



```
$ spin 2
                stitch "1(<3 5>,8,<0 2 3>)" (sound "kick:4") (sound "hc")
                  room 0.12 # orbit 0
d2
          $ struct "1 0 0 1 0 1 1 0 " $ sound "bmcp"
      # orbit 1
   A STATE OF THE PARTY OF THE PAR
d3
          $ sew (iter 4 "1 0")
           ( n "0 .. 7" # sound "cps1")
           (n "0 .. 7" # sound "cpu")
         # orbit 2
          $ stitch (binary "<127 63>") (sound "hjdsynth:12") (sound "hjdsynth")
         # cutoff (range 200 4000 $ slow 8 $ saw)
         # resonance (range 0.1 0.2 $ slow 8 $ saw)
         # note (choose [5,9,0, 12, 16,17, 19])
                                                                                                                                                                                                      Live Coding Practices:
         # room 0.89 # orbit 3
                                                                                                                                                                                                     Code as an artists' material
 5() let img; p.load/mage(atom.proi
                                                                                                                                                                                                ng ; Img => : p.clear() p.image(img, 0, 0, width, height); y.c.hiideth, so init({src:
```



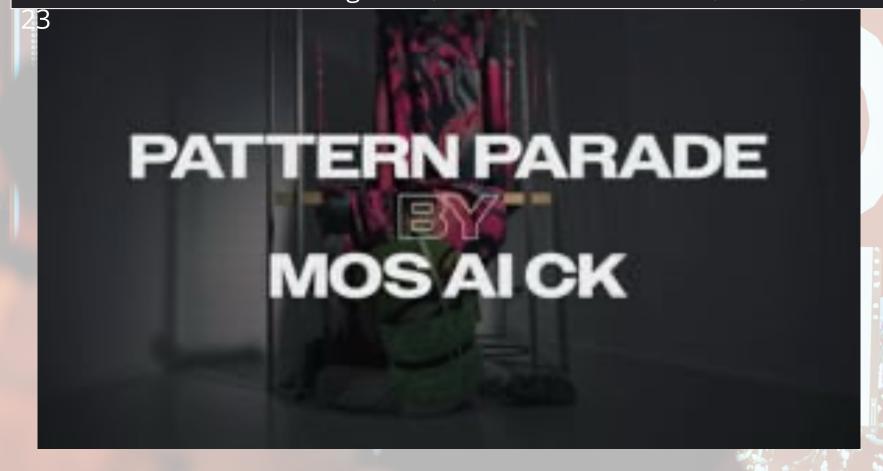
# Why small data approaches?

- Dataset understood as the primary mechanism by which a human creator specifies the content a machine should generate
- Adds layer of understanding the the effects of the model's behaviour
- Trained faster and less computationally expensive

# Reclaiming Power<sup>2</sup>

- Allows artists to bypass large corporations
- Diversion from norms that perpetuates specific cultural paradigms
- Allow for artistic progress, without reliance on current resource intensive AI practices

Patterns in Between Intelligences, Transmediale Studios, Berlin, Mar



## Integrating Small Data AI in Teaching/Research



### Pedagogy

In my lectures and workshops, I have begun integrating this practice, through discussing theories and hands on exercises training interactive ML models



### PhD Research

In my research, I created a collaborative agent in live coding, which uses this small data approach. The work has been disseminated at various conferences, which has given me the chance to gain insights into integrating



#### **Related Publications**

Wilson, E., Fazekas, G., Wiggins, G. On the Integration of Machine Agents into Live Coding.

Wilson, E., Deva, S., Mika, S., Alex, M. and Juan Felipe, A.G., 2023. MosAlck: Staging Contemporary Al Performance-Connecting Live Coding, E-Textiles and Movement.

Wilson, E., Lawson, S., McLean, A., and Steward, J., 2021. Autonomous Creation of Musical Pattern from Types and Models in Live Coding







## References

- 1) TECKS, A., PESCHLOW, T. and VIGLIENSONI, G., 2024. Explainability Paths for Sustained Artistic Practice with Al.
- 2) Vigliensoni, G., Perry, P. and Fiebrink, R., 2022. A small-data mindset for generative Al creative work.
- 3) Sawyer, R.K., 2021. The iterative and improvisational nature of the creative process. *Journal of Creativity*, *31*, p.100002.