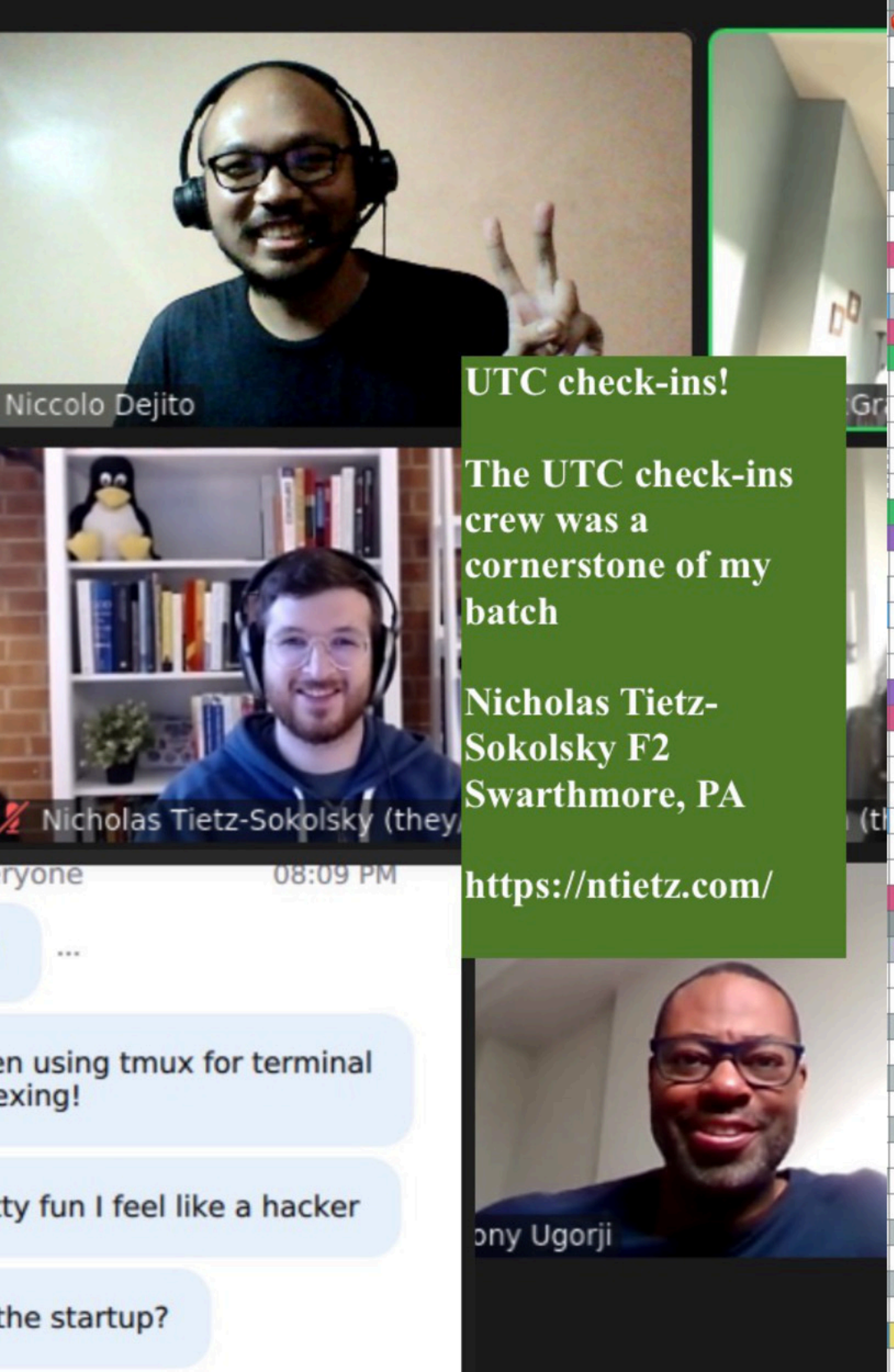
RECURSE ZINE

Dec2022 Fall2 / Win1 & Alumni

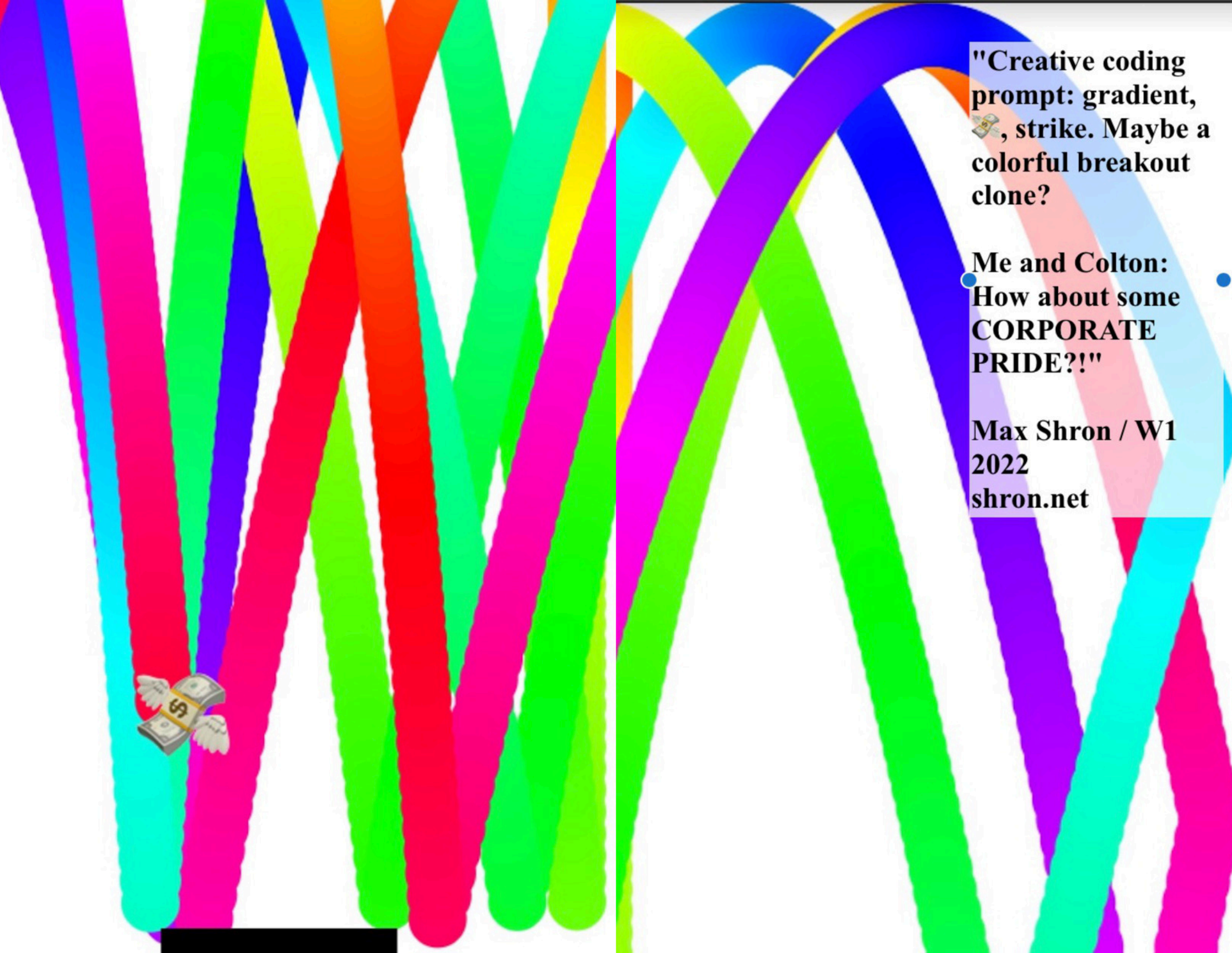


UTC check-ins!

The UTC check-ins crew was a cornerstone of my batch

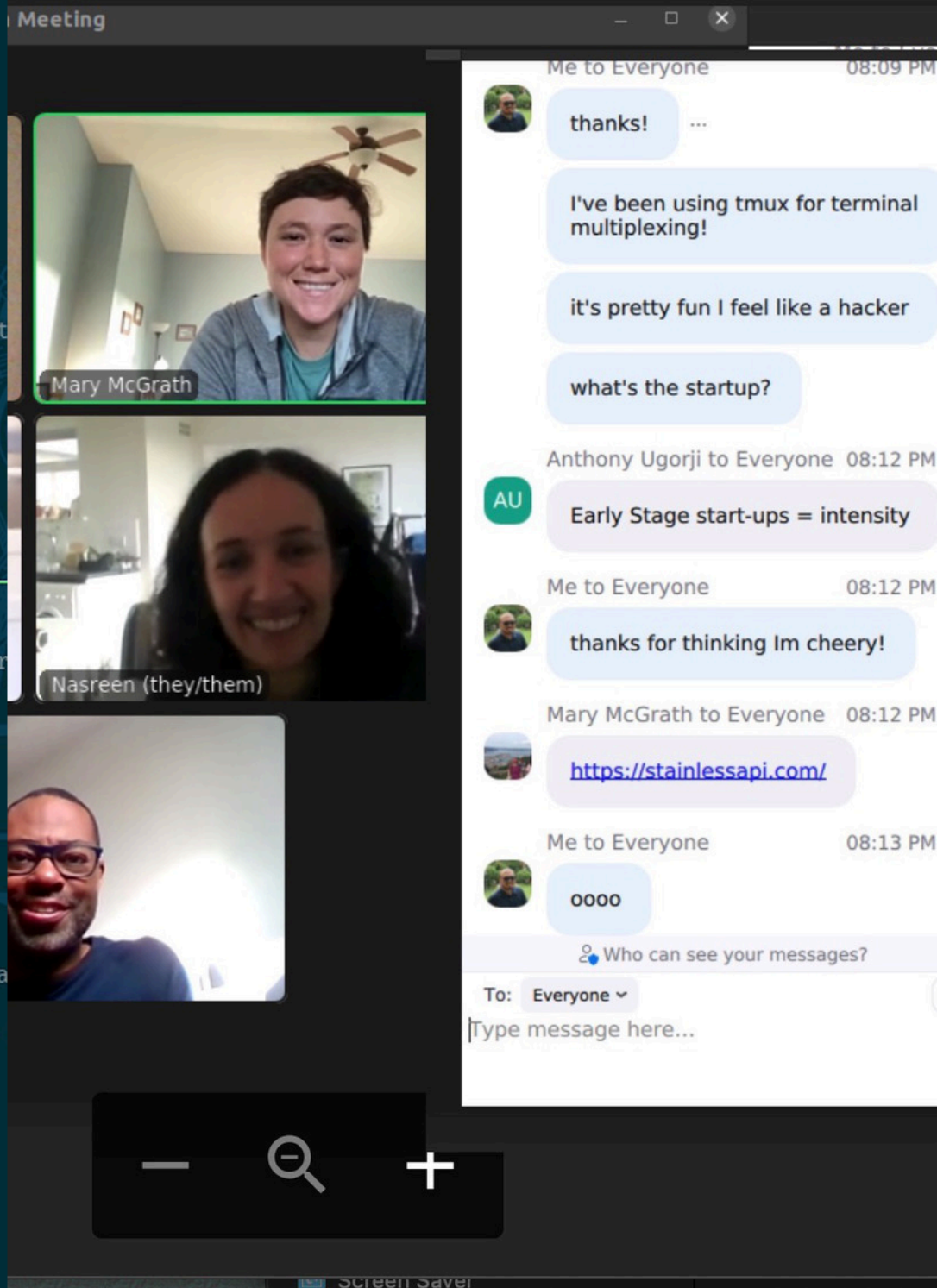
Nicholas Tietz-Sokolsky F2 Swarthmore, PA

https://ntietz.com/

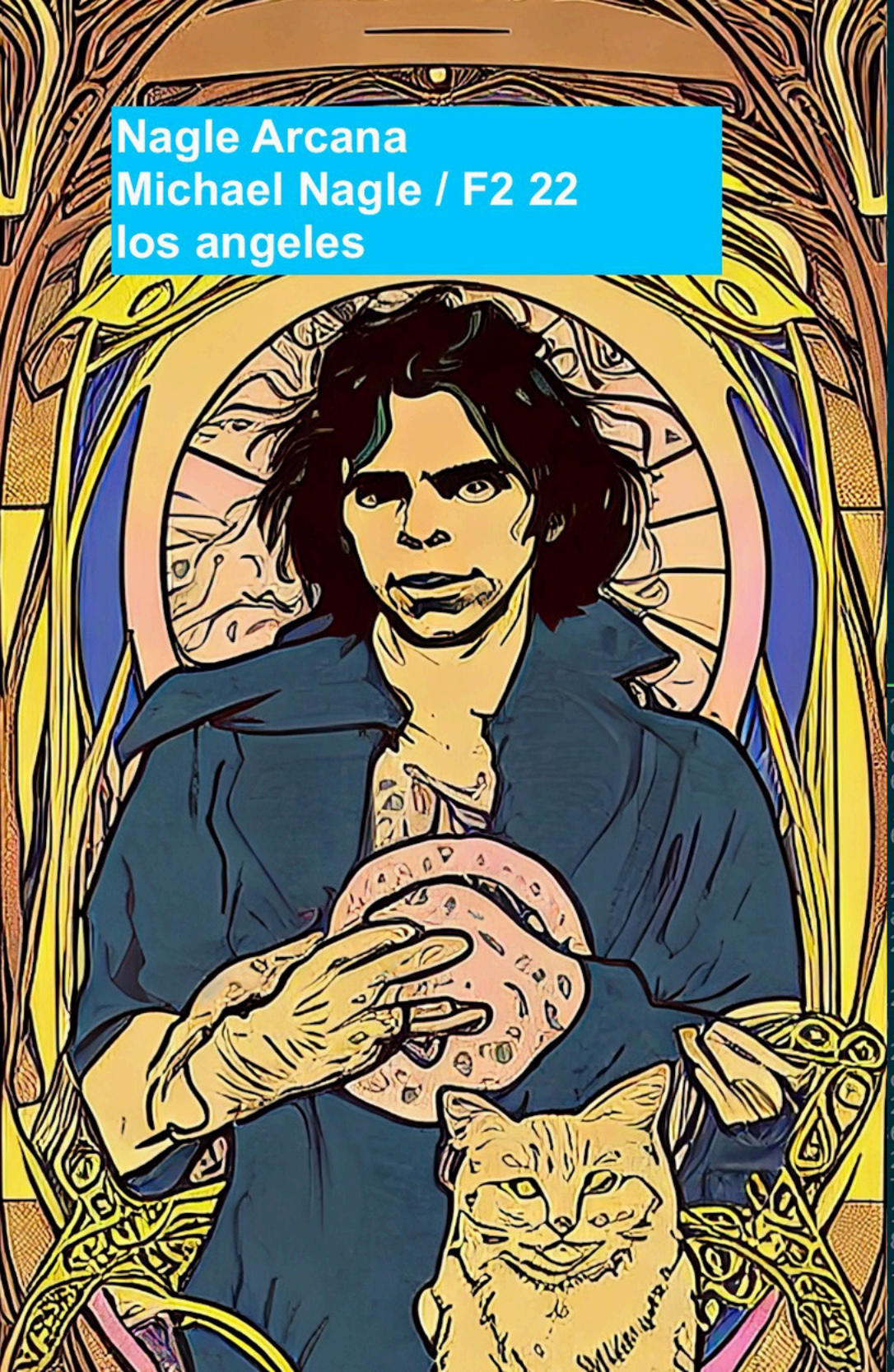

"Creative coding prompt: gradient, 💸, strike. Maybe a colorful breakout clone?
Me and Colton: How about some CORPORATE PRIDE?!"
Max Shron / W1 2022
shron.net

```
nc 137.184.164.207 9001
ou've connected to budget chat. Please input a username to use for
lice
You are the first person to join the chatroom!
Bob has joined!
Bob] Hey Alice!
ey Bob.
Bob] We're going to be in a zine!
Bob] Isn't that great?
eah!
can't wait.
Charlie has joined!
Charlie] Wassup nerds
harlie, someone's reading this in a zine in the future! Say hi!
Charlie] Hello future readers of whatever this is!
Bob] I hope that you, in particular, whoever is reading this right
've gotta go now, there's some stuff I need to do.
Charlie] Ok Alice, we'll talk later.
Bob] Yeah, take care Alice.
ye now!
%

took 10m21s
```

```
nc 137.184.164.207 9001
ou've connected to budget chat. Please input a username to use for
ob
The room contains Alice
ey Alice!
Alice] Hey Bob.
e're going to be in a zine!
sn't that great?
Alice] Yeah!
Alice] I can't wait.
Charlie has joined!
Charlie] Wassup nerds
Alice] Charlie, someone's reading this in a zine in the future! Sa
Charlie] Hello future readers of whatever this is!
hope that you, in particular, whoever is reading this right now,
Alice] I've gotta go now, there's some stuff I need to do.
Charlie] Ok Alice, we'll talk later.
eah, take care Alice.
Alice] Bye now!
Alice has left!
ust you and me now Charlie.
Charlie] Yeah, I guess so. How are you today anyways?
right, I guess
hat about you, my friend?
```



Eric 2022 S1
eric-xia.com




```
17:43:48 listening on port 9001
17:43:51 connection from 206.189.113.124:45920
17:43:51 Sent welcome message to 206.189.113.124:45920
17:43:51 Recieved name BigAlice654
17:43:51 Sending '* You are the first person to join the chatroom
17:43:51 Registering client 206.189.113.124:45920, as BigAlice654
17:43:51 Client list: [BigAlice654]
17:43:51 BigAlice654 says: all PROTOHACKERS intrusion quartz PROT
17:43:54 closed connection from 206.189.113.124:45920
17:43:55 connection from 206.189.113.124:45930
17:43:55 Sent welcome message to 206.189.113.124:45930
17:43:55 Recieved name watchman
17:43:55 Sending '* You are the first person to join the chatroom
17:43:55 Registering client 206.189.113.124:45930, as watchman!
17:43:55 Client list: [watchman]
17:43:55 connection from 206.189.113.124:45932
17:43:55 Sent welcome message to 206.189.113.124:45932
17:43:56 connection from 206.189.113.124:45934
17:43:56 Sent welcome message to 206.189.113.124:45934
17:43:56 Recieved name alice
17:43:56 Sending '* alice has joined!' to watchman
17:43:56 Sending '* The room contains watchman' to alice
17:43:56 Registering                                        e!
17:43:56 Client list:
17:43:56 alice says:
```

```
~# tcpdump -i eth0 por                                      code
erbose output suppress                                      4 bytes
on eth0, link-type EN1                                      , seq 2
66398 IP box1.protohac
,sackOK,TS val 1858619
66442 IP zine.9001 > b                                      ], seq

29936 IP box1.protohac                                      , seq 8
ackOK,TS val 185863372
29979 IP zine.9001 > b                                      ], seq

26699 IP box1.protohac                                      , seq 1
,sackOK,TS val 1858641
26752 IP zine.9001 > b                                      ], seq
options [mss 1460,sackOK,TS val 1086176244 ecr 1858641620,nop,wsca
22659 IP box1.protohackers.com.45920 > zine.9001: Flags [.], ack 1
641716 ecr 1086176244], length 0
23191 IP zine.9001 > box1.protohackers.com.45920: Flags [P.], seq
TS val 1086176341 ecr 1858641716], length 82
18885 IP box1.protohackers.com.45920 > zine.9001: Flags [.], ack 8
8641812 ecr 1086176341], length 0
19179 IP box1.protohackers.com.45920 > zine.9001: Flags [P.], seq
,TS val 1858641812 ecr 1086176341], length 12
19203 IP zine.9001 > box1.protohackers.com.45920: Flags [.], ack 1
6176437 ecr 1858641812], length 0
```

Budget Chat

A TCP chat service made for challenge #3 in the protohackers challenge series.

Source code for the chat server.

```
// Play from buffer.
function play(buffer, rate) {
  const source =
audioContext.createBufferSource();
  source.buffer = buffer;
  source.playbackRate.value = rate;
  source.connect(audioContext.destination);
  source.start();
}

// Load sound buffer from path
async function load(path) {
  const response = await fetch("./" + path);
  const arrayBuffer = await
response.arrayBuffer();
  return
audioContext.decodeAudioData(arrayBuffer
);
}

// Add sound file to sounds array
function addSound(path, index) {
  load(path).then((response) => {
    sounds[index] = response;
  });
```

```
Add sound file to sounds array
nction addSound(path, index) {
oad(path).then((response) => {
sounds[index] = response;
};

eturn index;
```

quackspeak

Text-to-speech using ducks. 🦆
https://github.com/burntcarrot/quackspeak

Aadhav Vignesh
Fall 2, 2022
https://github.com/burntcarrot

qu

Te 🦆
ht rot/quackspeak

Aadhav Vignesh --> Fall 2, 2022
https://github.com/burntcarrot

Charjabug
Winter 1 2022

https://oneirocosm.com

ox v Lox

attle of the *Crafting Interpreters* implementation k interpreter in Rust v. a bytecode virtual machi

rogram Fibonacci (recursive)

```
fun fib(n) {
  if (n <= 1) return n;
  return fib(n - 2) + fib(n - 1);
}

var start = clock();
for (var i = 1; i <= 25; i = i + 1) {
  print fib(i);
}

print "time to execute (ms):";
print clock() - start;
```

run

st

Zig

lox-v-lox: Zig Schmears Lox

https://mcmcgrath13.github.io/lox-v-lox/

Mary McGrath
Fall 2 2022

ZineBot ✂️

Browse... 20 files selected.

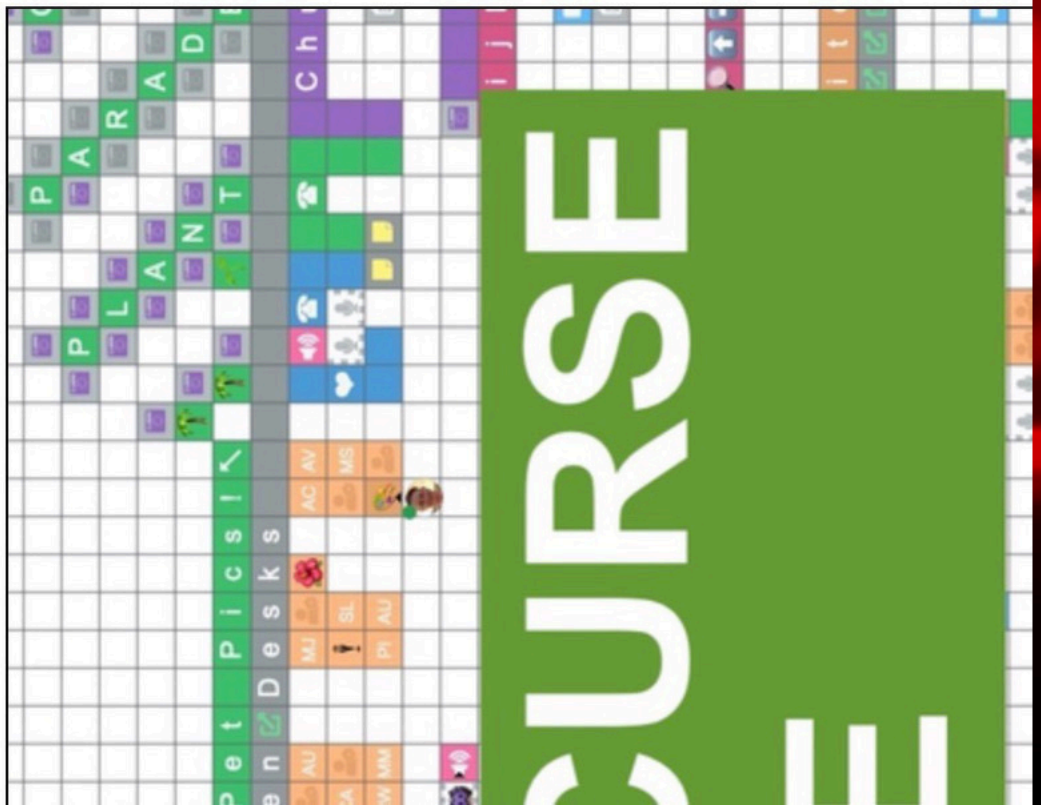
image magick:

random magick | reset magick

page pixel width:

850

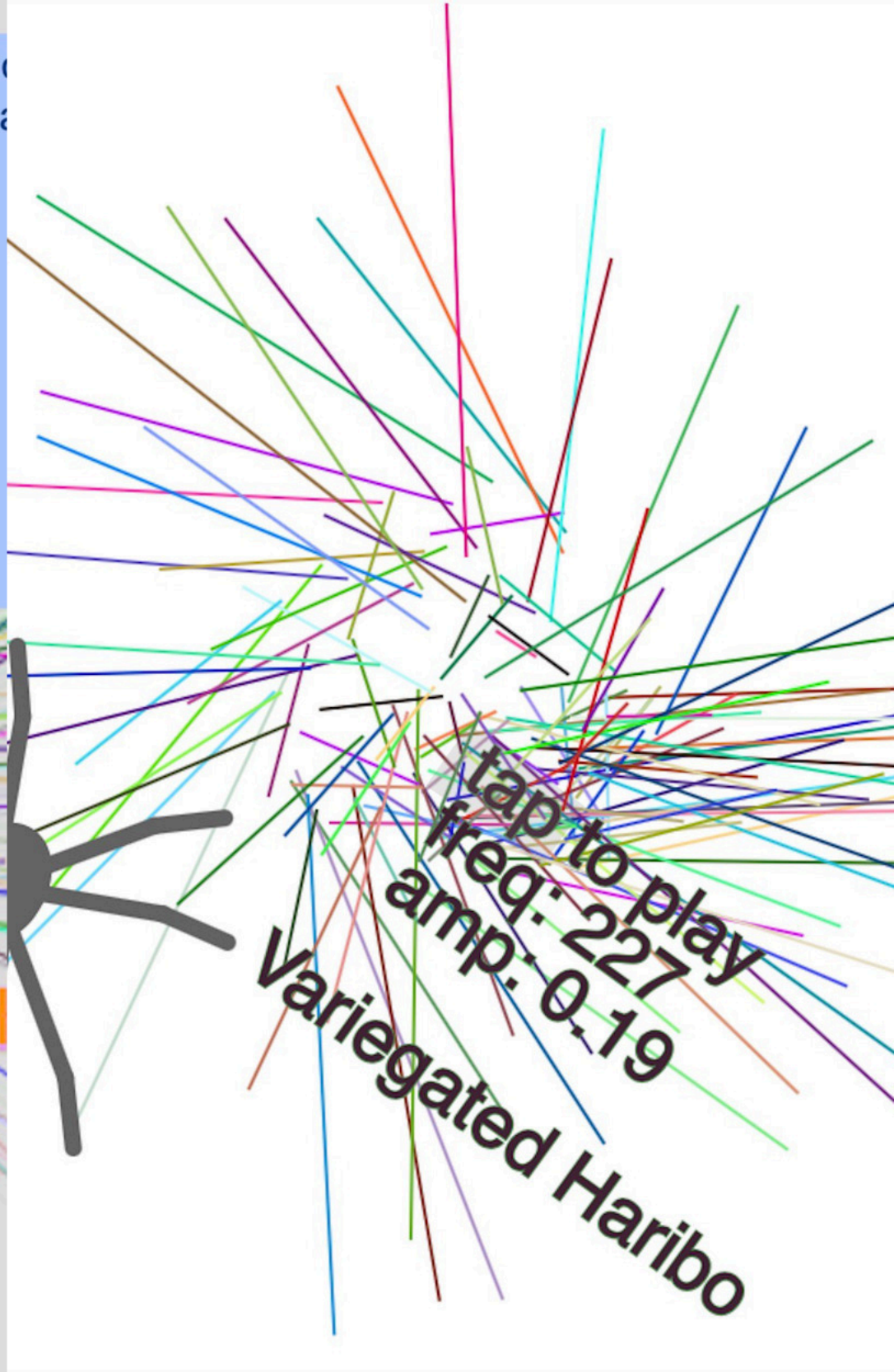
half-page zine | full-horizontal pages | full-vertical pages | downloa

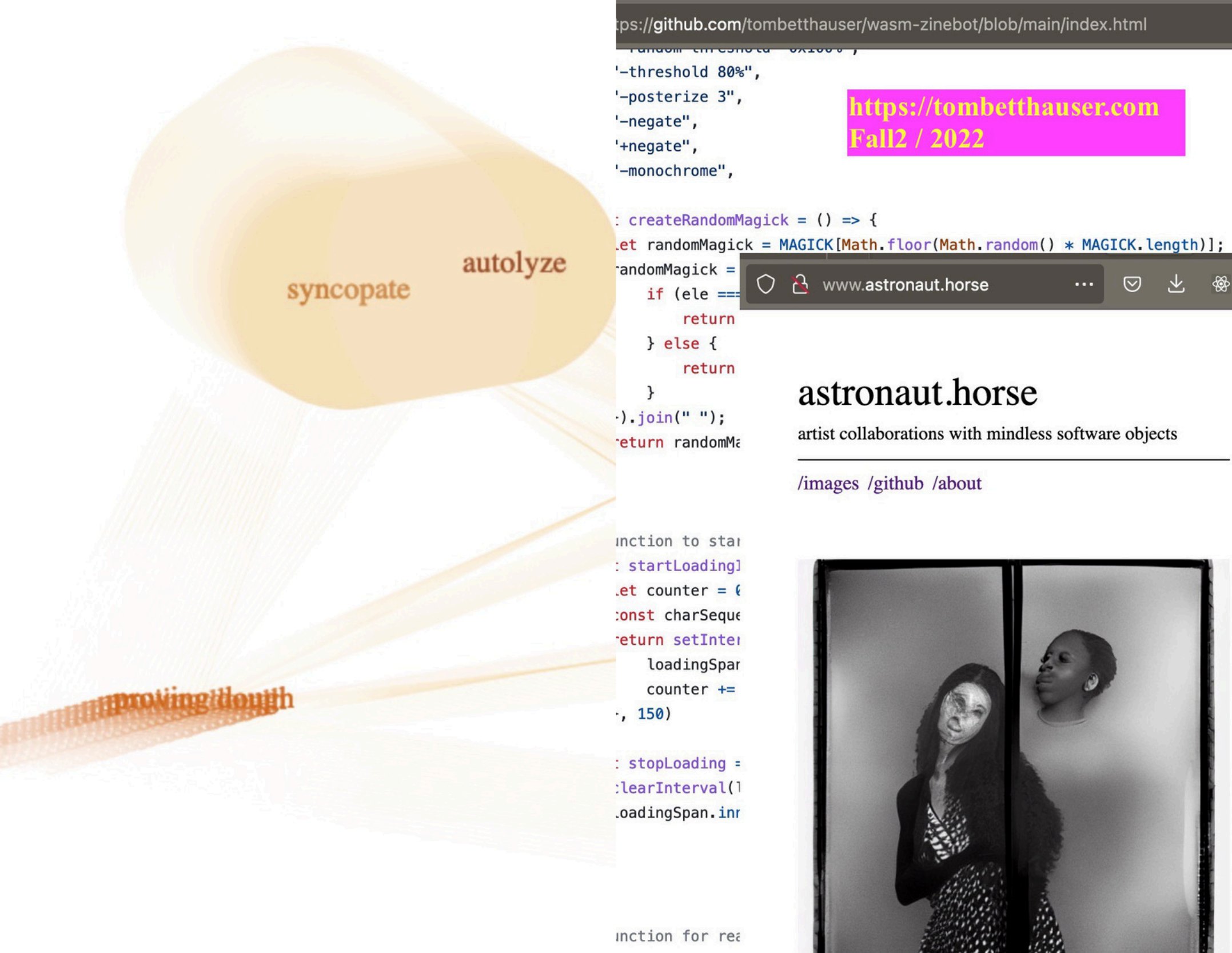


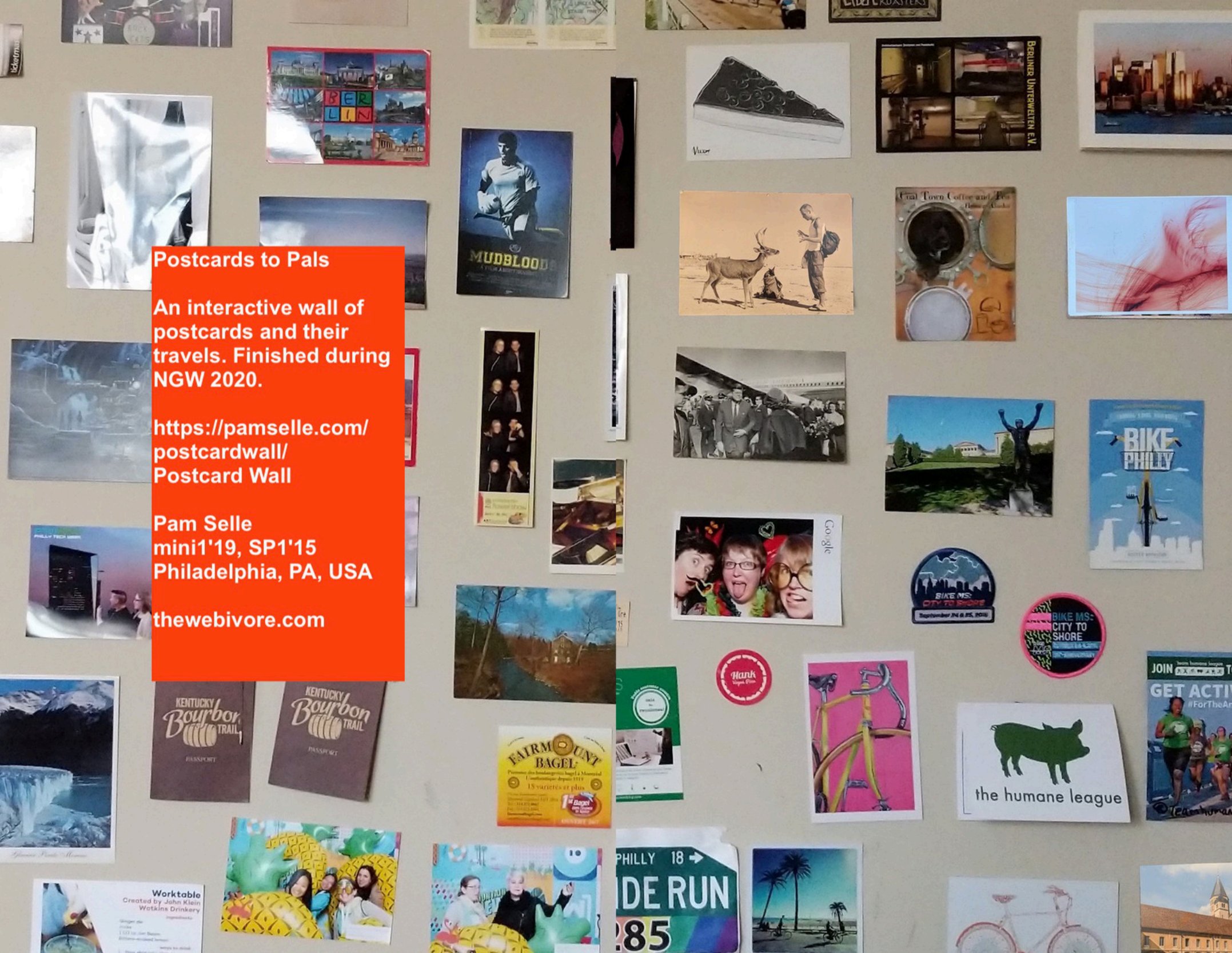
Creative coding a Variegated Haribo
by Sean Greaves, Elizabeth Funk, a
Angela Chang

Variegated Haribo
https://editor.p5js.org/anjchang/
collections/20Ecok1A5

anjchang / W 1 22 / Boston, MA
GitHub.com/anjchang




syncopate
autolyze
tps://github.com/tombetthauser/wasm-zinebot/blob/main/index.html
'-threshold 80%",
'-posterize 3",
'-negate",
'+negate",
'-monochrome",
https://tombetthauser.com
Fall2 / 2022
: createRandomMagick = () => {
.et randomMagick = MAGICK[Math.floor(Math.random() * MAGICK.length)];
randomMagick =
if (ele ===
return
} else {
return
}
).join(" ");
return randomMa
www.astronaut.horse
astronaut.horse
artist collaborations with mindless software objects
/images /github /about
unction to star
: startLoading]
.et counter = 0
const charSeque
return setInter
loadingSpar
counter +=
, 150)
: stopLoading =
clearInterval(
.oadingSpan.inr
unction for rea



Postcards to Pals

An interactive wall of postcards and their travels. Finished during NGW 2020.

https://pamselle.com/postcardwall/
Postcard Wall

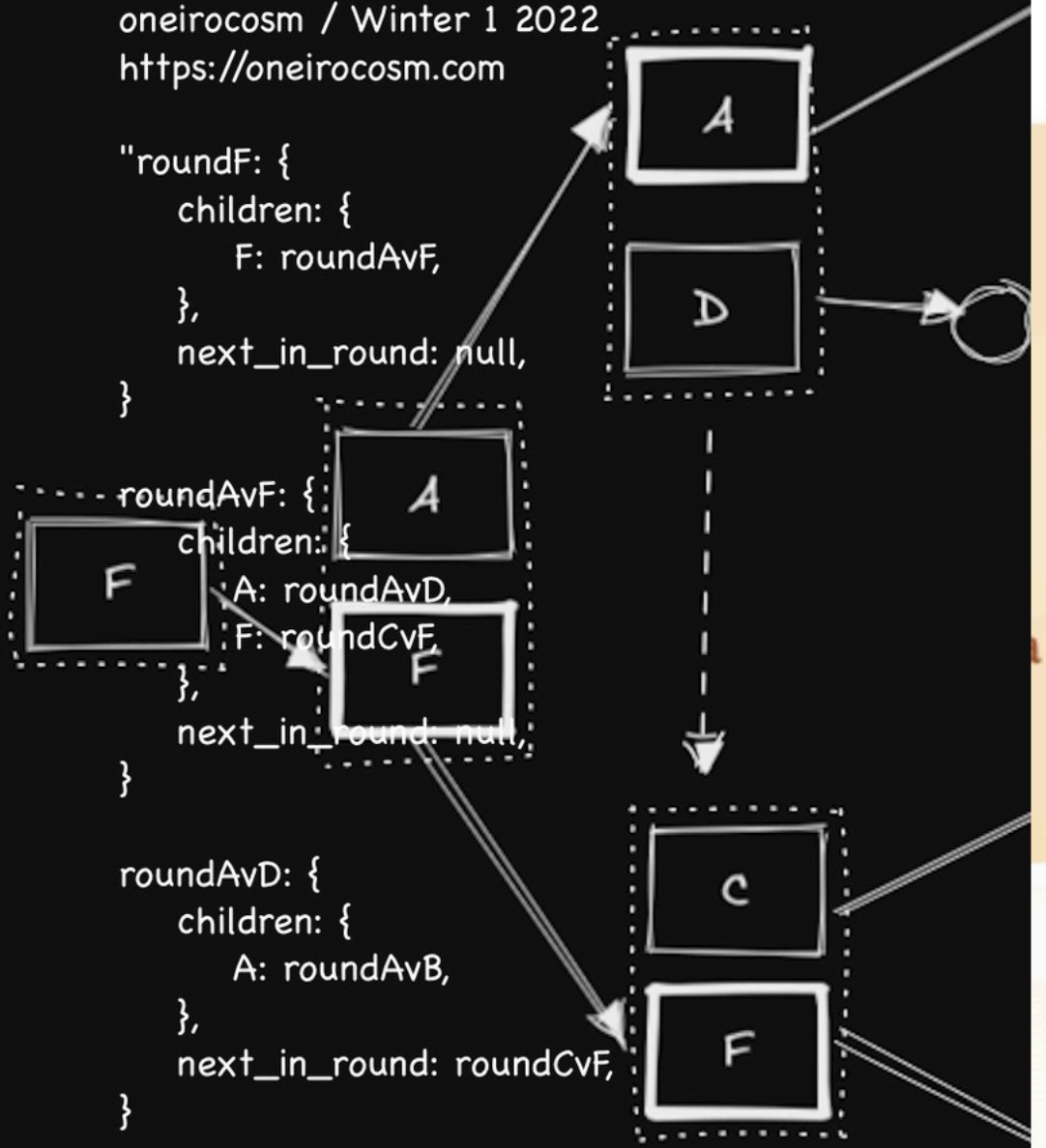
Pam Selle
mini1'19, SP1'15
Philadelphia, PA, USA

thewebivore.com

Champs Bracket

Planning in Excalidraw
oneirocosm / Winter 1 2022
https://oneirocosm.com

```
"roundF: {
    children: {
        F: roundAvF,
    },
    next_in_round: null,
}

roundAvF: {
    children: {
        A: roundAvD,
        F: roundCvF,
    },
    next_in_round: null,
}

roundAvD: {
    children: {
        A: roundAvB,
    },
    next_in_round: roundCvF,
}

roundCvF: {
    children: {
        C: roundCvD,
        F: roundEvF,
```



teasing you

a rise pleasing choux

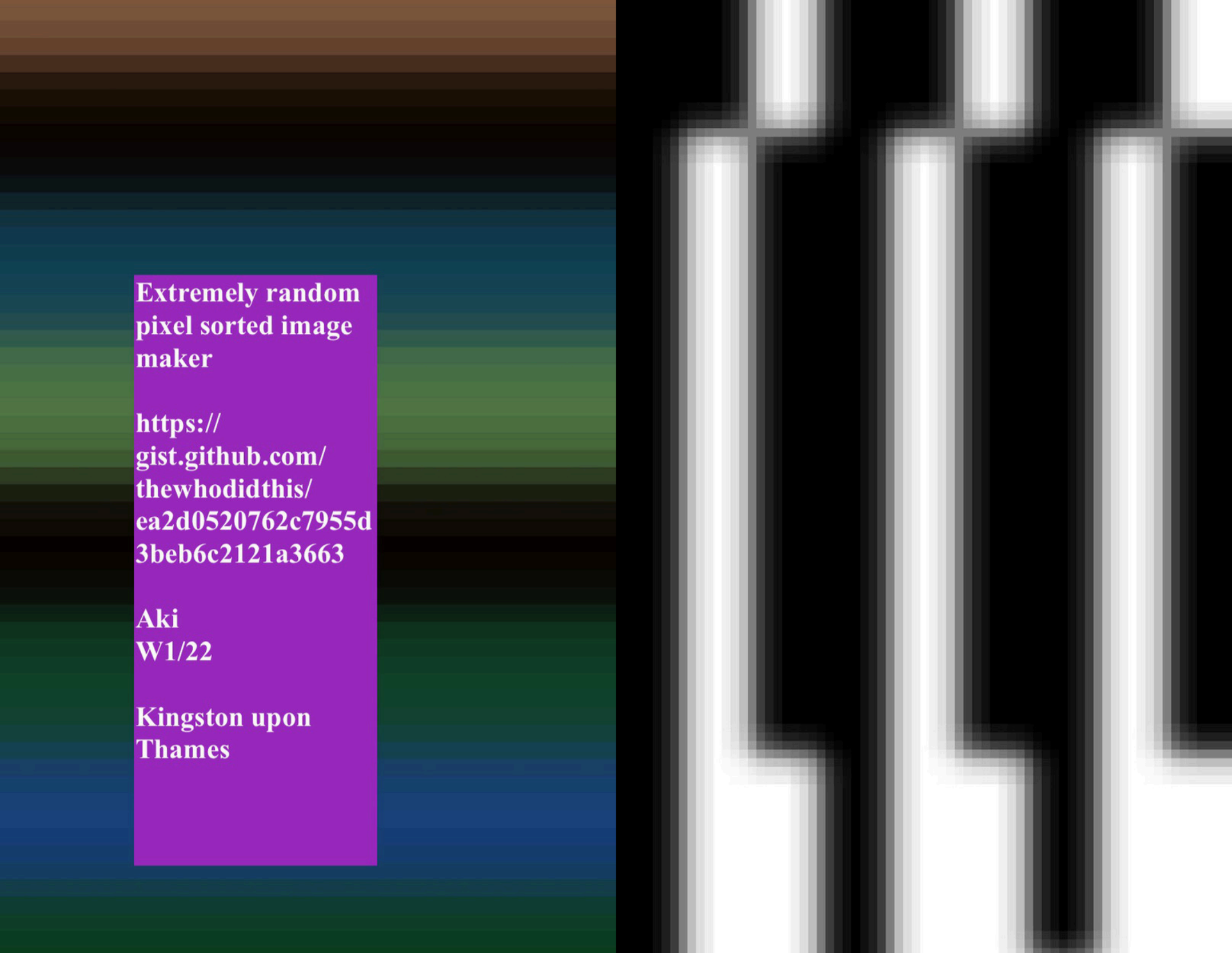
steam inside
breathy space

tender rhymes

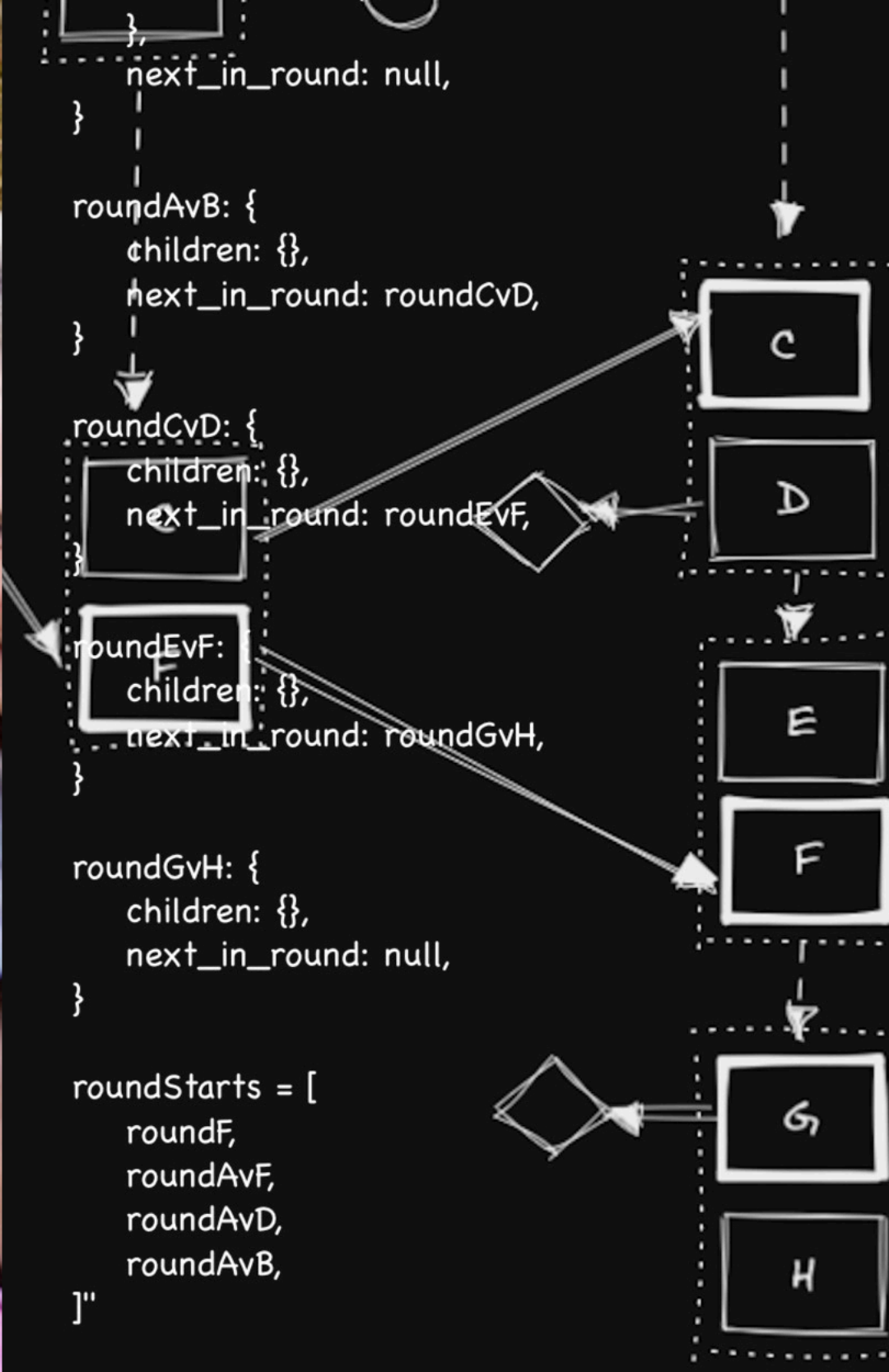
No Knead,
A tribute to the spontaneous way ideas start

anjchang / Winter1 22 Boston, MA

https://github.com/anjchang/noknead

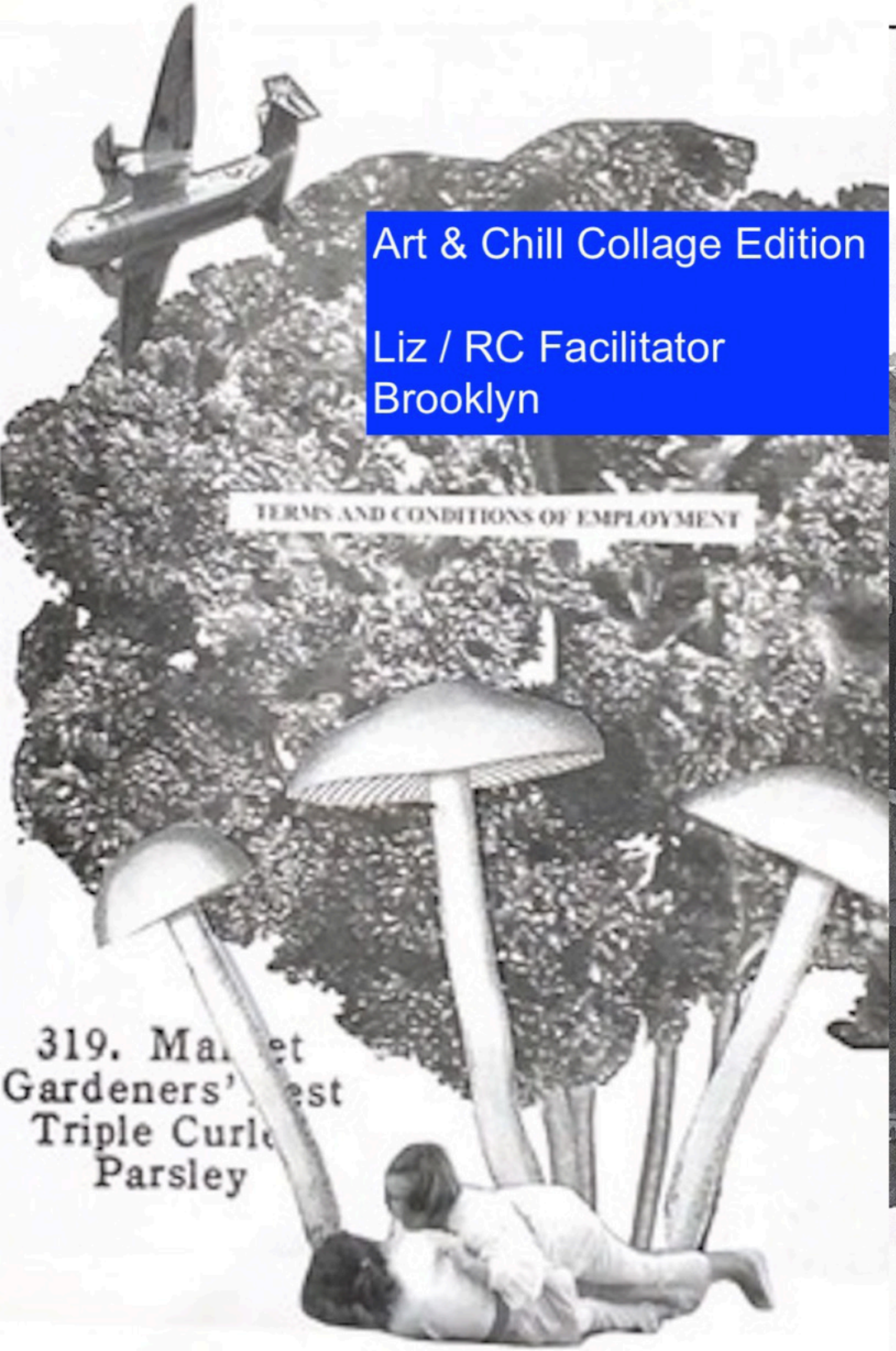

Extremely random pixel sorted image maker
https://gist.github.com/thewhodidthis/ea2d0520762c7955d3beb6c2121a3663
Aki
W1/22
Kingston upon Thames

```
    },
    next_in_round: null,
}

roundAvB: {
    children: {},
    next_in_round: roundCvD,
}

roundCvD: {
    children: {},
    next_in_round: roundEvF,
}

roundEvF:
    children: {},
    next_in_round: roundGvH,
}

roundGvH: {
    children: {},
    next_in_round: null,
}

roundStarts = [
    roundF,
    roundAvF,
    roundAvD,
    roundAvB,
]"
```

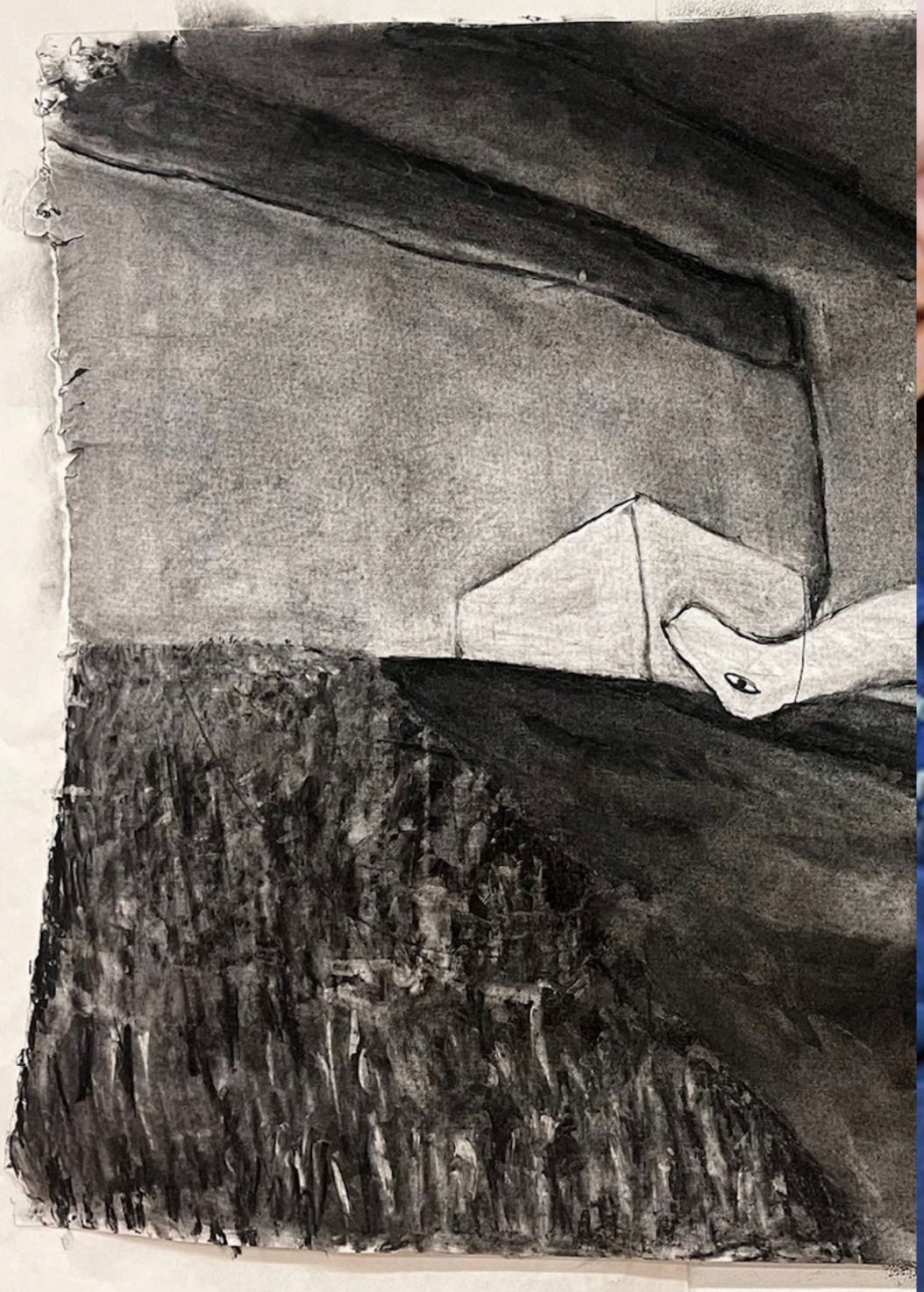


Art & Chill Collage Edition

Liz / RC Facilitator
Brooklyn



Eric 2022 S1
eric-xia.com



patiboh
W1 2022
Paris

Round 1

```
ITH match_entry_data as (
  SELECT
    m_entrs.match_id,
    JSON_AGG(JSON_BUILD_OBJECT(
        'pokemon_name', pkmn.pokemon_name,
        'is_winner', m_entrs.is_winner,
        'is_from_revival',
entrs.is_from_revival
    )) as match_entry_data
  FROM pokemon pkmn
  INNER JOIN match_entries m_entrs
    ON pkmn.pokemon_id = m_entrs.pokemon_id
  GROUP BY m_entrs.match_id

tch_data as (
  SELECT
    matches.round_id,
    JSON_AGG(
        m_entr_dat
    ) match_data
  FROM matches
  INNER JOIN match_entry_data as m_entr_dat
    ON matches.match_id = m_entr_dat.match_
  GROUP BY matches.round_id

und_data as (
  SELECT JSON_BUILD_OBJECT(
    'round_name', rounds.round_name,
    'matches', match_data
  ) round_data
OM rounds
NER JOIN match_data
  ON rounds.round_id = match_data.round_id
```

Round 2

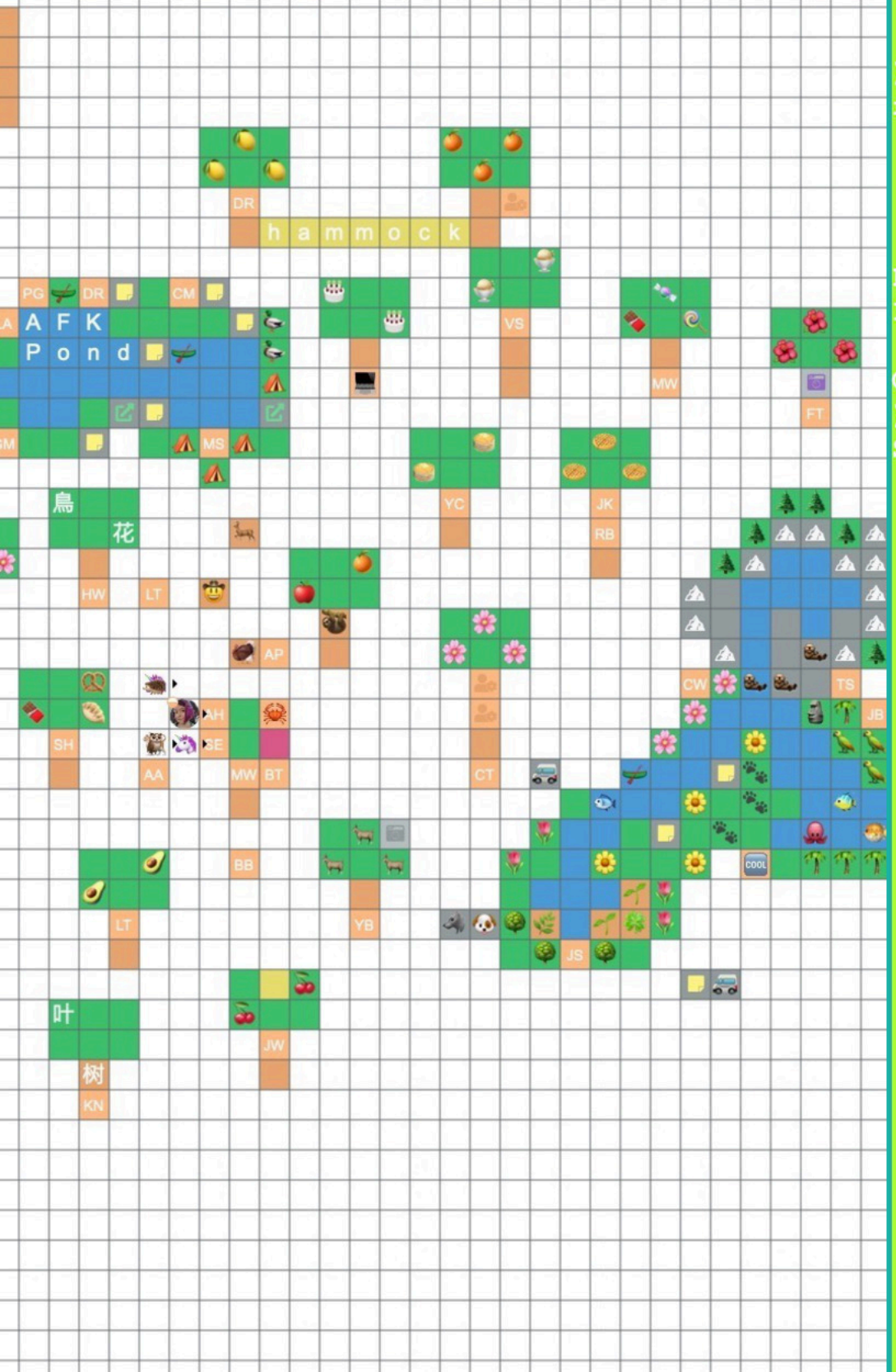
venonat

burmy

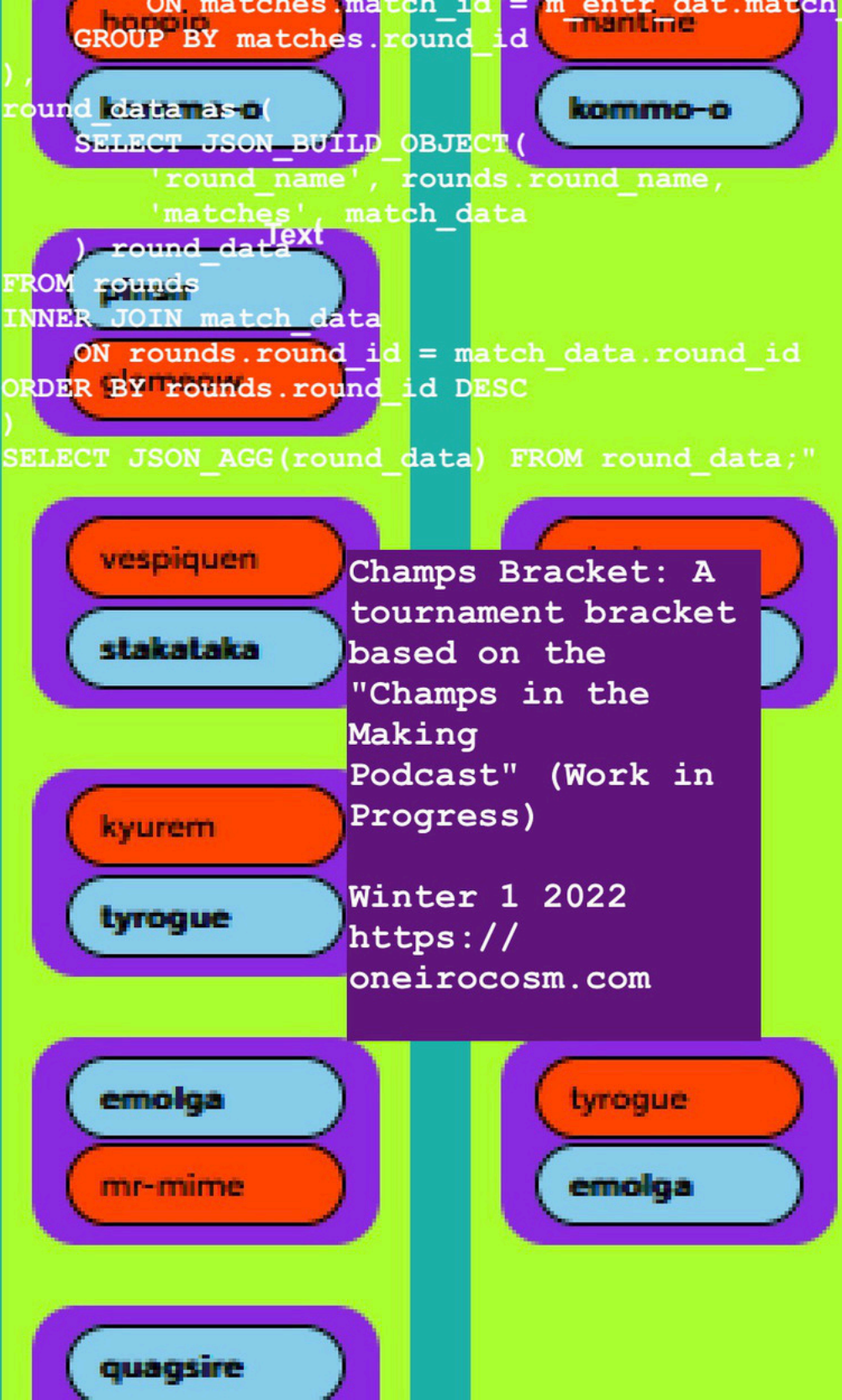
dracozolt

magearna

Richard Stallman in GTA San Andreas carrying an AK47




```
    ON matches.match_id = m_entr_dat.match_id
    GROUP BY matches.round_id
),
round_data as (
    SELECT JSON_BUILD_OBJECT(
        'round_name', rounds.round_name,
        'matches', match_data
    ) round_data
FROM rounds
INNER JOIN match_data
    ON rounds.round_id = match_data.round_id
ORDER BY rounds.round_id DESC
)
SELECT JSON_AGG(round_data) FROM round_data;"
```



Champs Bracket: A tournament bracket based on the "Champs in the Making Podcast" (Work in Progress)

Winter 1 2022
https://oneirocosm.com

Best Teeth #1
Colgate Hudson
Toothpaste