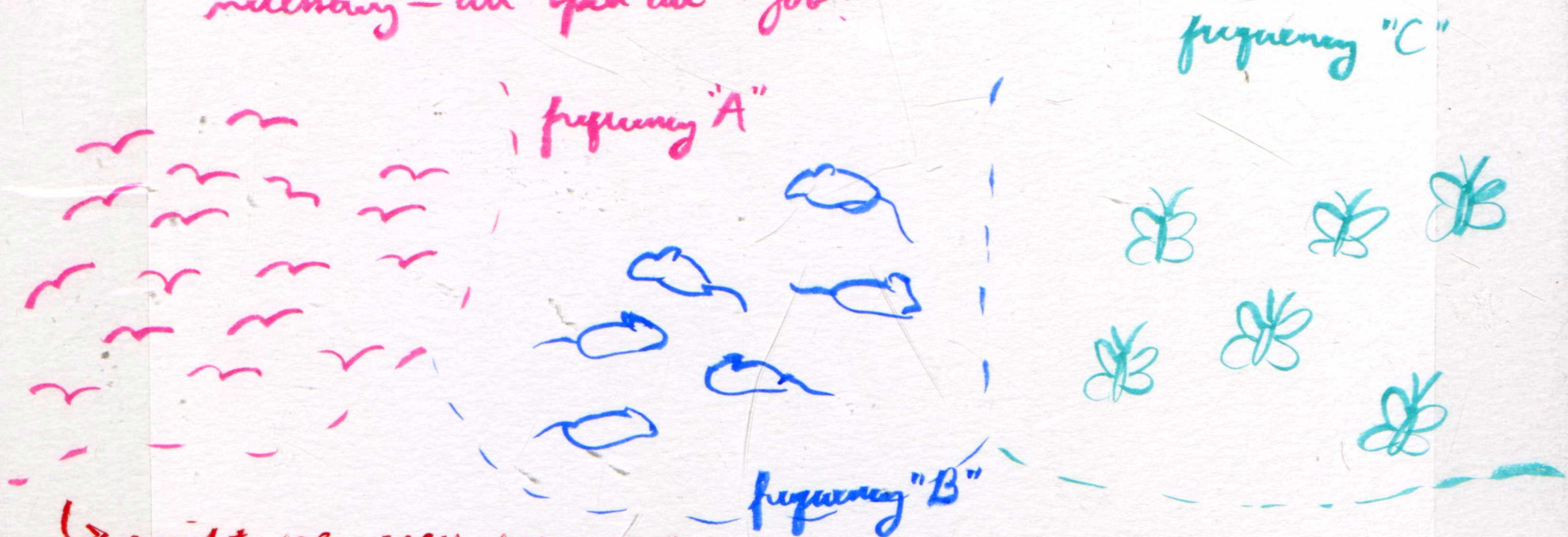
Neural synchrony comes to mind...



How much of human connection comes down to the alignment of our invisible brain waves? Can we simulate this connection through meditative vibrations?



① Organizing a zoo based on farmed animal frequencies - no cages
necessary - an "open air" zoo?



↳ might we even see what
new ecosystems emerge based on species gravitating to certain
frequencies over others?

② Creating "mood" spaces to foster connection w/ each other, by playing
only music/sounds at particular frequencies...



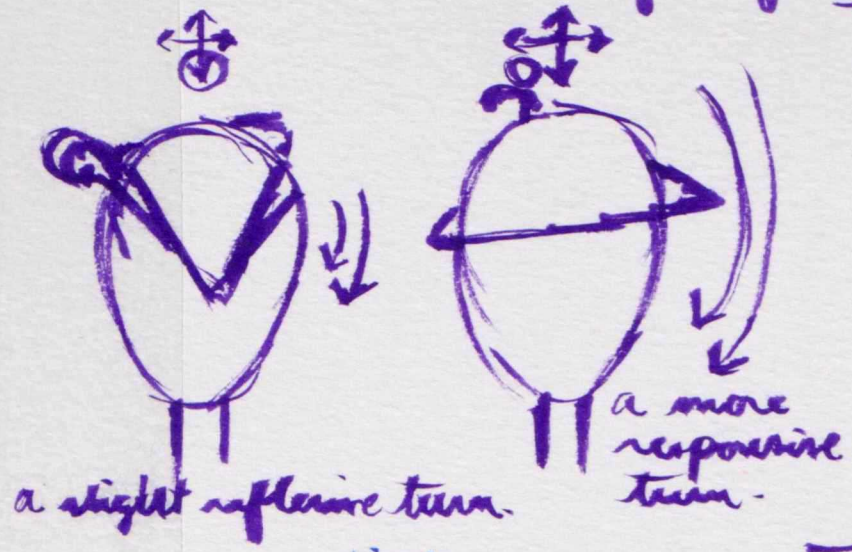
Could this make "us" (existence on our planet) more
conscientious of each other? our planet, targeting existential social
issues?

③ What if water became a medium in & of itself, for exhibit?



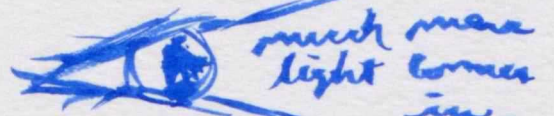
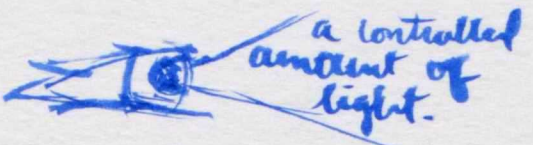
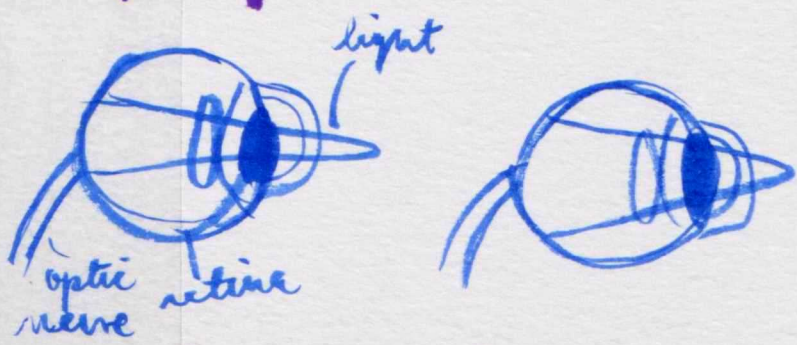
dotted lines as frequencies/vibration patterns against
a museum wall.

The mind isn't so far from the body...



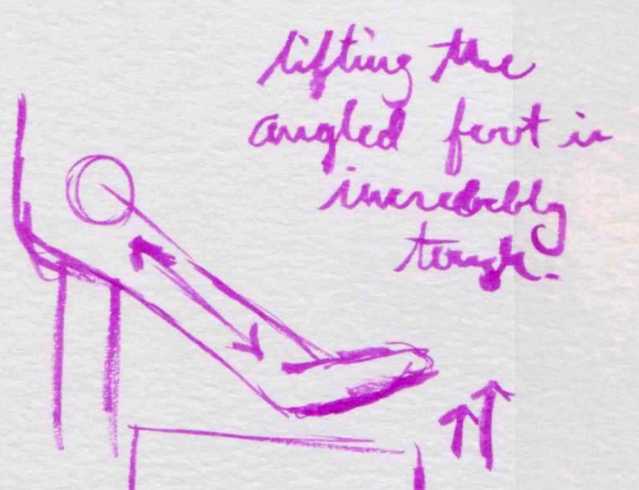
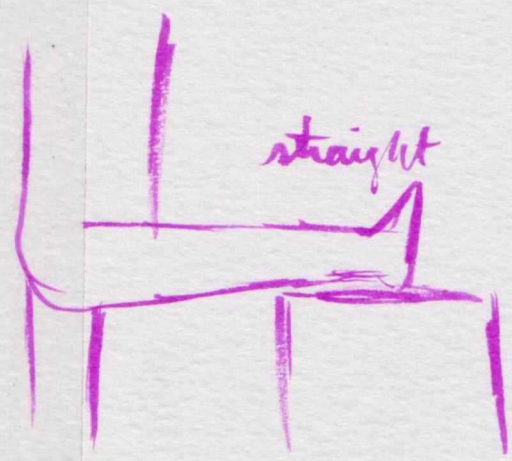
slight differences in an angle / stimulation of the body has huge & involuntary effects. In terms of size difference it is barely much bigger.

Pupil dilation... similar to the Vagus, a small adjustment in the human body has very real & potent effects.

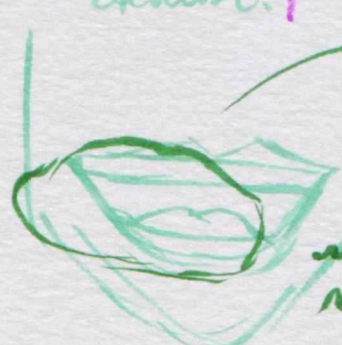
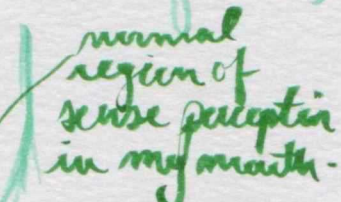
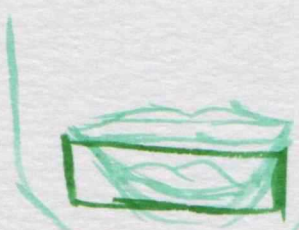


Seemingly unrelated & distant parts of the body are connected... Psoas muscle.

again, a slight angular difference has huge effects - I kept squinting, my vision blurred



a numb mouth from the dentist.

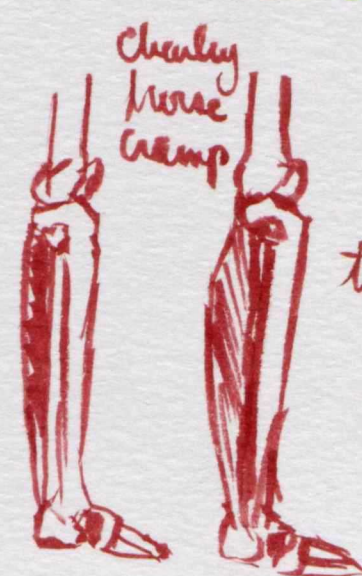


a shift in how I felt my mouth with the numbness.

numb



numb



the small, miniscule, imperceptible as consequential for the human body

The small, the slight, the imperceptible as largely consequential...
Our lives as a literal & metaphorical representation of life.



Evolution as small & imperceptible.

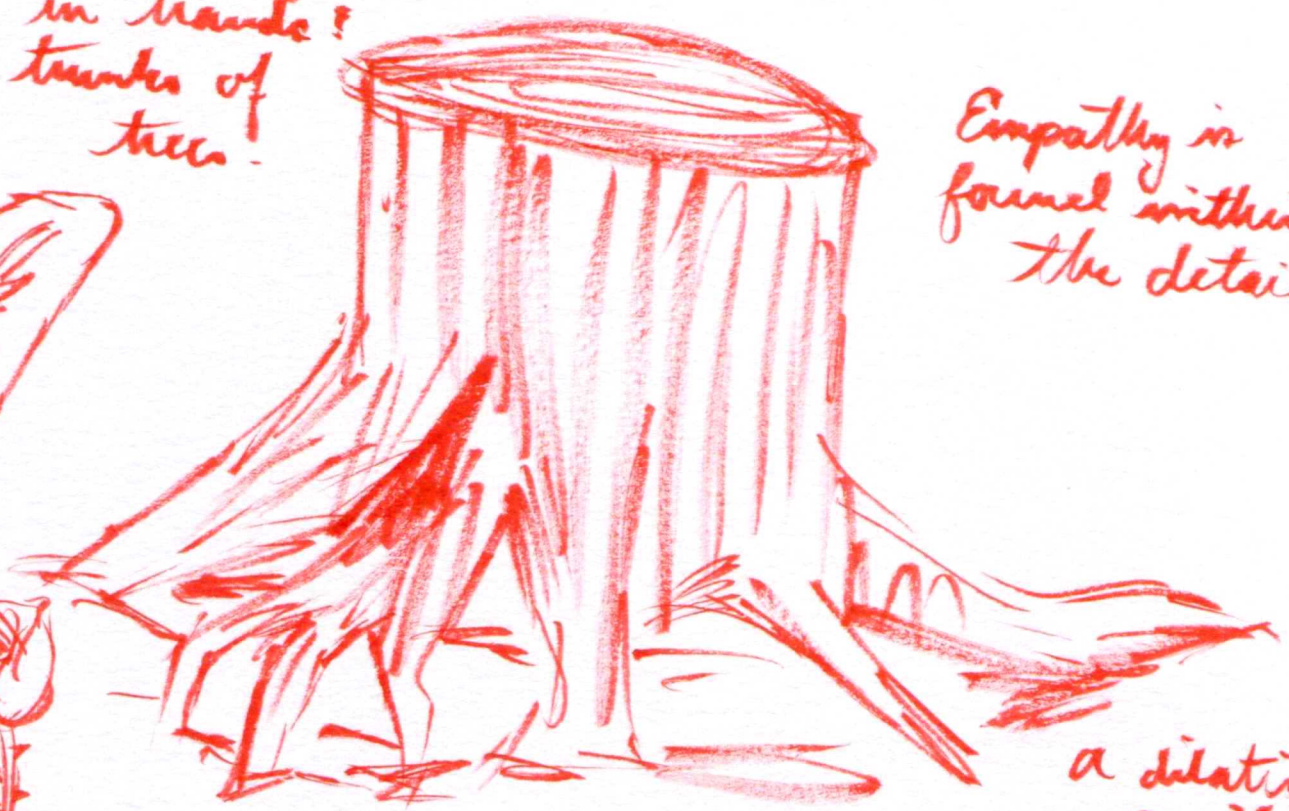


What happens when we miss these small yet impactful shifts in each others interactions? How can this spiral to larger life shifts?

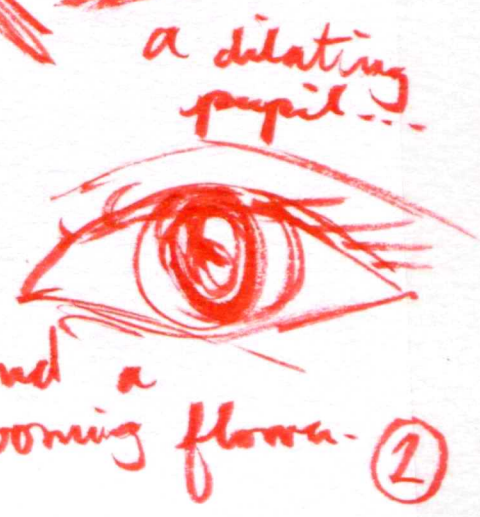
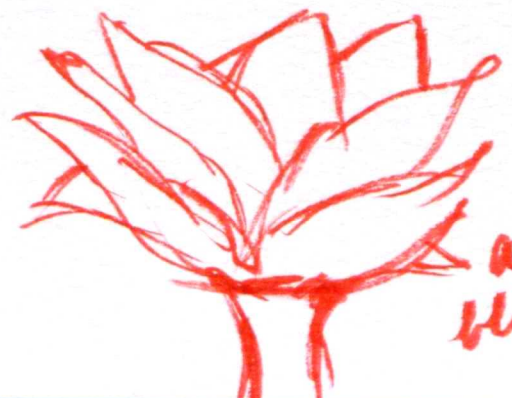
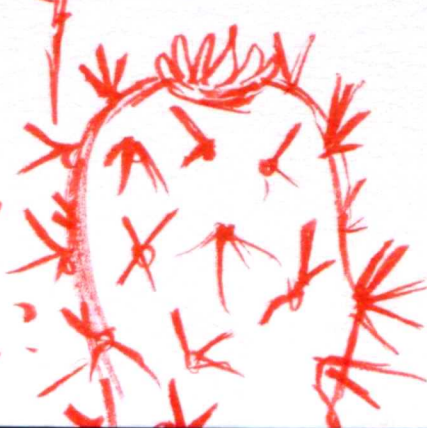
Attachment theory, overlooking needs.



Tendons found in hands & trunks of trees.

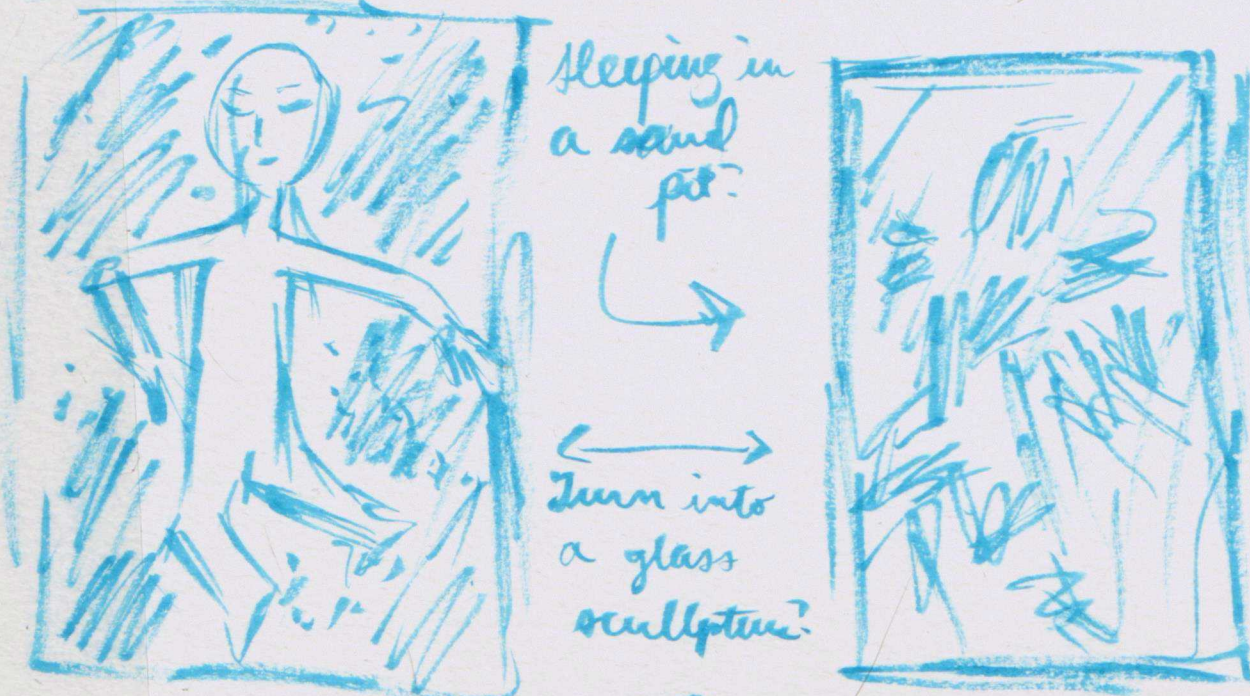


Empathy is found within the details.



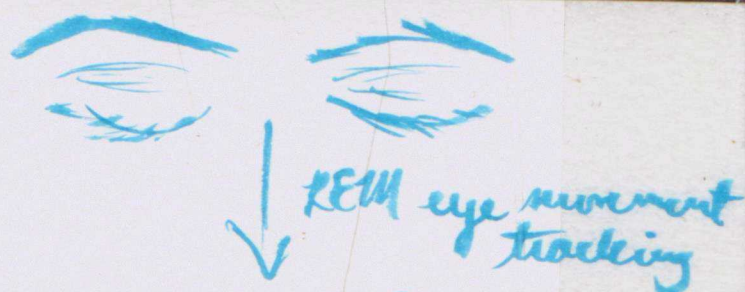
Arm hair

① Unconscious movements in sleep as an art tool.



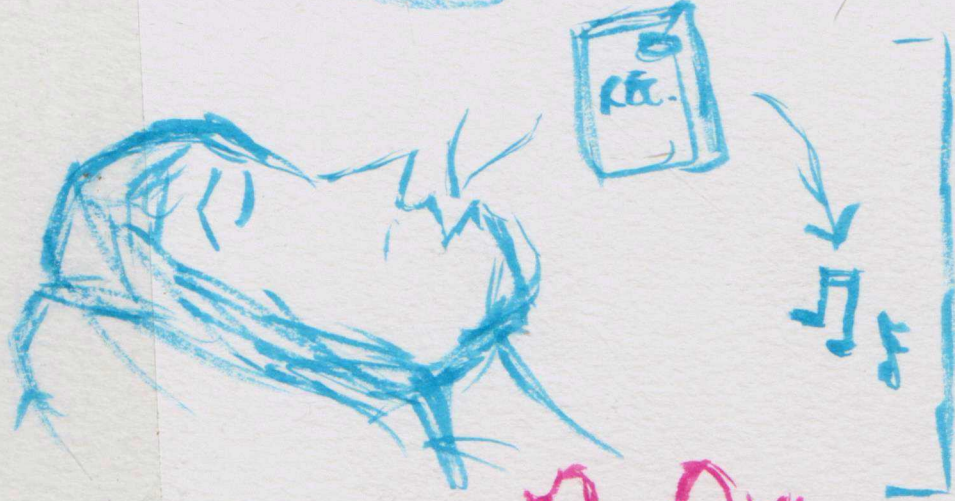
sleeping in a sand pit?

Turn into a glass sculpture?



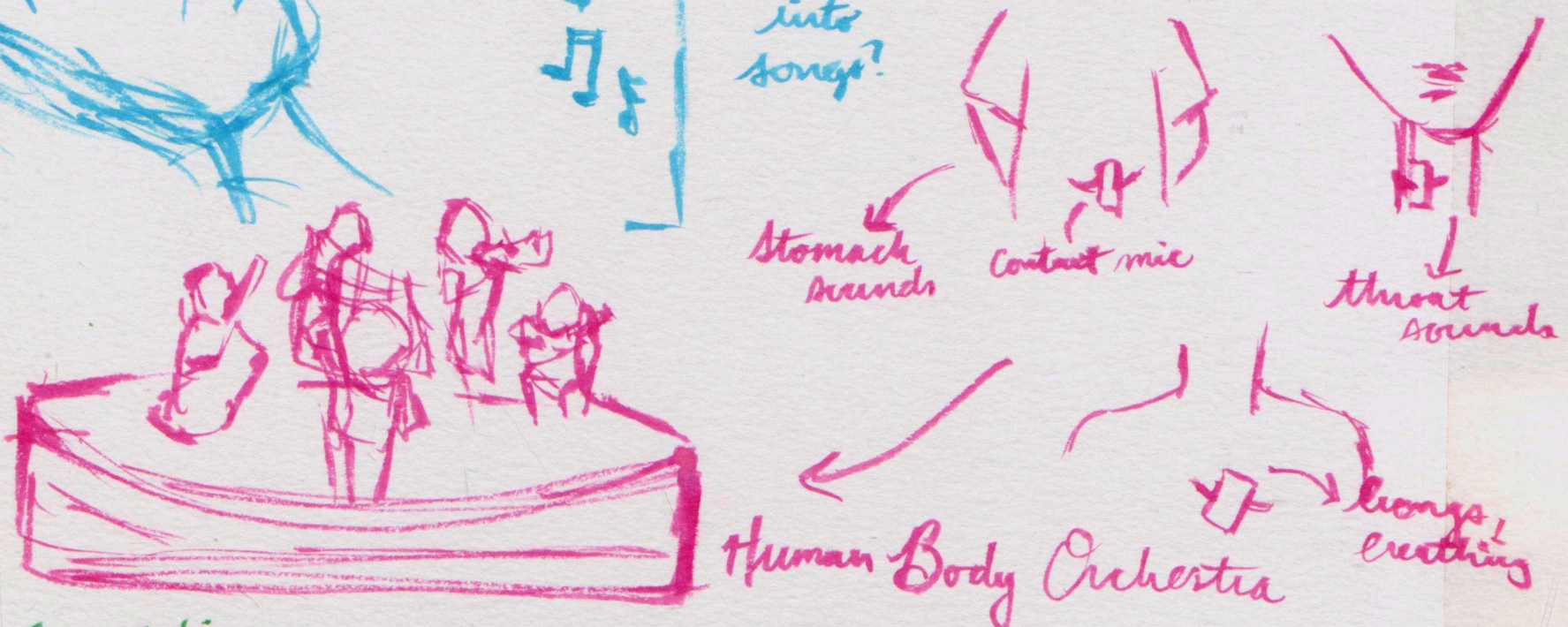
REM eye movement tracking

Use these landscapes to plan out activity levels throughout making day?

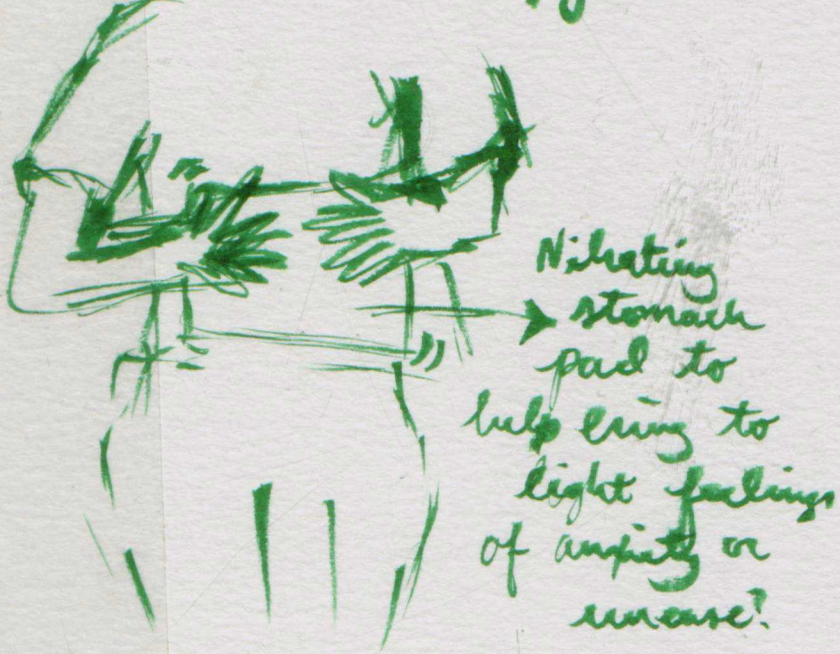


Turning sleep snort into songs?

② A symphony of internal bodily movements.



③ Can stimulating muscles that are correlated with emotions be a useful tool in therapy, to aid in emotional processing?



Vibrating stomach pad to help bring to light feelings of anxiety or unease?



What can stimulating small face muscles achieve in unlocking unprocessed emotion?

We hold memory & trauma in our bodies, can different forms of stimulation unlock these blockages?

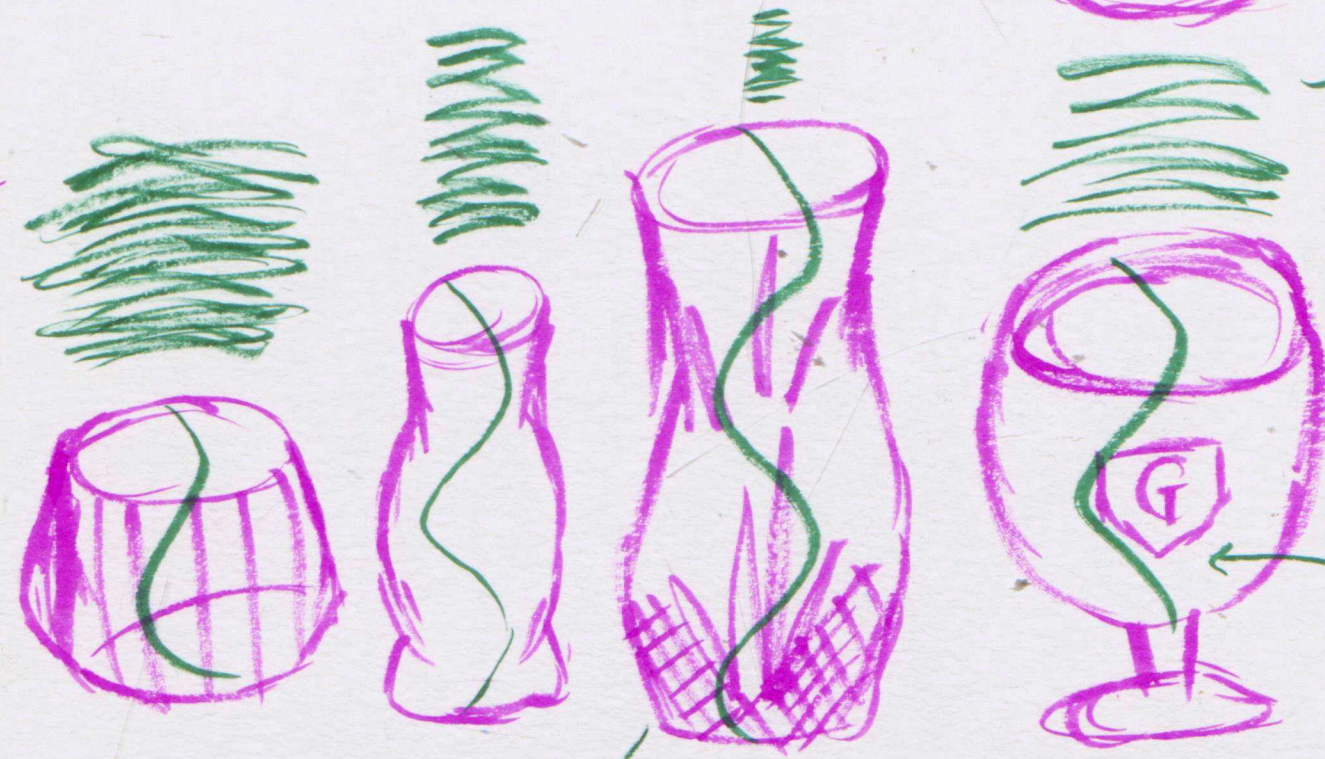
Sound - Organic or Inorganic?

air as catalyst
Organic



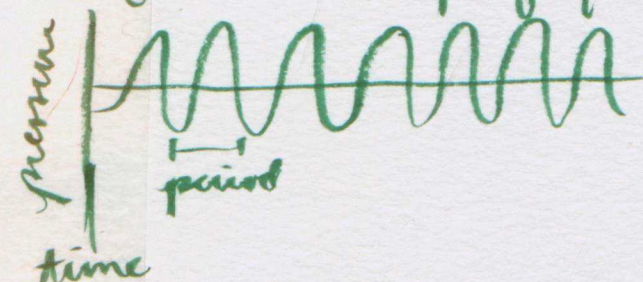
strokes indicate "depth" of sound. more variance per regular blowy sound = tighter lines (not pitch related).

pencil as catalyst
Inorganic

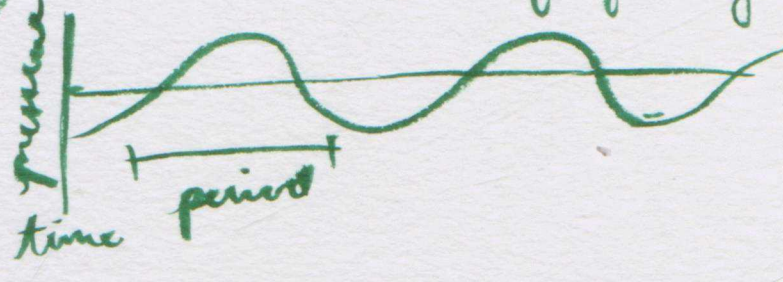


strokes indicate pitch this time higher pitch = narrower lines shorter wave = higher pitch does width of bottle come into play

Why?



high-frequency



low-frequency

air inside of bottle vibrates less air, slower sound waves

thinnest bottle so highest pitch?

Audio recording sound wave comparisons:
Sound from window, chirping birds (organic):



Friends concert (inorganic):



Friends concert (level of song clapping audience - organic & inorganic hybrid?):



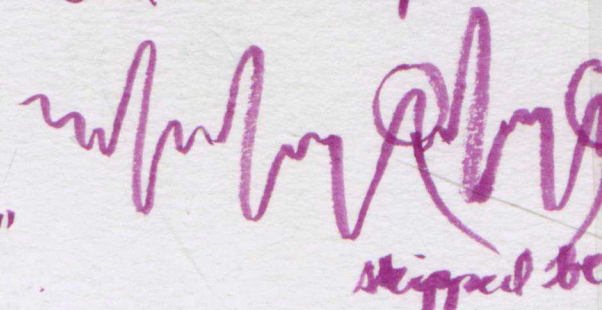
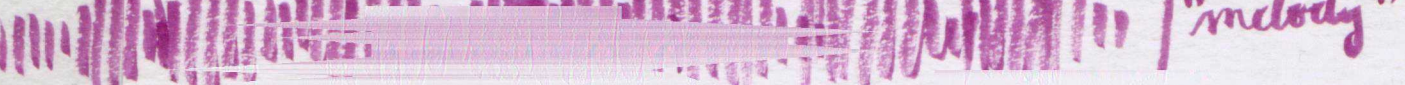
end of song

Friends concert (drum solo):



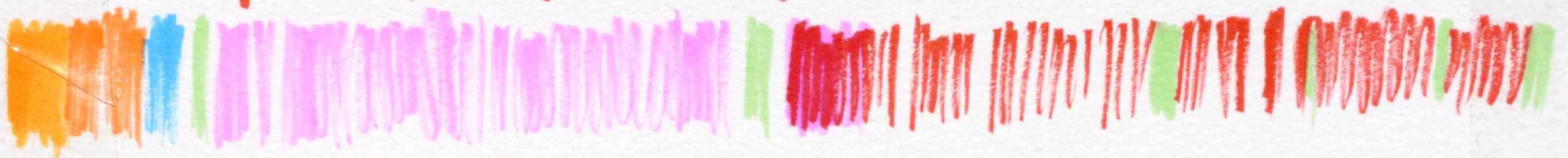
clapping EKG as a hybrid?:

Friends concert (guitar solo):



skipped be

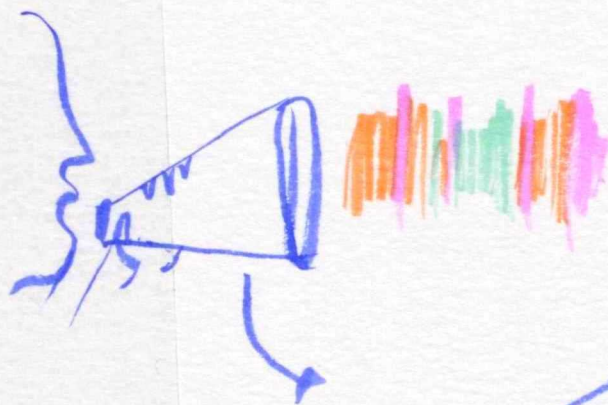
Sound sculptures exist. What about sound paintings?
Using Reaper: coloring spectral peaks per octave, I created a "color map" of a snippet of sound from the concert:



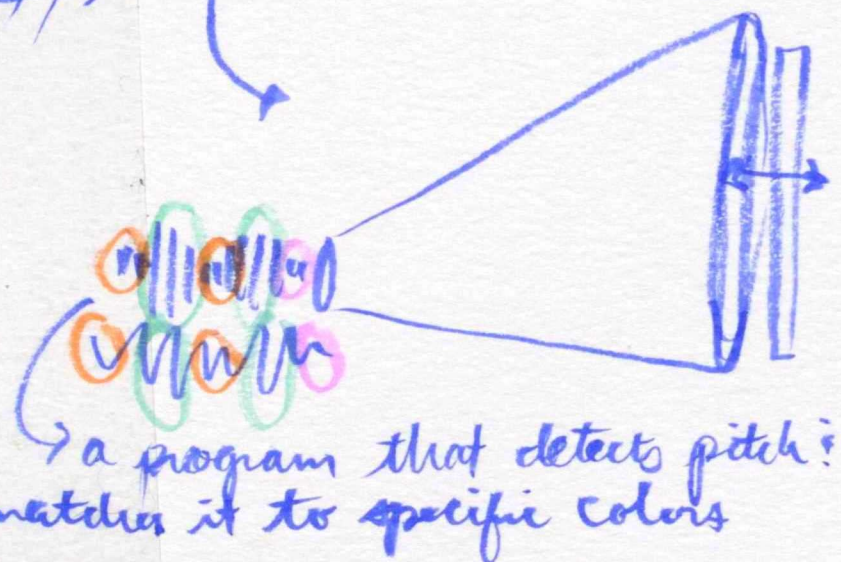
Visualization of pencil + glasses:



What if we had a speakerphone/megaphone that could give our
noses color in real time using this same mechanism?

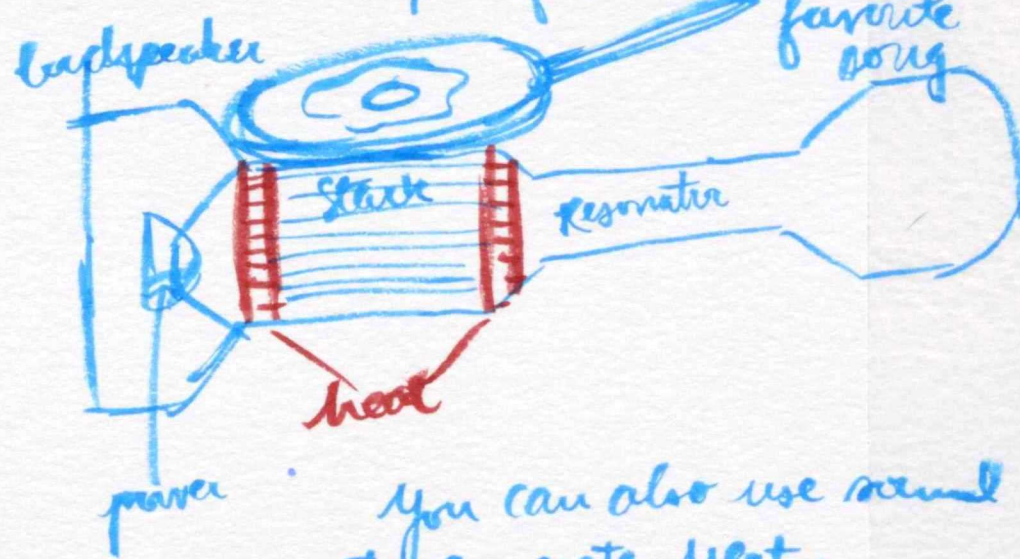


Could visualizing pitch in this way help us
communicate better? Could it better relay emotions
through changes in vocal pitch? Could it help
bridge communication gaps of hearing & non-
hearing individuals?



a reflective/holographic
display screen that
projects the color

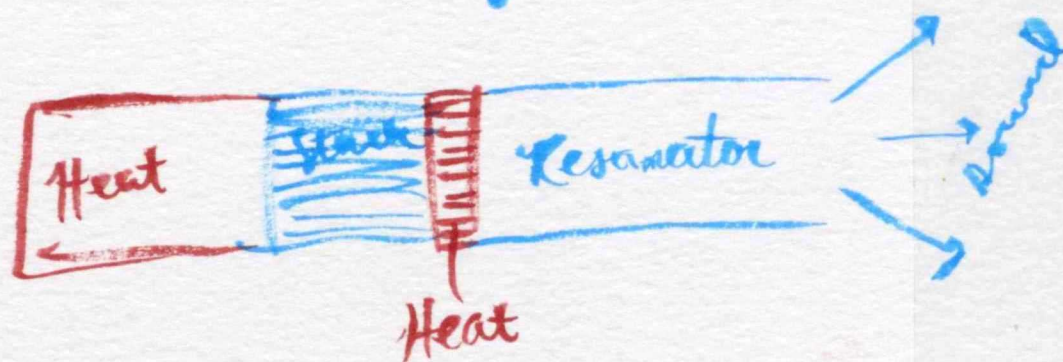
Can we cook food
using heat from
sound waves?
"Thermo-acoustic
energy conversion"
egg fried to the taste
of the sound of your
favorite song



A dining experience that only serves
items in /with glass, to create a
symphonic meal:

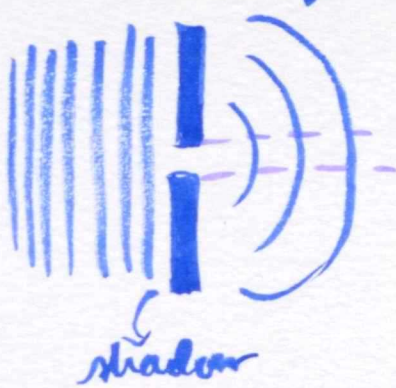
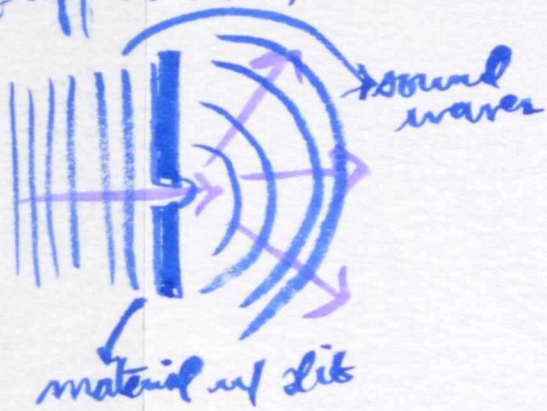


You can customize your meal
experience based on what you'd
like sonically instead of per
taste, as a way to possibly
discover new flavor profiles.



The impossible instrument - seeing shadow through sound

Diffraction exists in both sound & light waves:

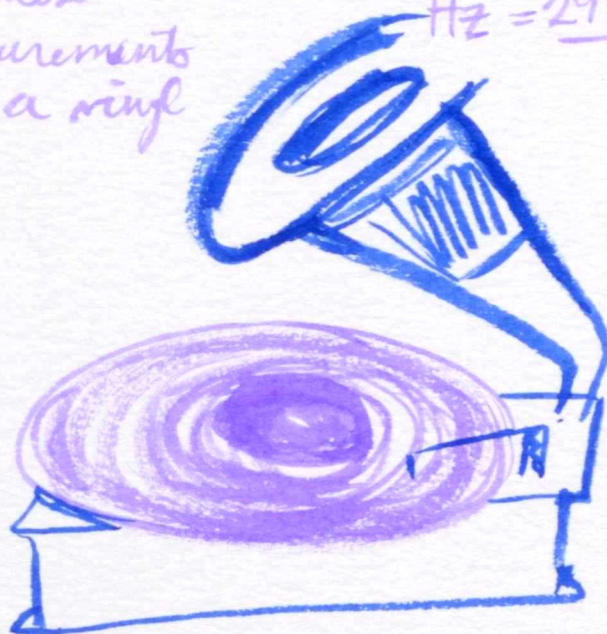
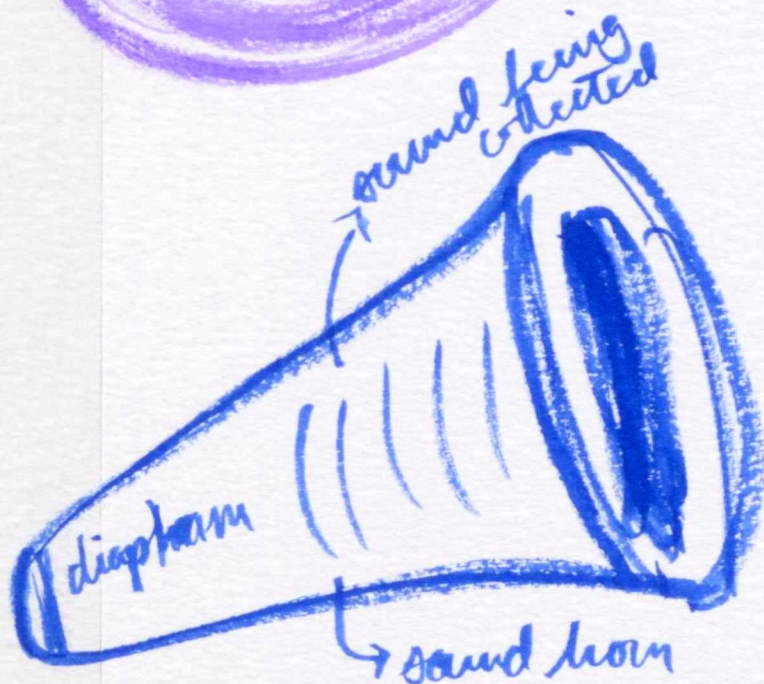
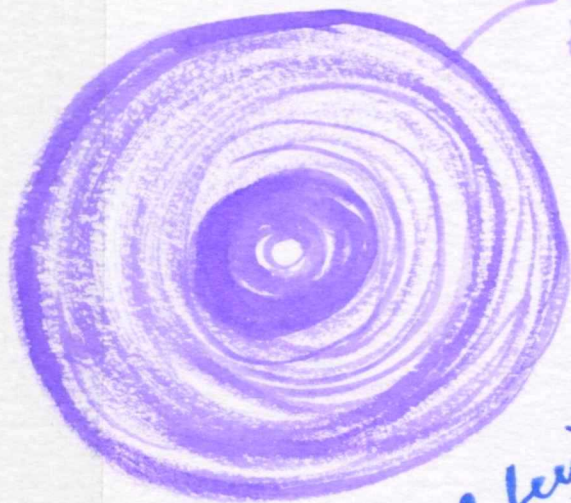


Collecting data from shadow diffraction using spectrometers



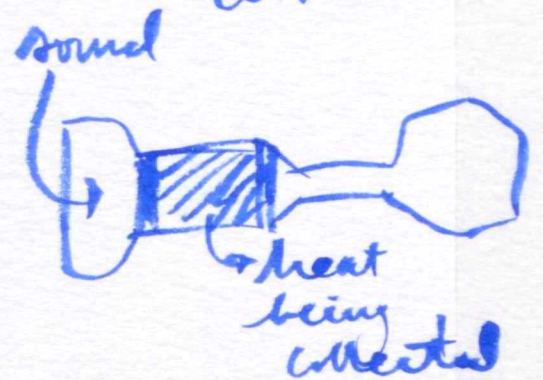
$$\text{Hz} = \frac{299792458}{m}$$

etching these Hz measurements into a ring

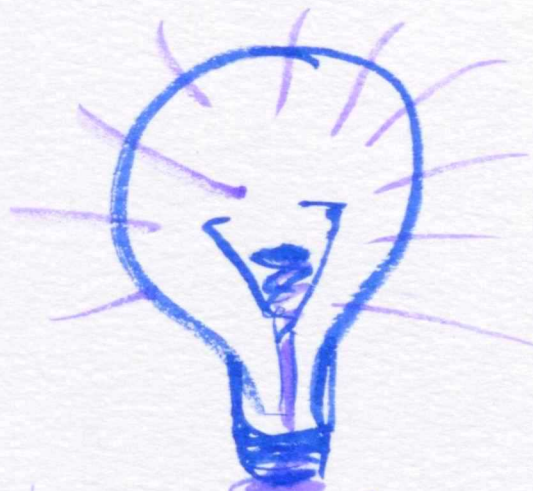
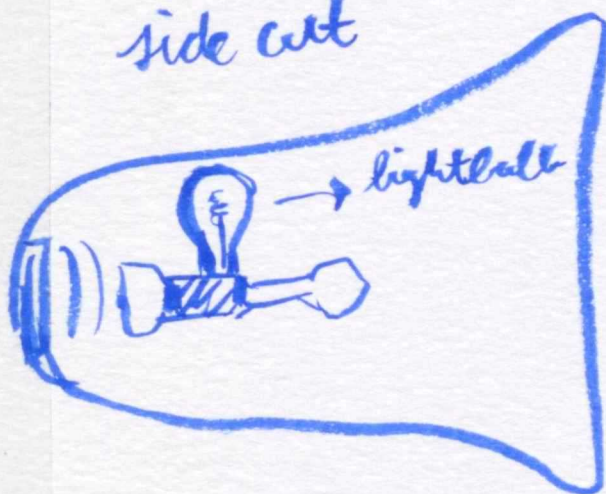


Can we use this sound to create light?

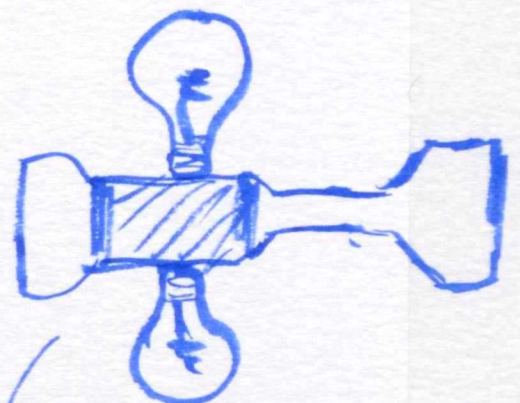
Within horn, a thermo-acoustic converter



side cut



heat collected to power incandescent light bulb



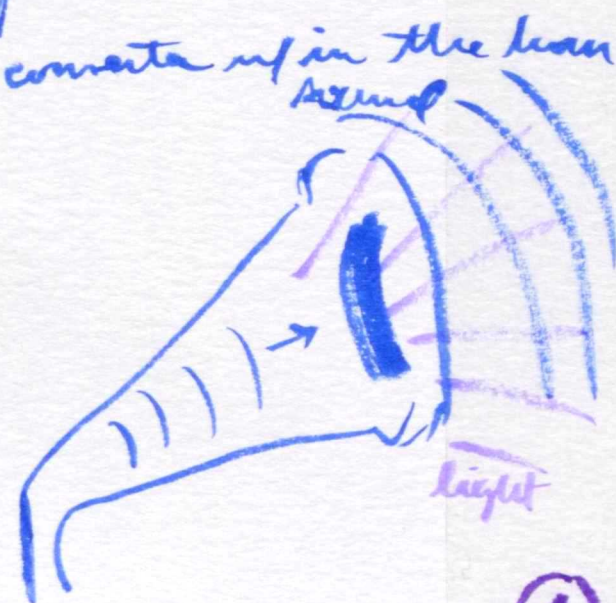
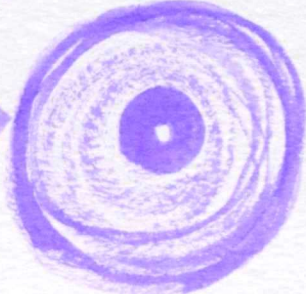
a bulb on each side?

converts up in the horn sound

shadow, spectrometer used to collect diffraction waves in (m)

$$\text{Hz} = \frac{299792458}{m}$$

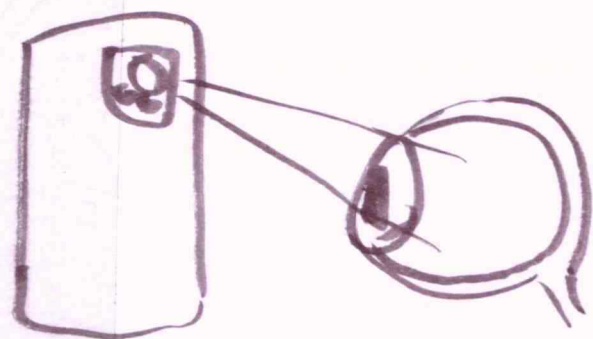
Hz etched into record



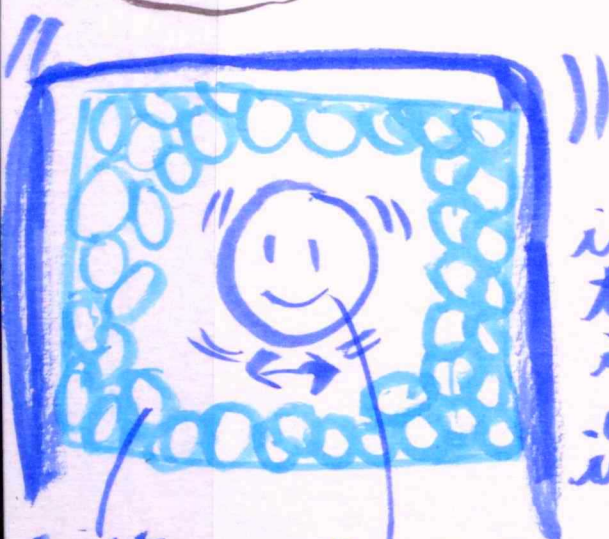
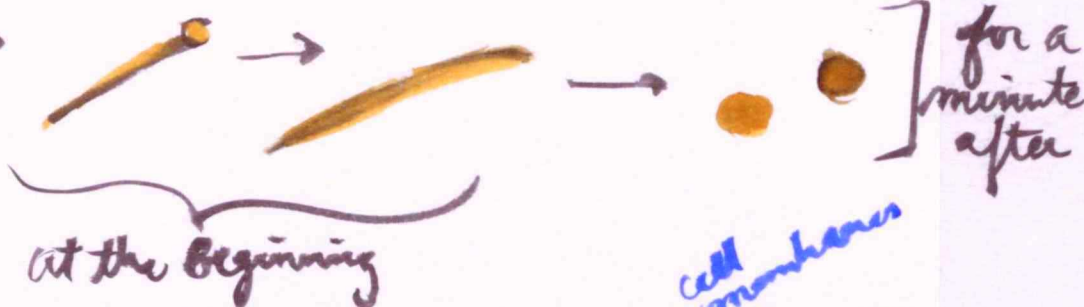
Light After Images



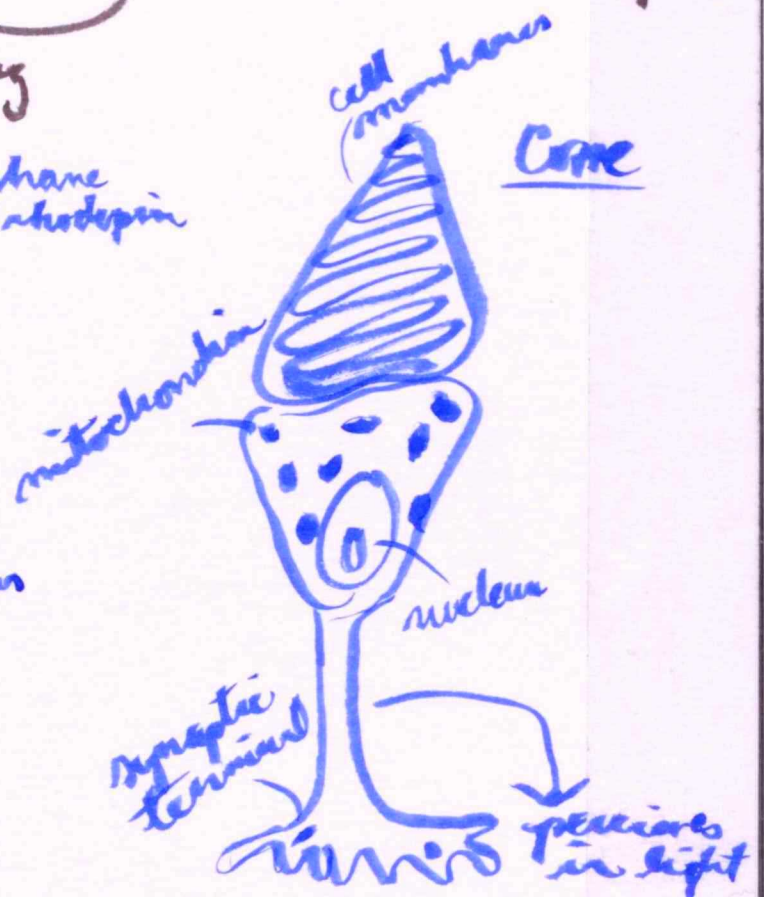
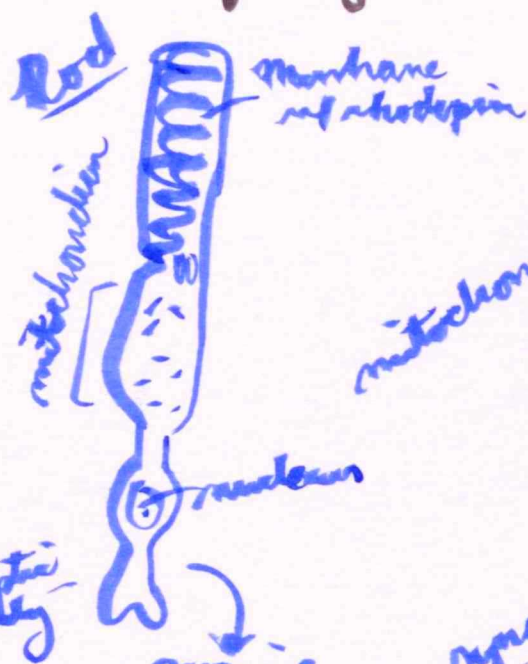
Due to alteration of gel substance in eyes clumps of collagen casting shadows



shining phone light



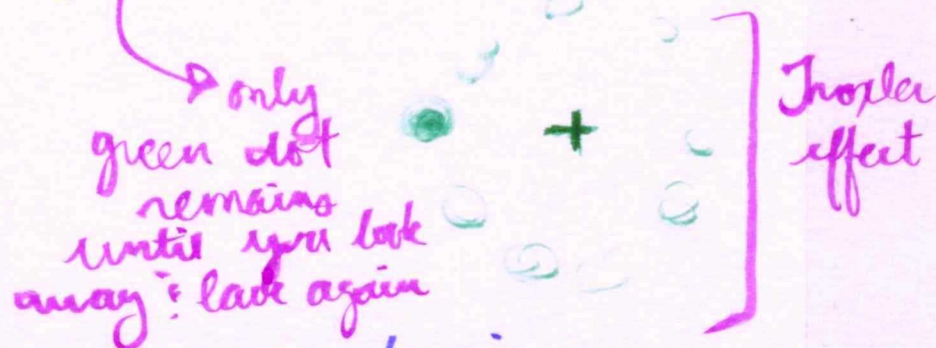
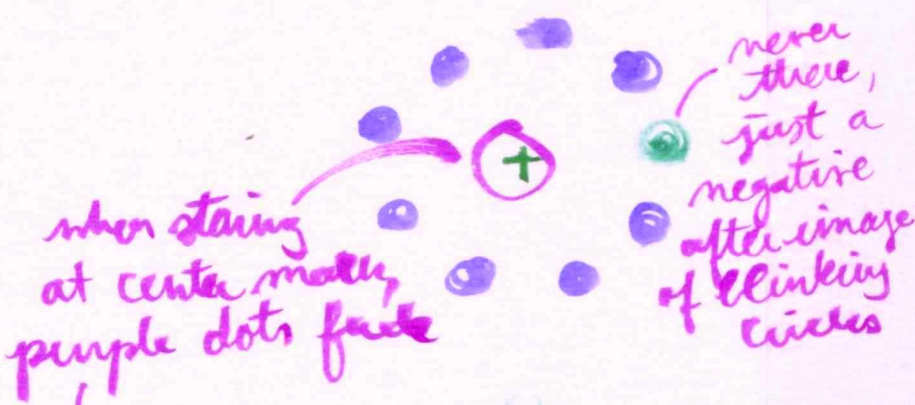
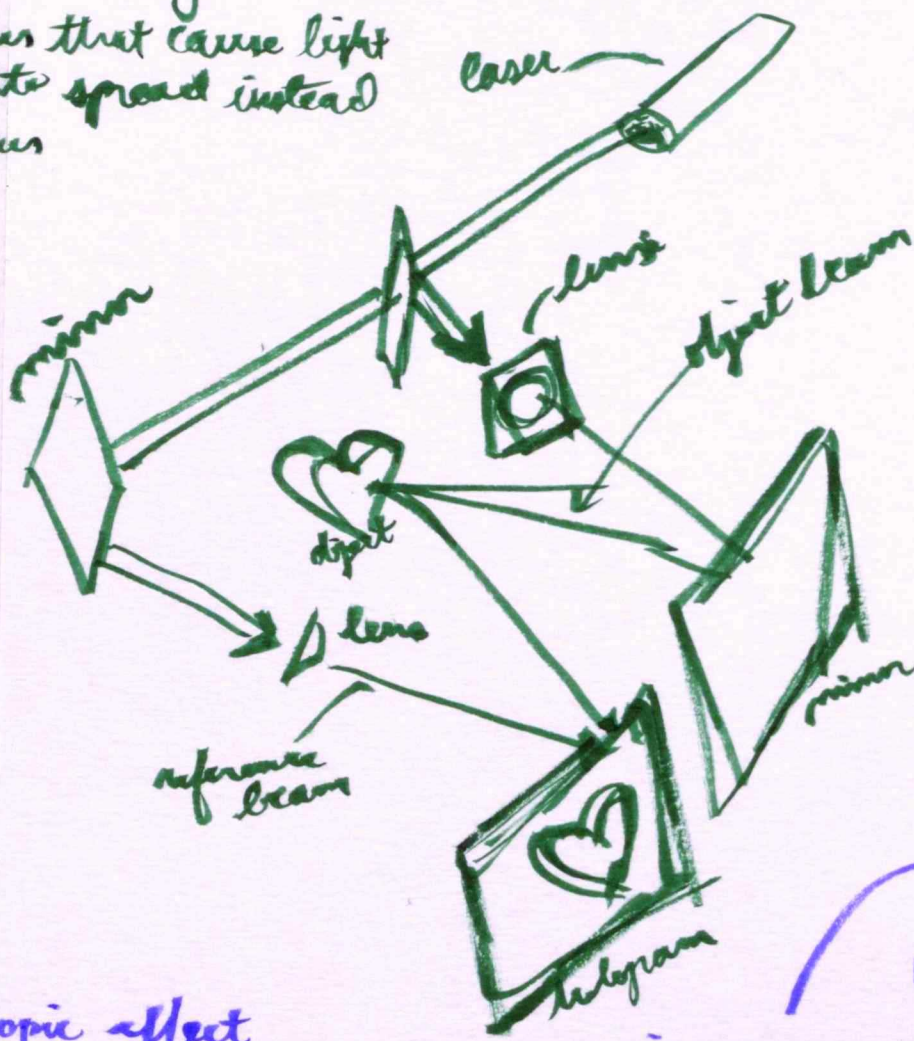
When image on telephone is taken, darker interior image seems to move



due to cones attaining max sensitivity in minutes, rods require 30-45 min in total darkness

Holograms may be easier to construct than I thought...

lenses that cause light beams to spread instead of focus



stroboscopic effect

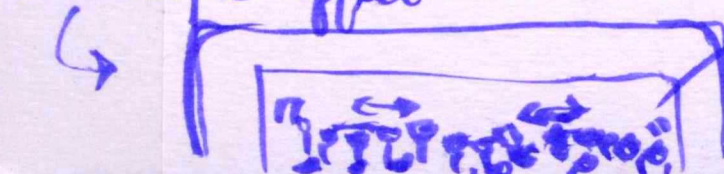
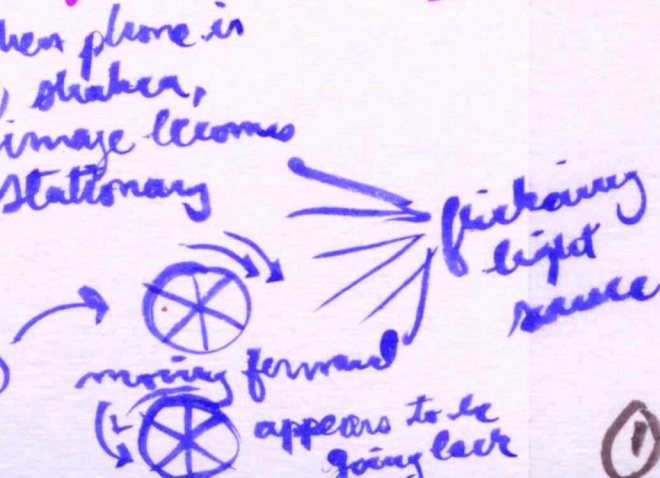


image on phone screen of moving crowd

Magnus wheel effect



Fading after images akin to fading memories---

All our senses are reflections of "after"...



sound delayed per man's arrival

just as w/ memories, there is a moment of forgetting.
What about eye floaters?

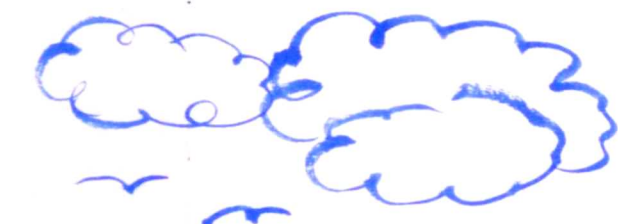
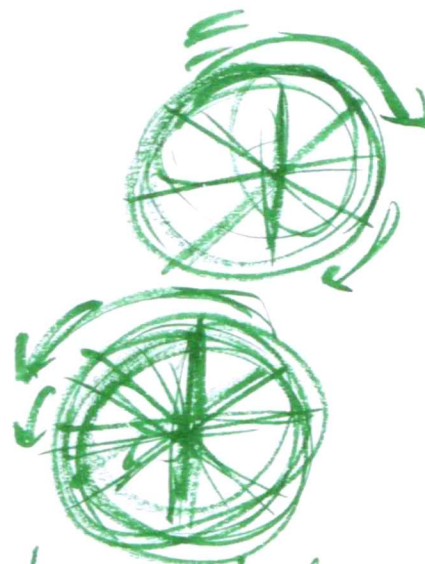


image before eye floaters



image after eye floaters

what does "impurity" mean here? Which image is more "real"? Is the second really "man" in just another version of reality?



How often do we feel we are going backward when really we are moving ahead?



persistence of vision

how can we look to better look truly "see"?



What tiny details or small phenomena are missed when we don't continue to look?

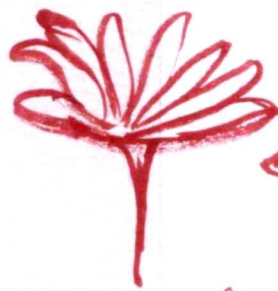
Can scars count as after images?



lovely scar as a form of "after image" -> a documentation or proof that something really did happen.

Similarly, the reasons...

Beauty in ephemerality...



bloomed



milled



gone



After images as a form of "projection sketching" in a place/space...



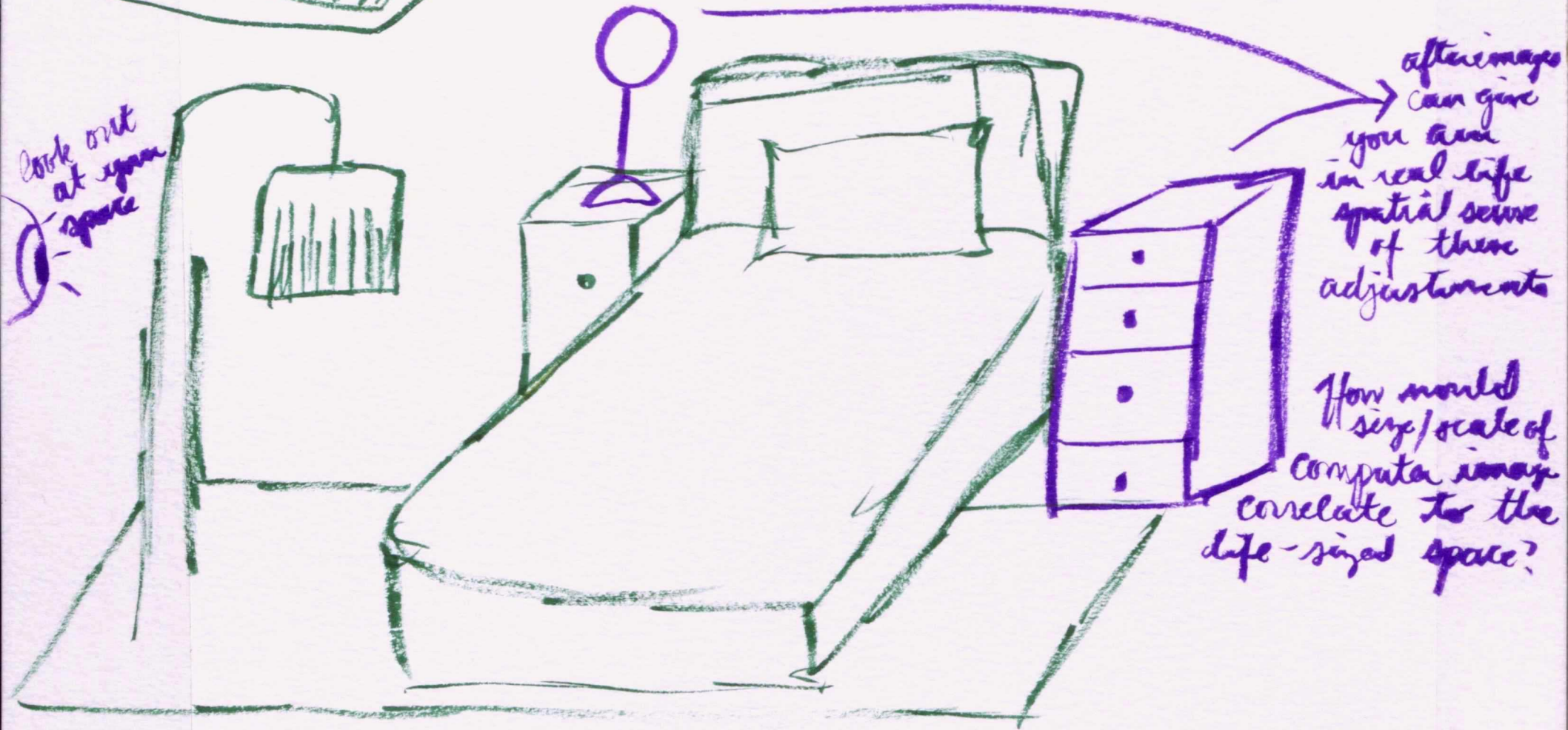
a photo of a bedroom uploaded to computer

What if I wanted to see how a dresser looked in the space? a lamp?



store in center for 30s

look out at your space



afterimages can give you an in real life spatial sense of these adjustments

How would size/scale of computer image correlate to the life-sized space?

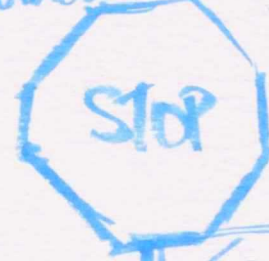
B/c of "speed" inherent to driving, can have applicable uses for after effects...

persistence of vision when driving



when driving past a sign...

led strips



TURN LEFT FOR EXITE 83
TURN RIGHT FOR EXITE 52

augmented signage when driving to give real time updates - less relying on phone



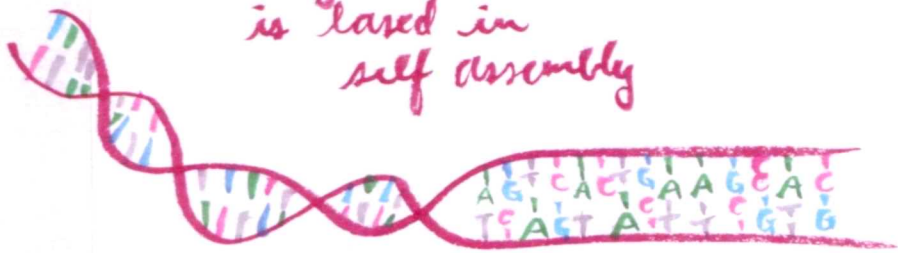
rapid rotation on wheels to communicate messages to other drivers



Self assembly in nature...

DNA

Our genetic code is based in self assembly



Nitrogen bases (GATC) are linked together through hydrogen bonds.

Micelle in water - a spherical structure that forms due to H_2O 's unique properties.

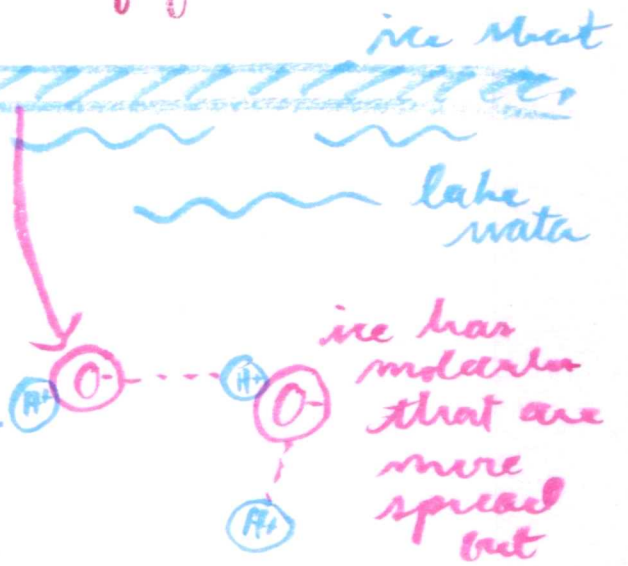


This has greater implications for other lifeforms.

This phenomenon allows the less dense ice to float atop water, insulating bodies of water, preventing lakes/riars from freezing; allowing marine life to thrive in winter



Therefore ice is less dense than water



Enzymes as catalysts in protein synthesis



Enzymes also play a role in self disassembly...

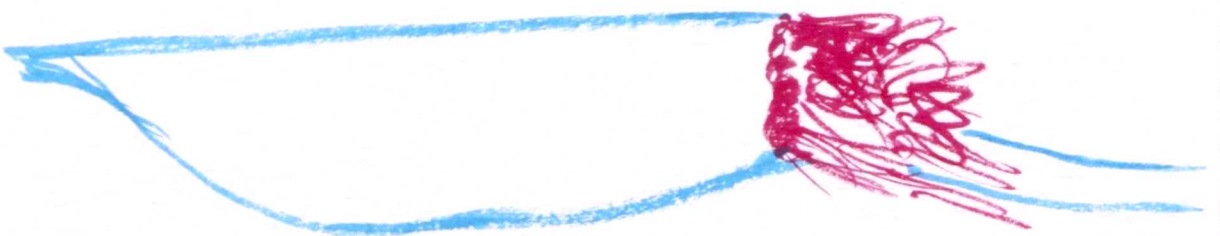
Is biological instinct a form of self assembly? Instinct, reflexive survival behaviors...



Building spider webs



Bird nests



Beaver dams



Shelter from weather & predators

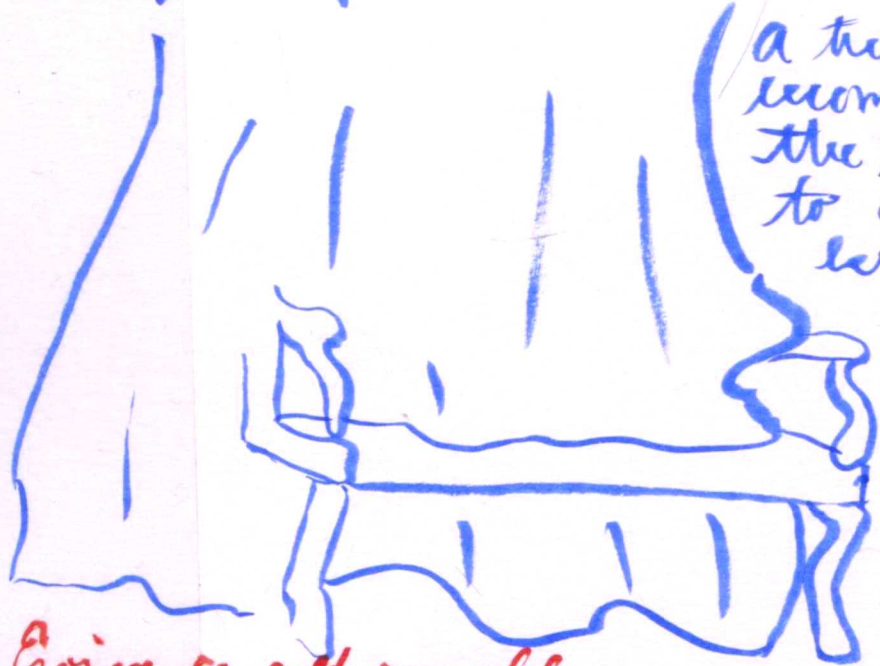
Does like attract like? Are our communities forms of self-assembly?



Ephemeral messages created through mind & dust



Trees & their roots
as self assembly
(the path of least resistance)

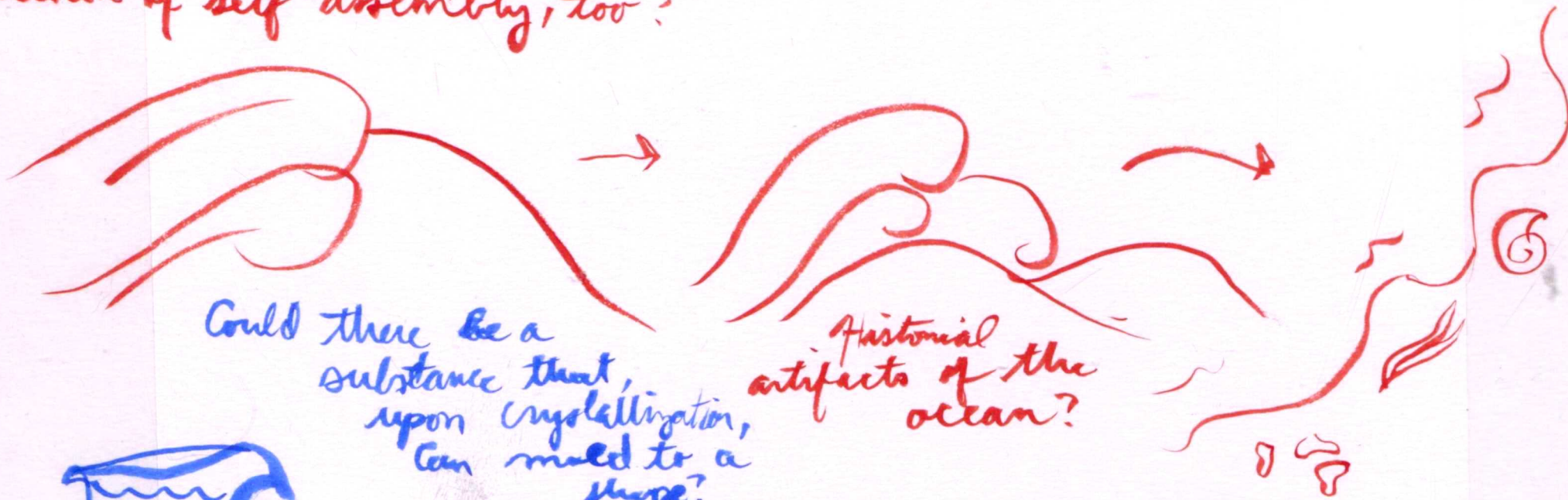


a tree
becomes
the ladder
to a
lunch



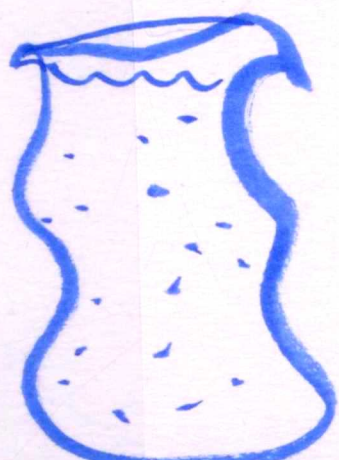
a tree envelops a house

Evolution as self assembly -
are items that mesh up or share a
version of self-assembly, too?



Could there be a
substance that,
upon crystallization,
can mold to a
shape?

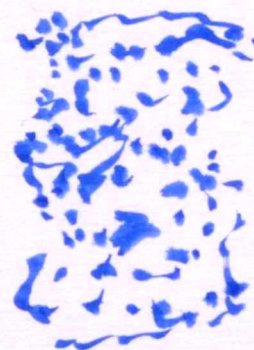
Historical
artifacts of the
ocean?



808 frames

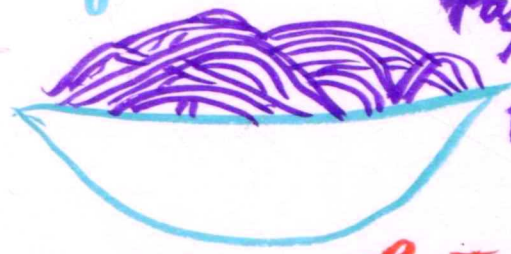
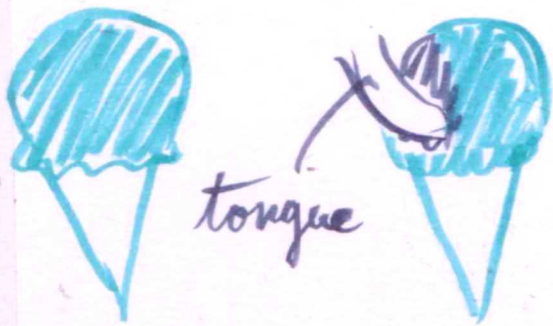


evaporation



a crystallized
version of
the object

Kameleon ice cream - changes color as it is licked (due to temperature changes & acidity of the mouth). What other foods can alter in color with changes in pH?



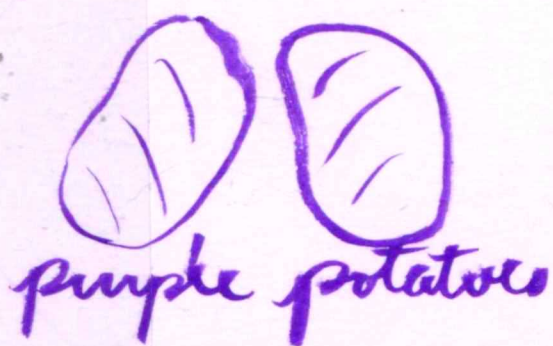
Pasta turns purple



Pasta turns pink



Boiling pasta in purple cabbage-cooked water - adding lemon alters pH of the pasta, leading to color change.



marked potatoes



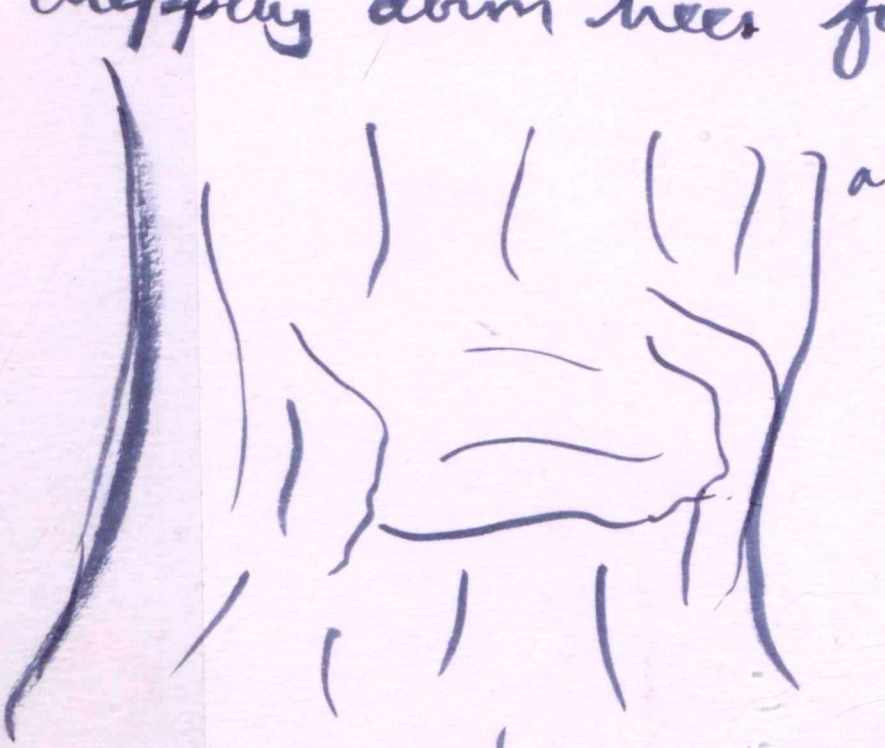
lemon garlic sauce



when the sauce is mixed in... turns pink!



Trees growing around items - could this "molding" create a sustainable eco-friendly tree city that uses trees instead of chopping down trees for wood?



a bench



a house

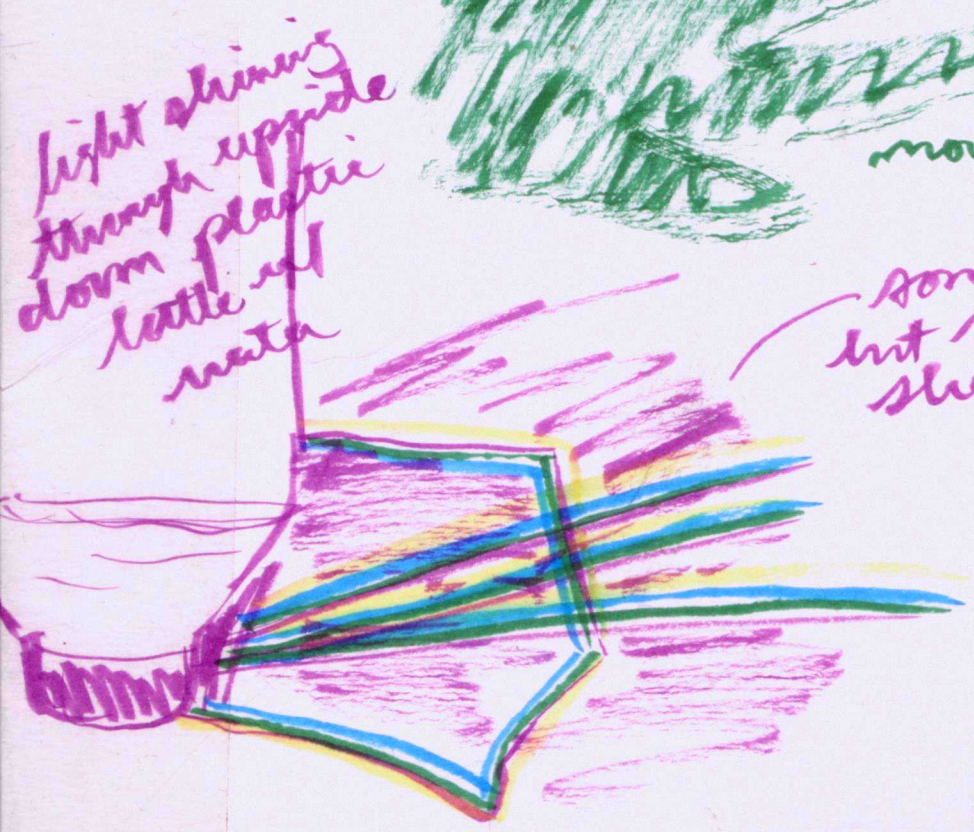
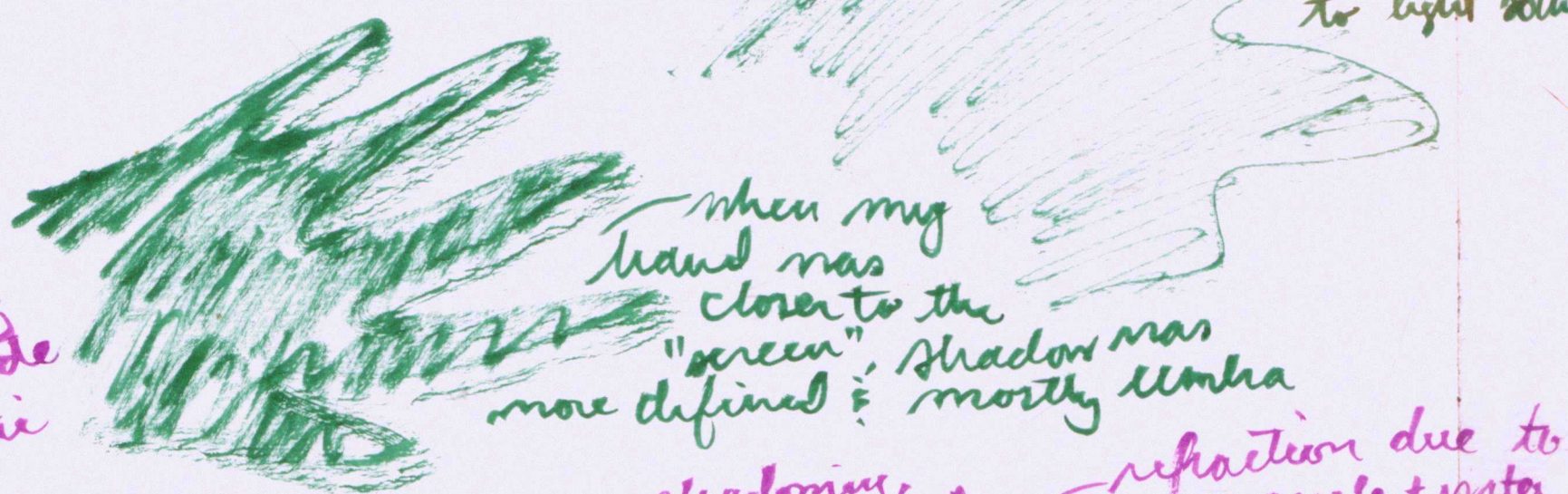
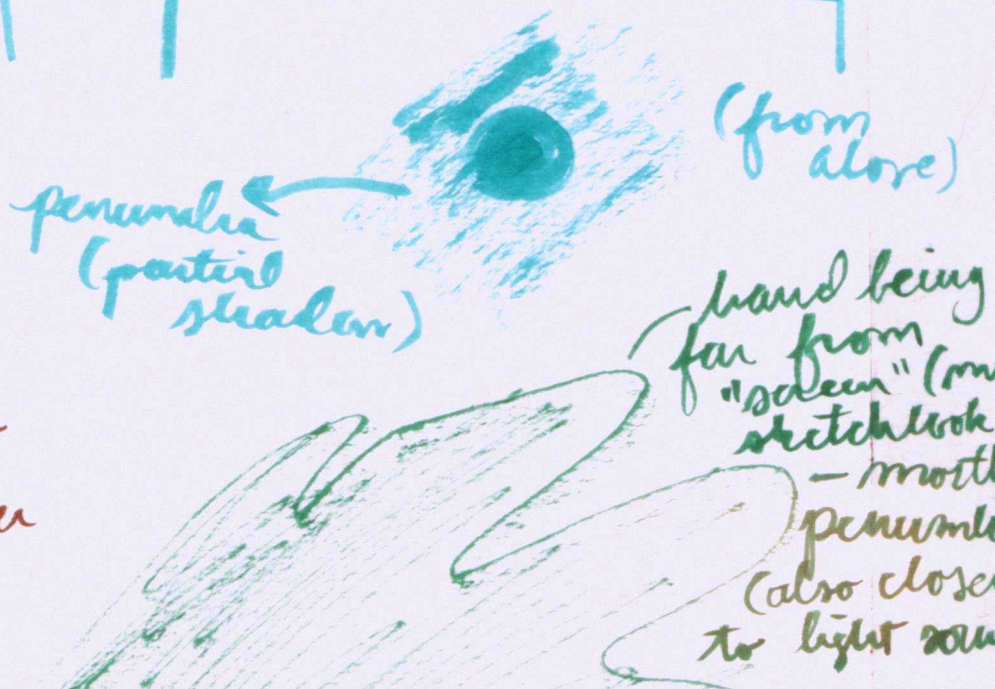
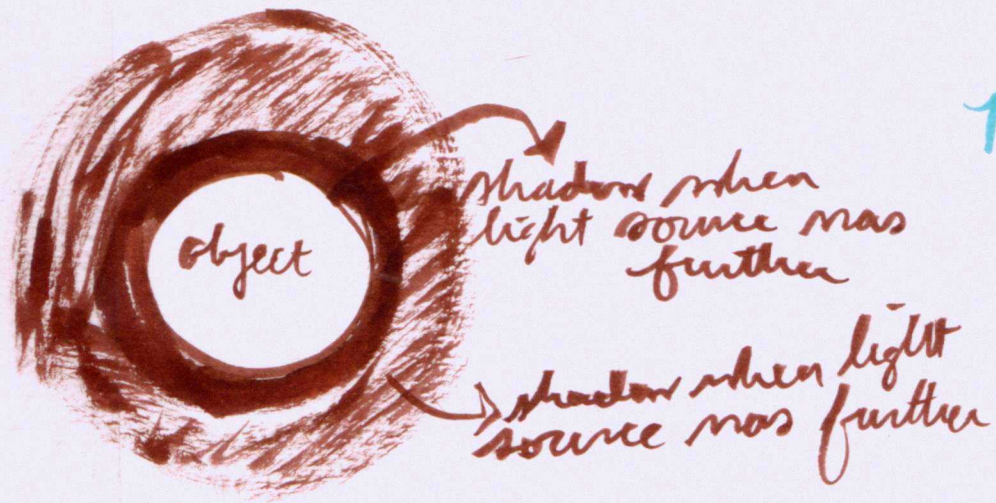
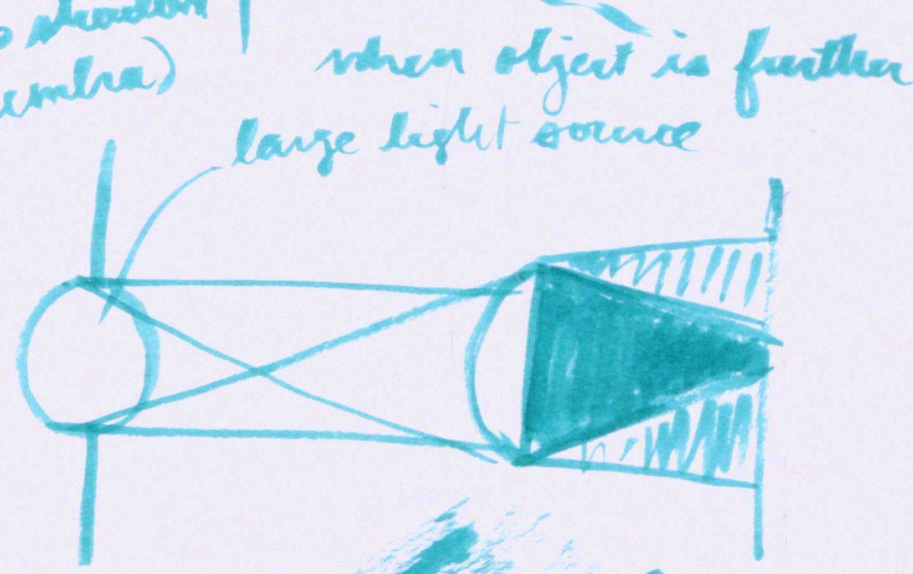
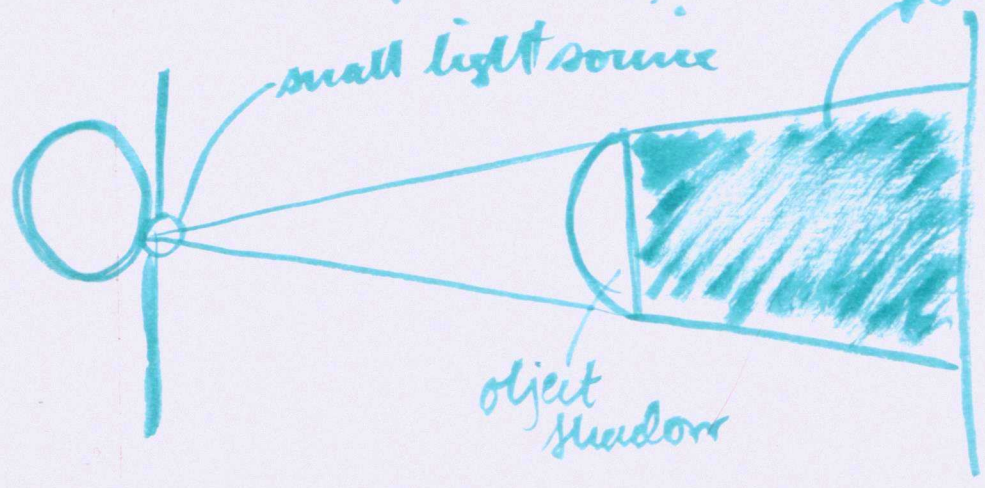
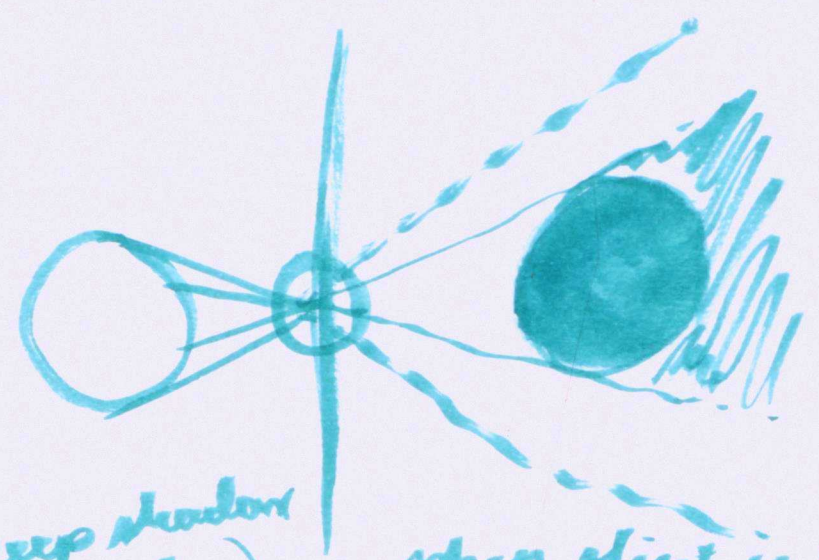
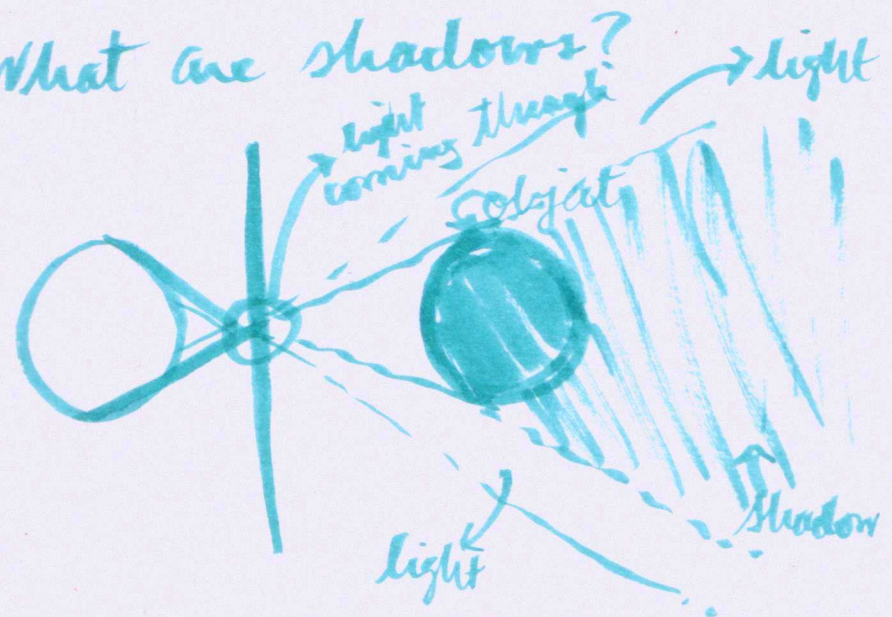


a table



could items as small & necessary as utensils be "grown" by a tree?

What are shadows?



Shadows as parallel worlds where reality is pliable...



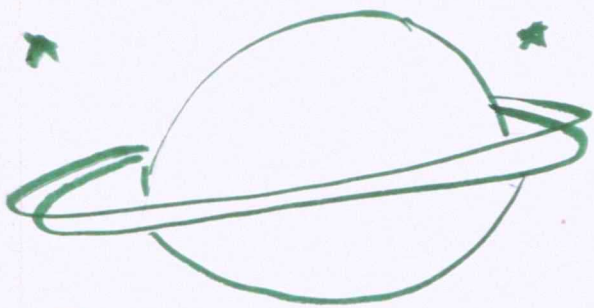
becoming larger than life,
an alternate version of
who you could have,
or might
essentially
become.



alternate
versions of
self can
"travel" through
time

what if
you photographed
yourself in different
art pieces - even historical
ones?

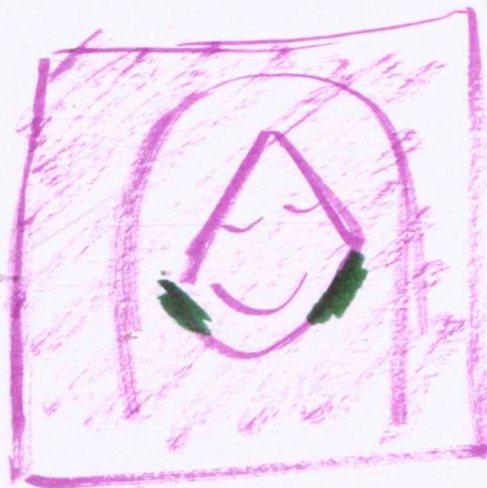
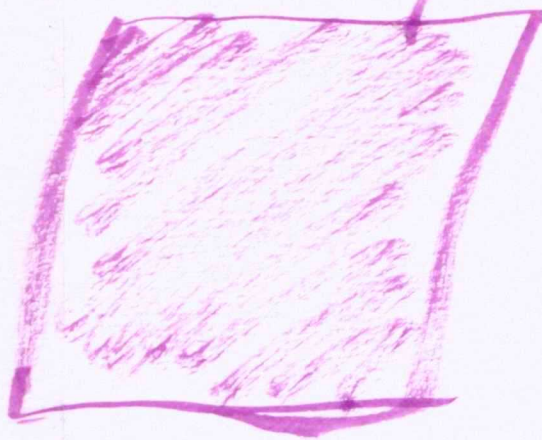
what if the lack of light
took longer to fade, serving
as artifacts?



Stars we see from earth are
mostly extinct for how long
it takes light to travel...



what if polarized paper could reveal
through some version of a heat/stress
map otherwise invisible emotional
truths?

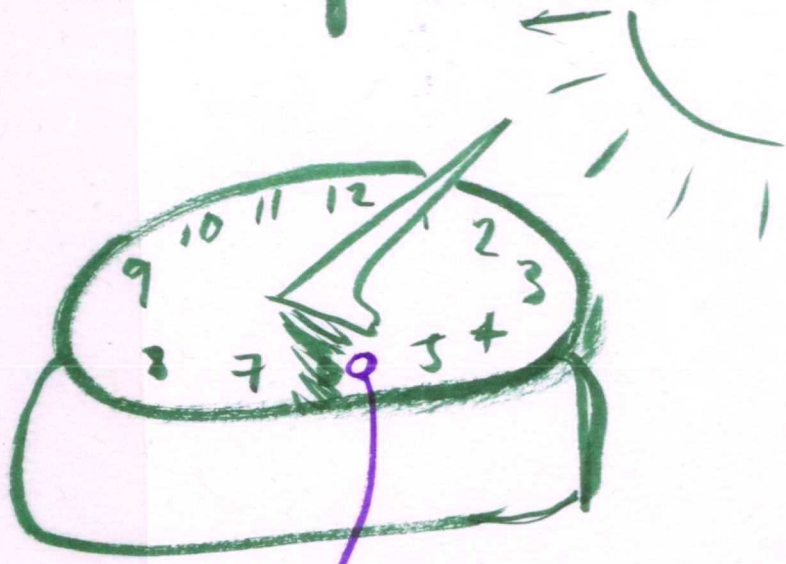


jaw tension,
anxiety



Burning cheeks,
anger or
embarrassment

What if shadows - typically dismissed & ignored - became operative?
What if shadows could serve as switches?



light sensor - when shadow hits an alarm sounds - a non-digital way to keep time / set reminders



As the sun goes down, shadow hits sensor in room, activating light w/out disturbing work flow



self-watering plant depending on time of day

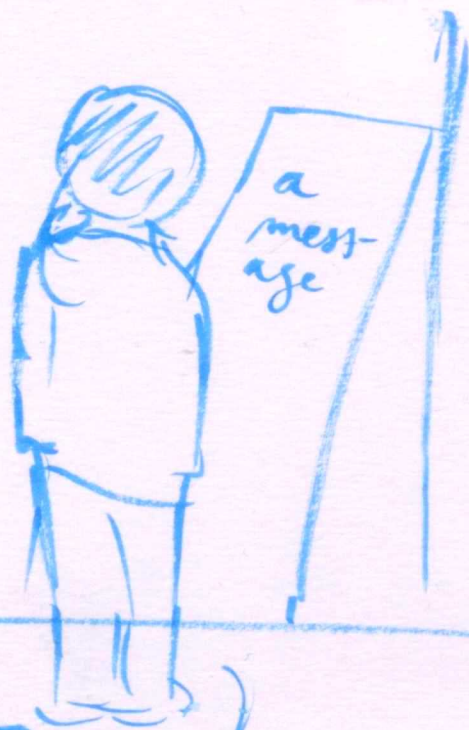
An immersive experience wherein navigating the space & producing shadows, enlightens? Shadows that reveal...

This glass comes from the...] wall uniting?

picking up a glass of water & detaching the cup

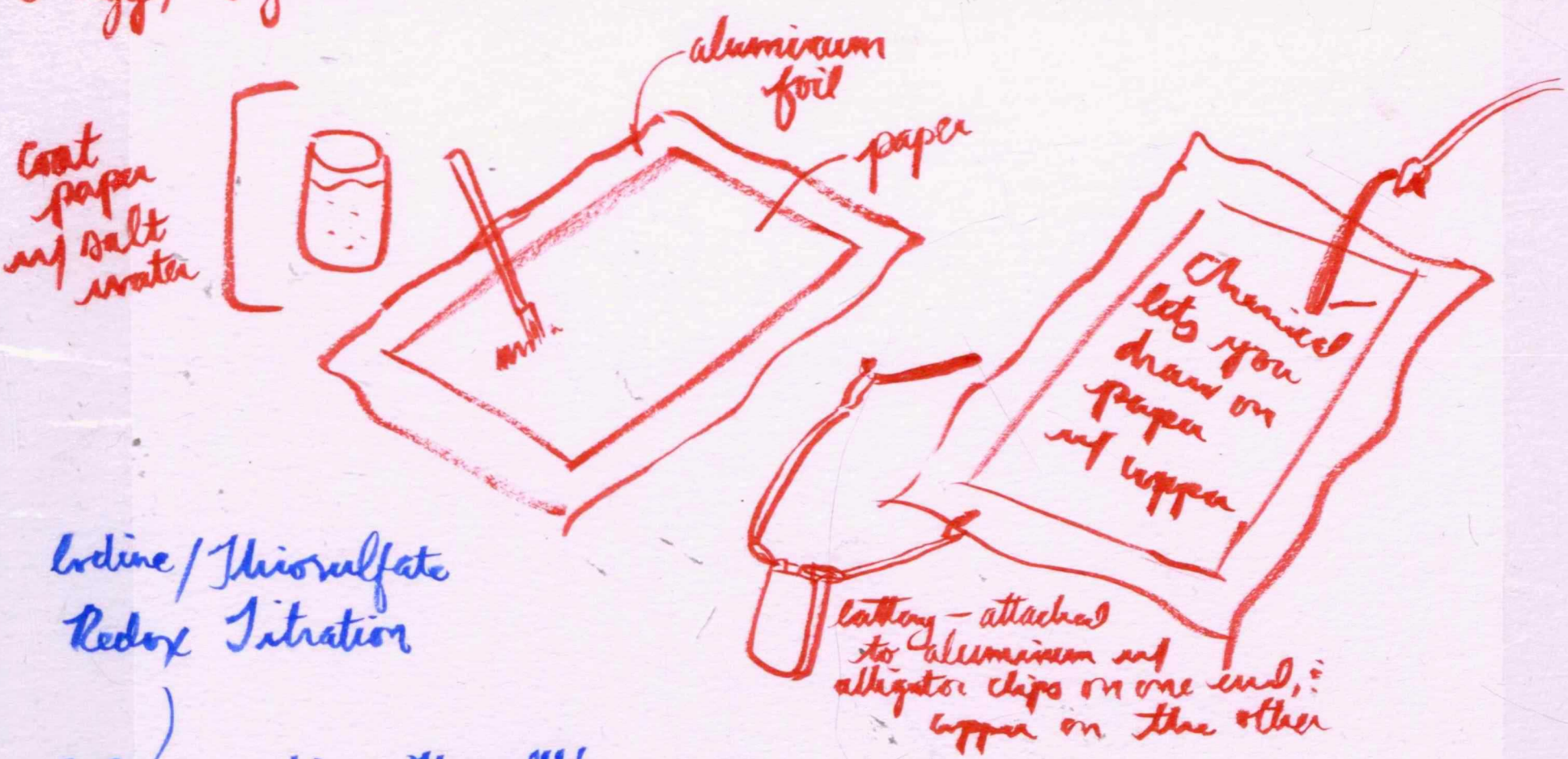


shadow triggers text



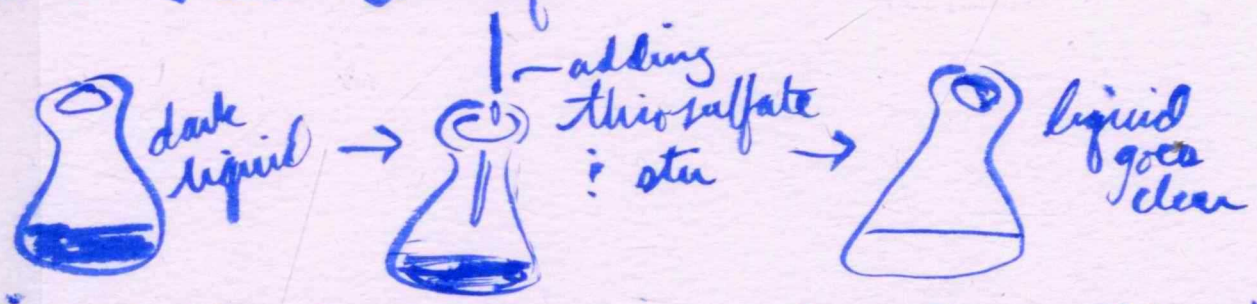
standing in front of the mirror prompts a message

Energy/Magnetics...

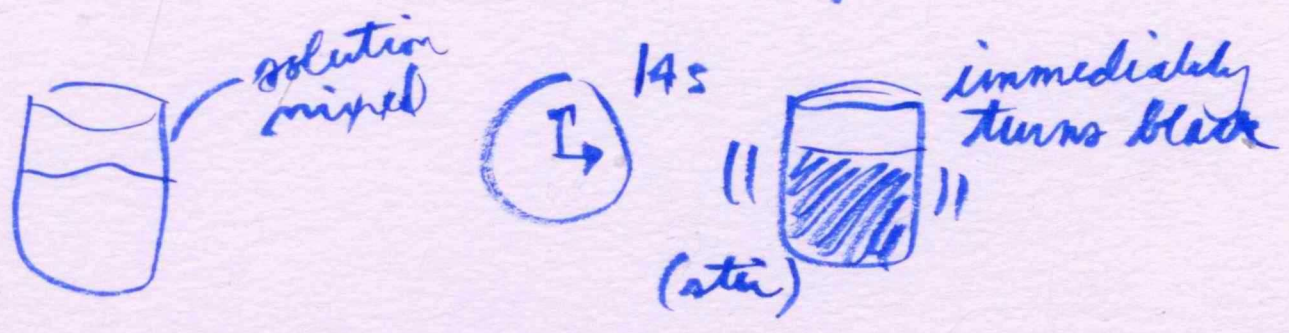


Iodine/Thiosulfate Redox Titration

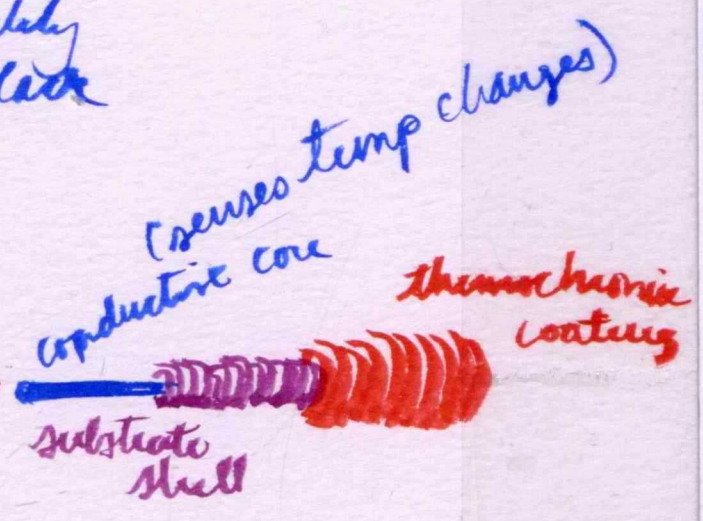
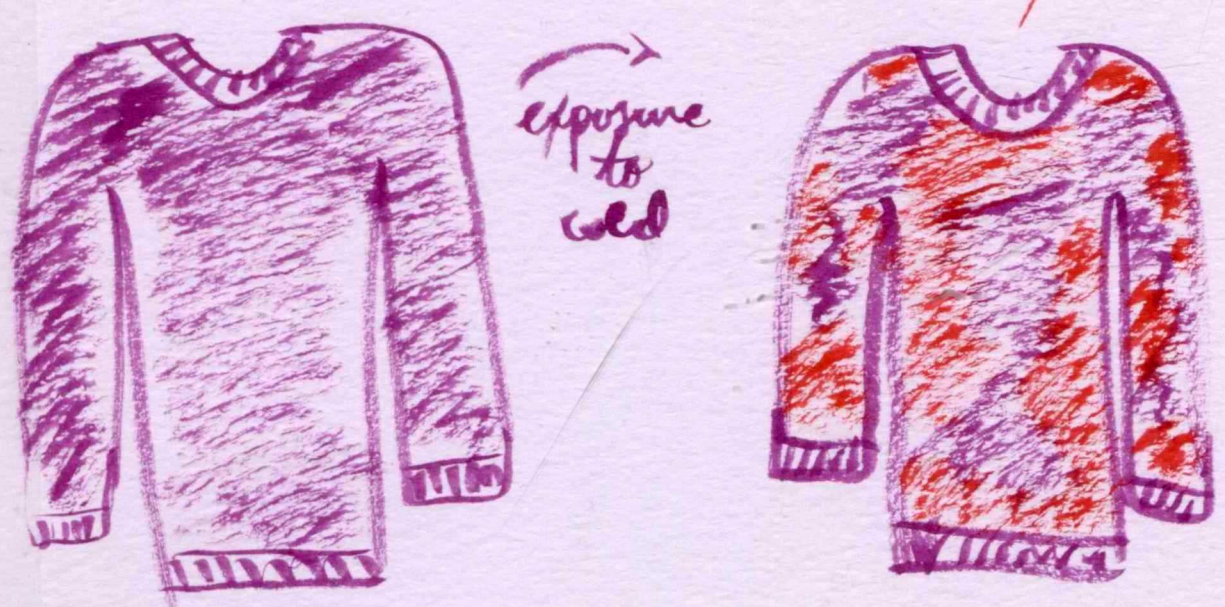
Iodine + Sodium Thiosulfate



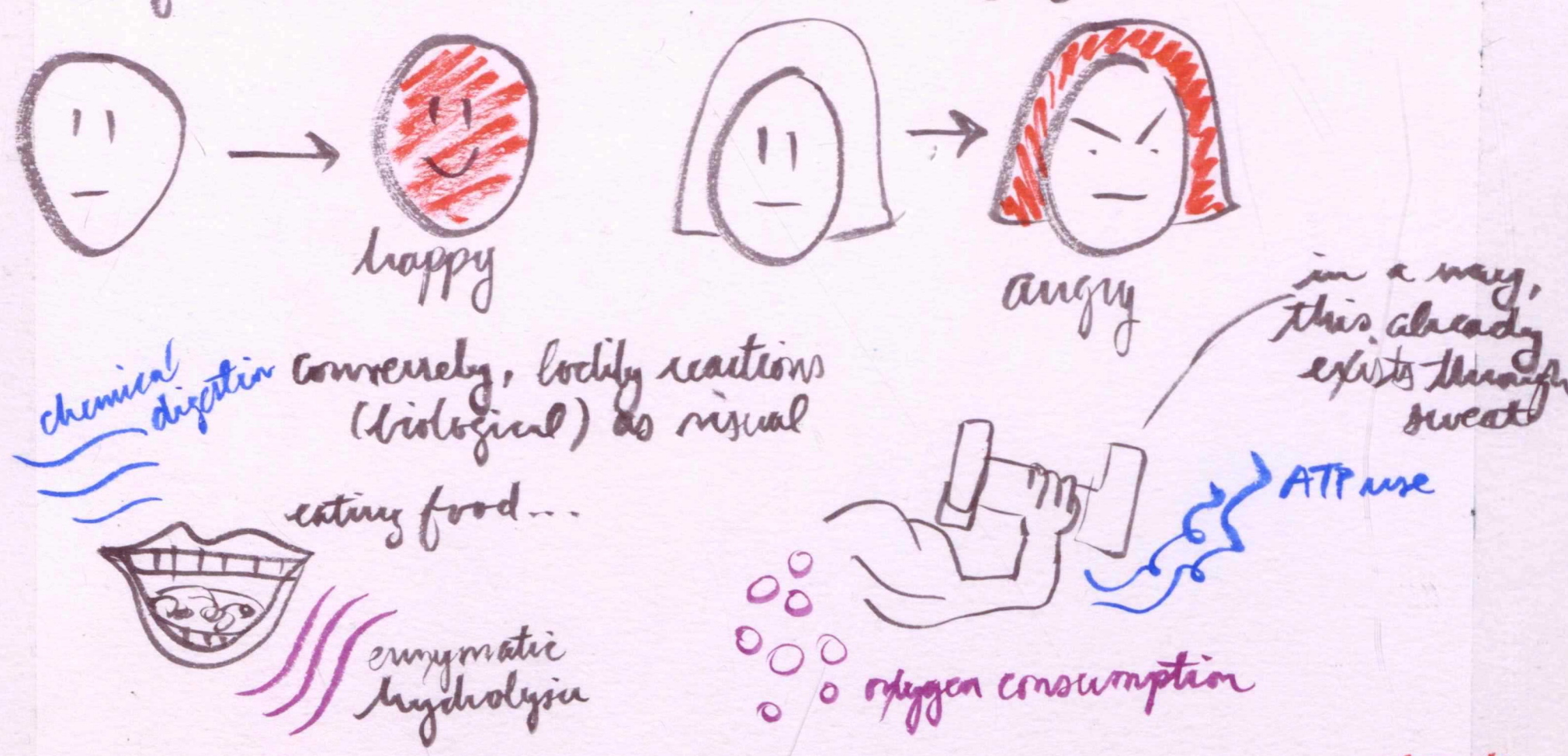
creating iodine "clock" reaction - thiosulfate + citric acid



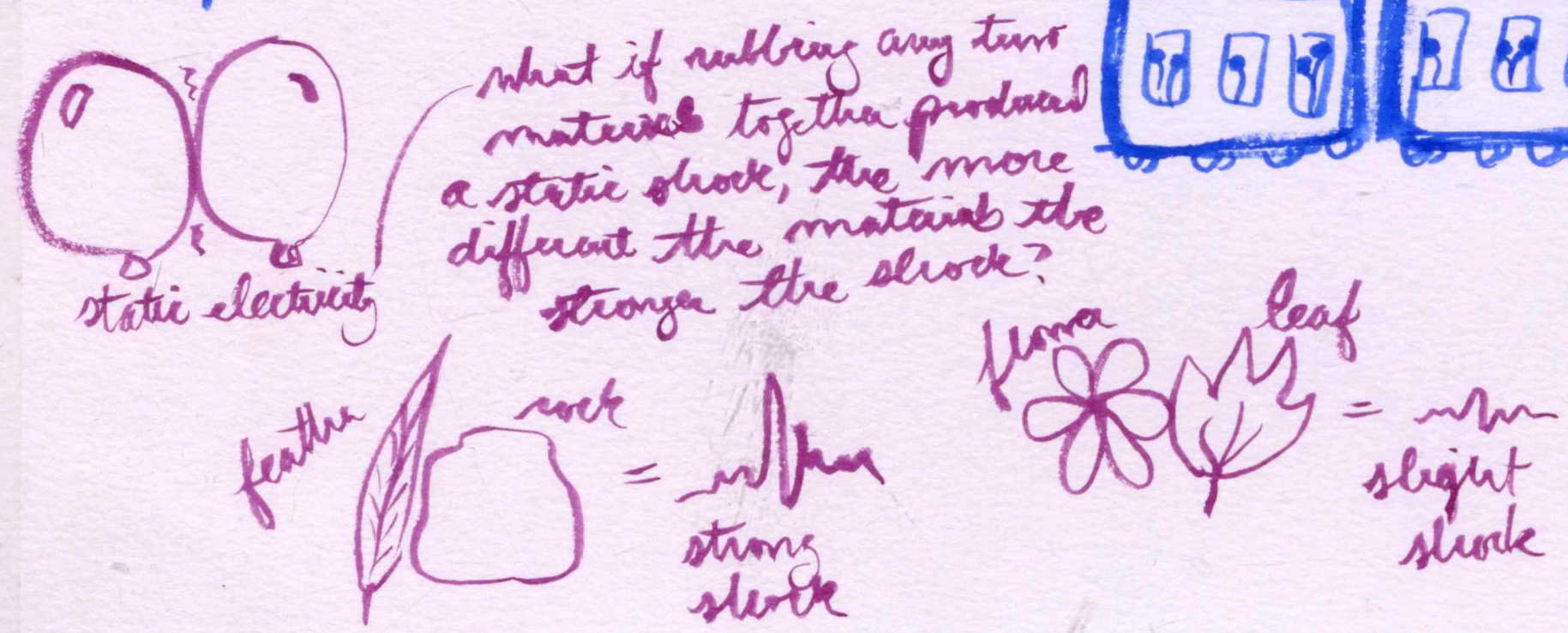
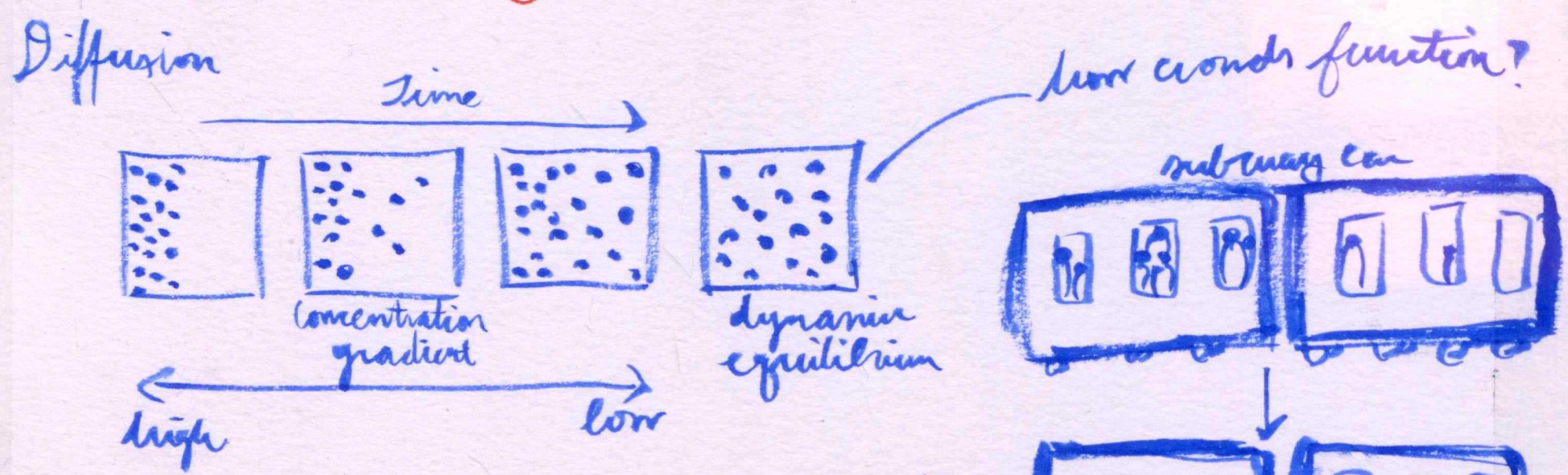
Thermodynamic knitwear



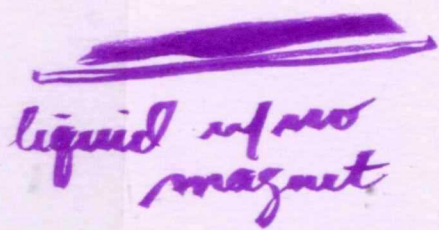
What if emotions worked like color changing chemical reactions?



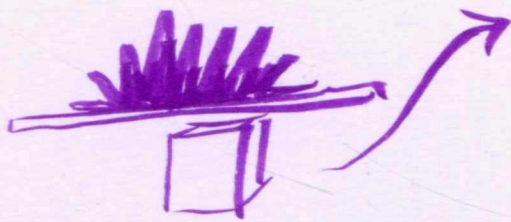
Positive & negative attraction of magnets → what if we naturally gravitate towards our opposites as social equilibrium?



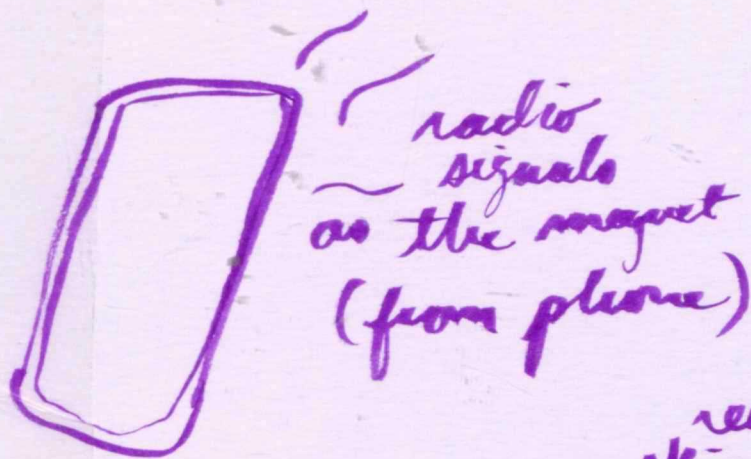
Ferrofluids...



liquid ferro magnet



spiky form of magnet



radio signals as the magnet (from phone)

reactive skin patches

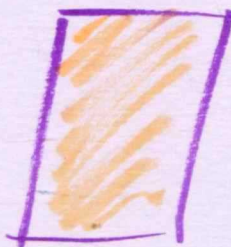


change color depending on # of notifications

a way to detach from phone, but stay aware of a high volume of calls/texts

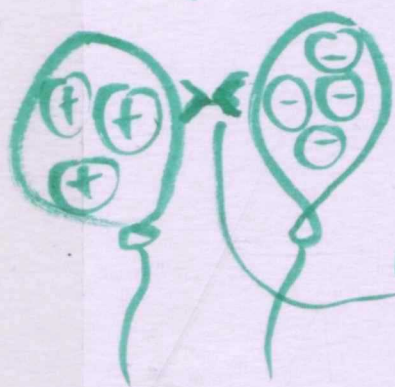


copper layer

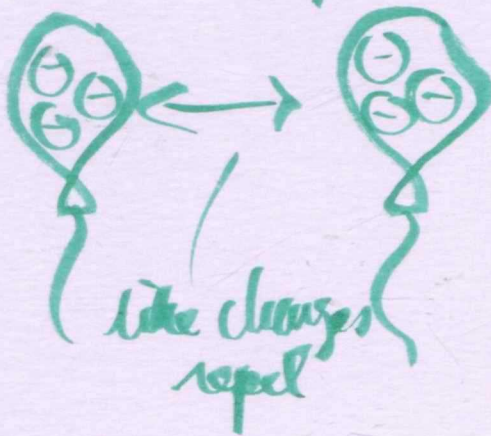


coated or conductive yarn that responds to radio frequency

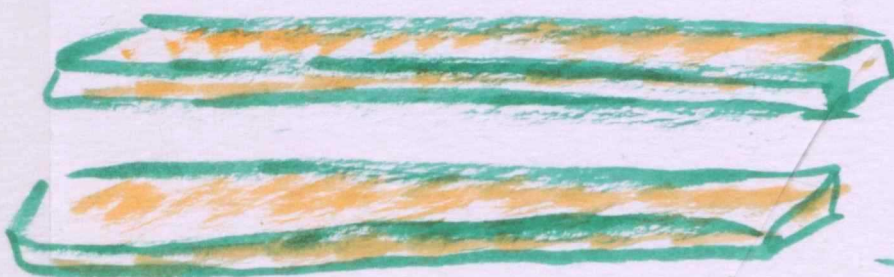
What if solar panels became static panels?



opposite charges attract



like charges repel



panels coated in latex



charge is created

can this static electricity be used as a battery?

