

rat  
going to just  
y the  
stuff

py X

```
main(text, order=2):  
    ()
```

```
i(words) - order):  
    = tuple(words[i:i + order])  
    words[i + order]
```

```
ate in chain:  
    current_state.append(next_word)
```

```
current_state] = [next_word]
```

```
main, starting_state, length, switch_frequency=10)  
starting_state  
starting_state)
```

```
21  
22     word_count = len(starting_state)
```

```
23     while word_count < length:
```

```
24         if current_state in chain:
```

```
25             next_word = random.choice(chain[current_state])
```

01101010

01101001

01101101

01110010

01100001

01110100

01101010

01101001

**Verse 1:**

**D7**

**take me, take me, take me,**

**G**

**let me, let me**

**Csus4**

**Aaug**

**does it**

**Cm**

**make going me**

**Asus4**

**you see pen**

**F**

**and the**

**Emaj7**

**place i**

**D7**

**my enough anything; more sixty will**

**G**

**a fucker. random a all i missile enough not to be superstitious, but i all taller it's in**

**Csus4**

**tomorrow,**

**Aaug**

**i'm will my curse i i only count the steps to**

**Cm**

**her**

**Asus4**

**place though a &**

**F**

**you to press me down**

**Emaj7**

**take me like i'm gone tomorrow,**

**D7**

**i'm**

**G**

**dizzy all**

**Csus4**

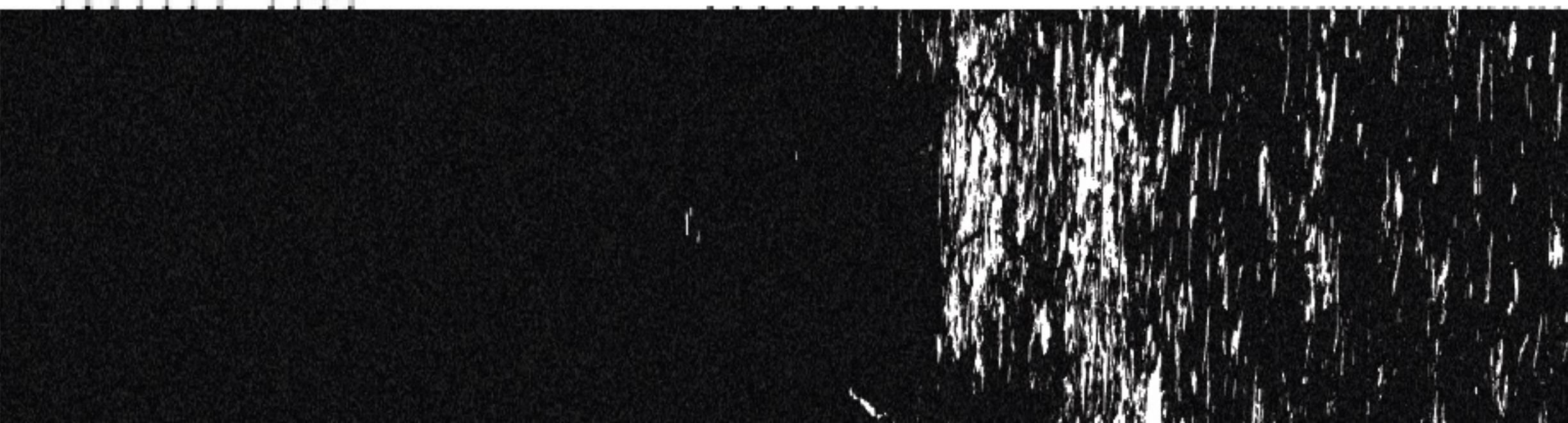
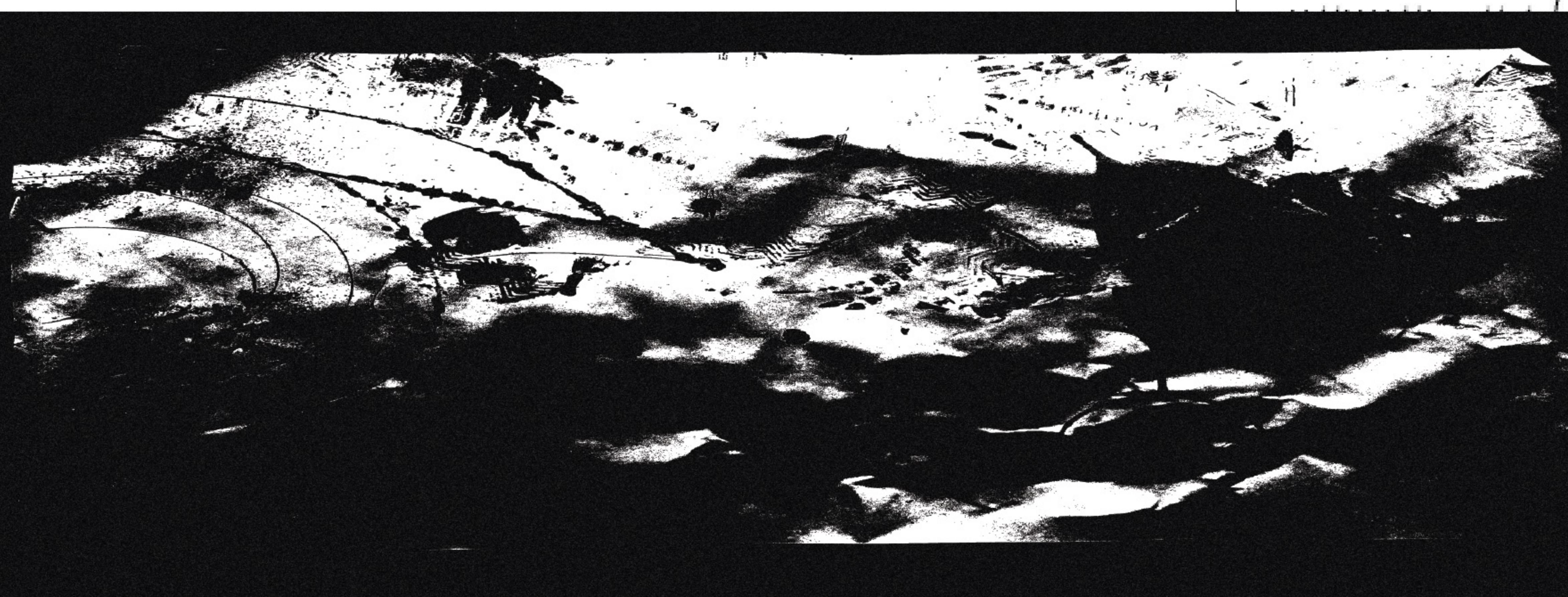
**might and join of whole government your to the entire arsenal of**

**Aaug**

**the tomorrow,**

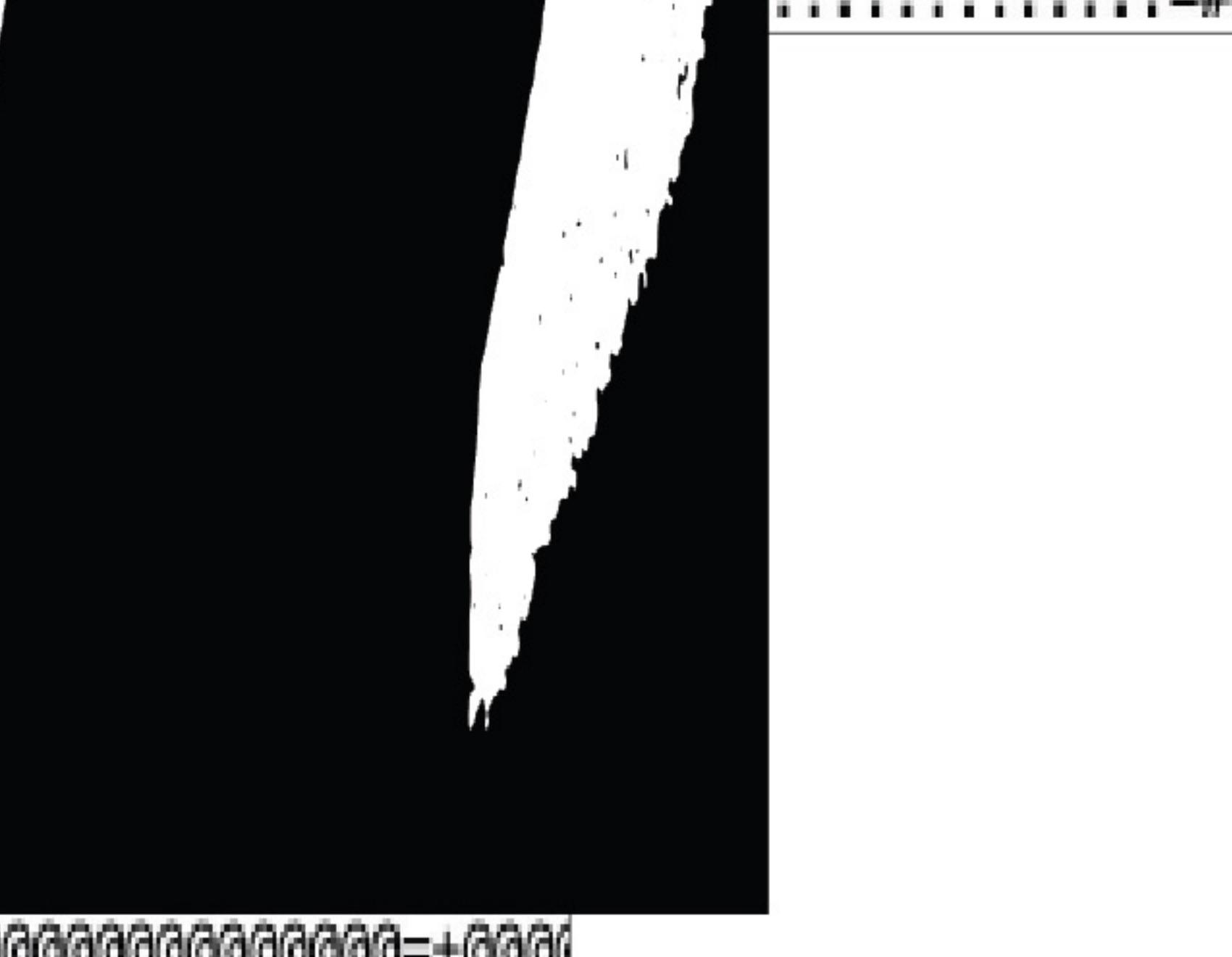
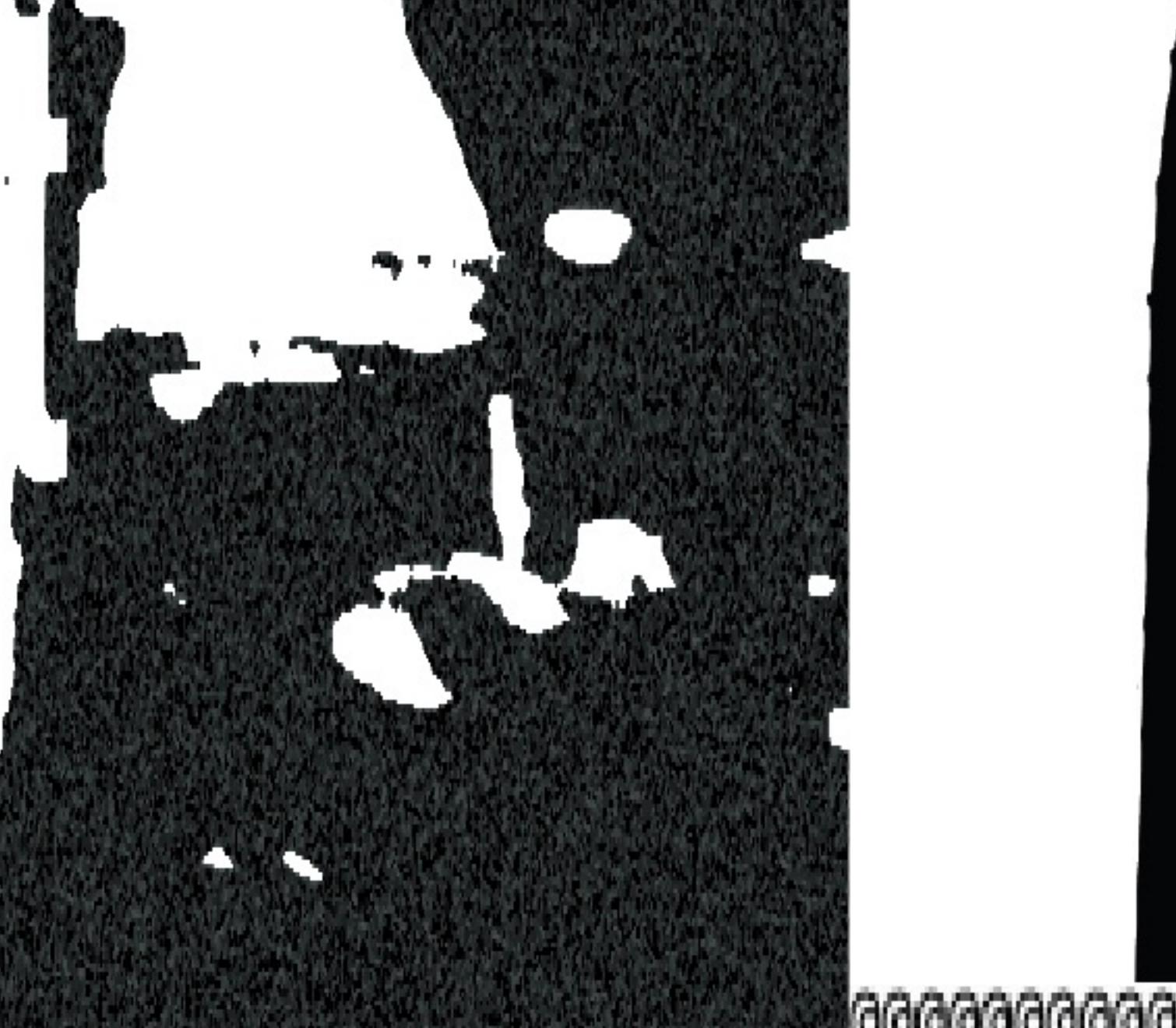
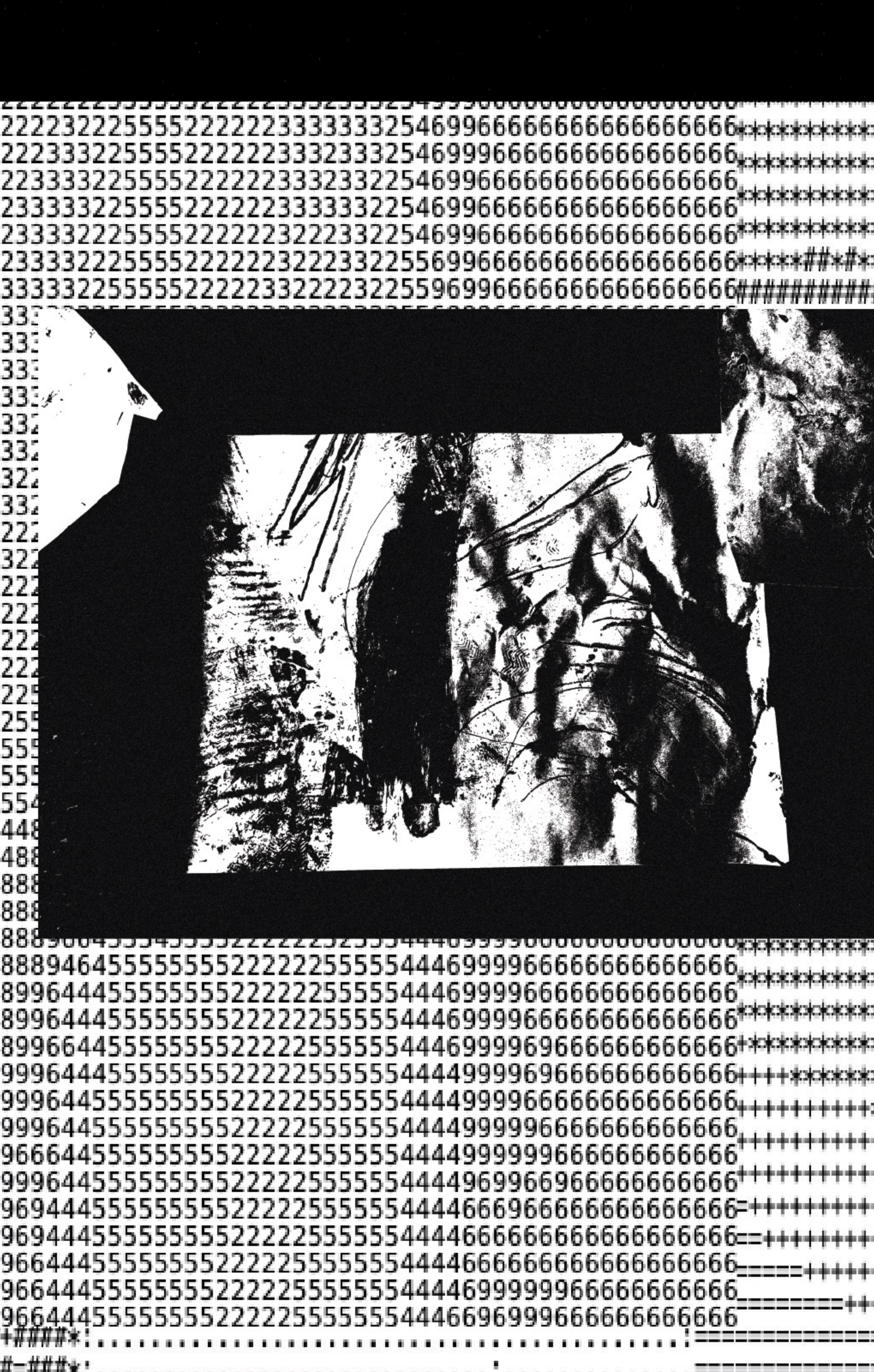
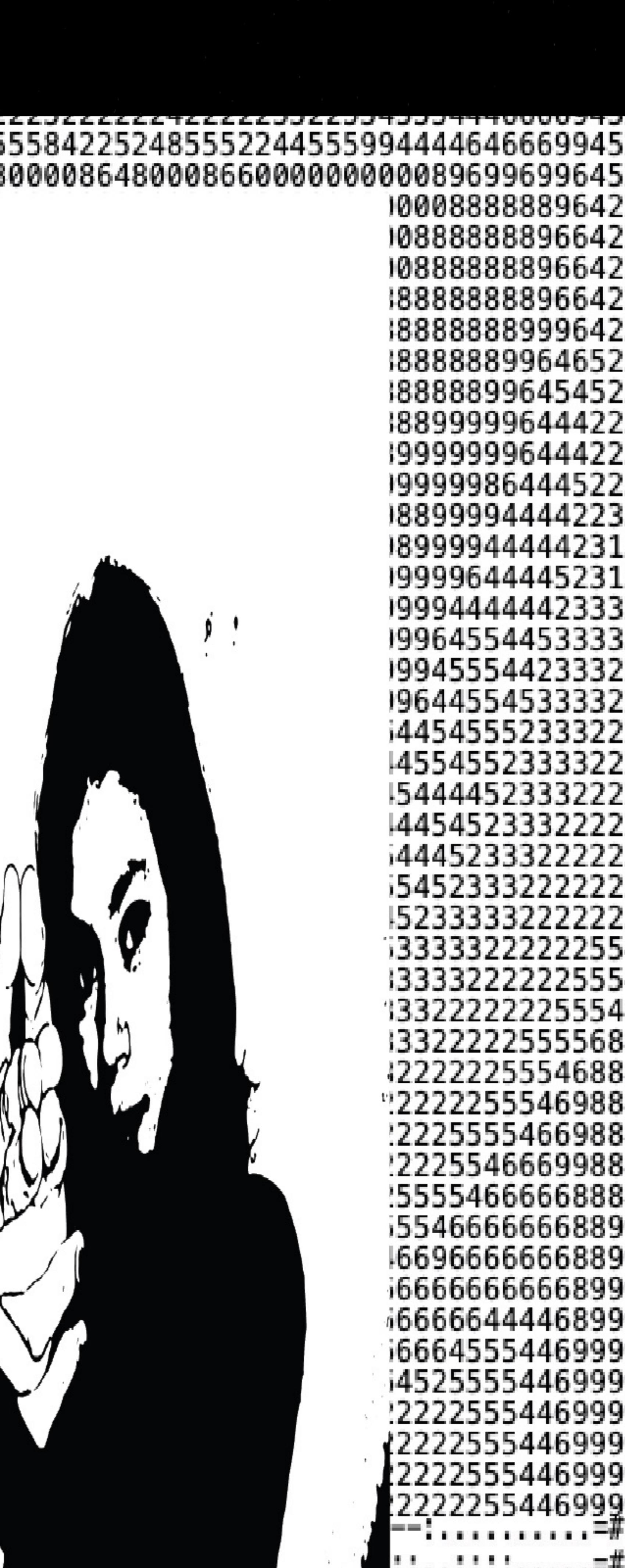
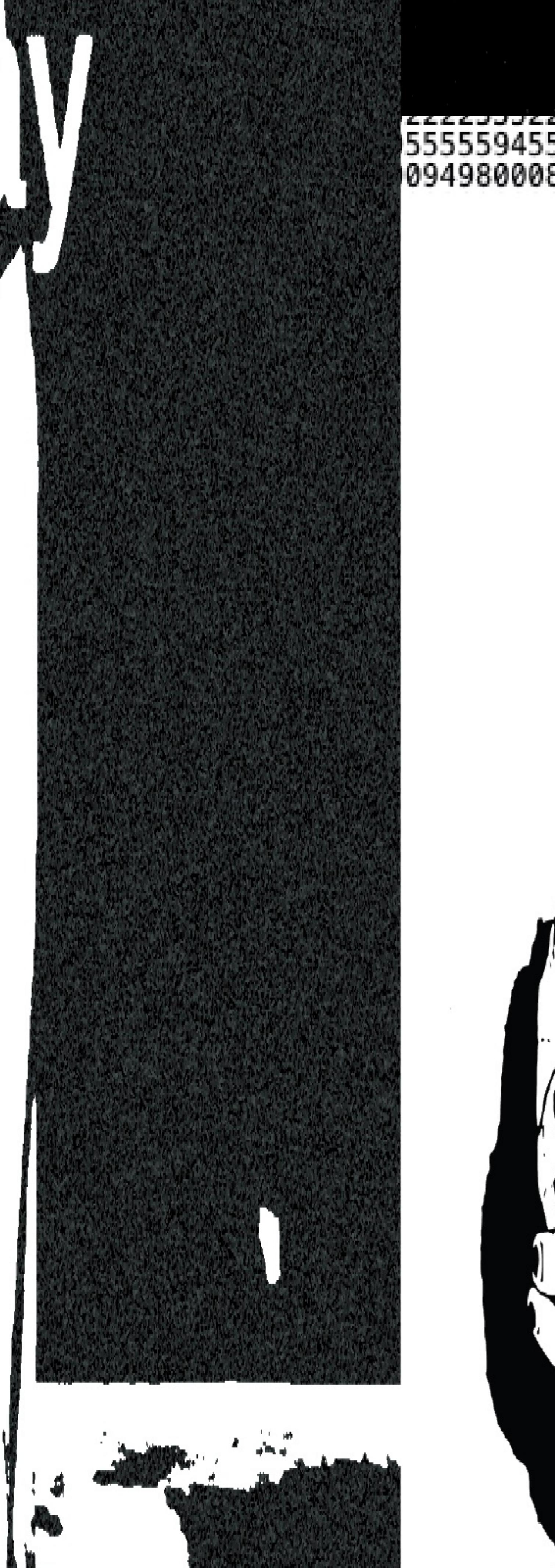
**Cm**

**i'm of mind we and not to be unnatural. he became**





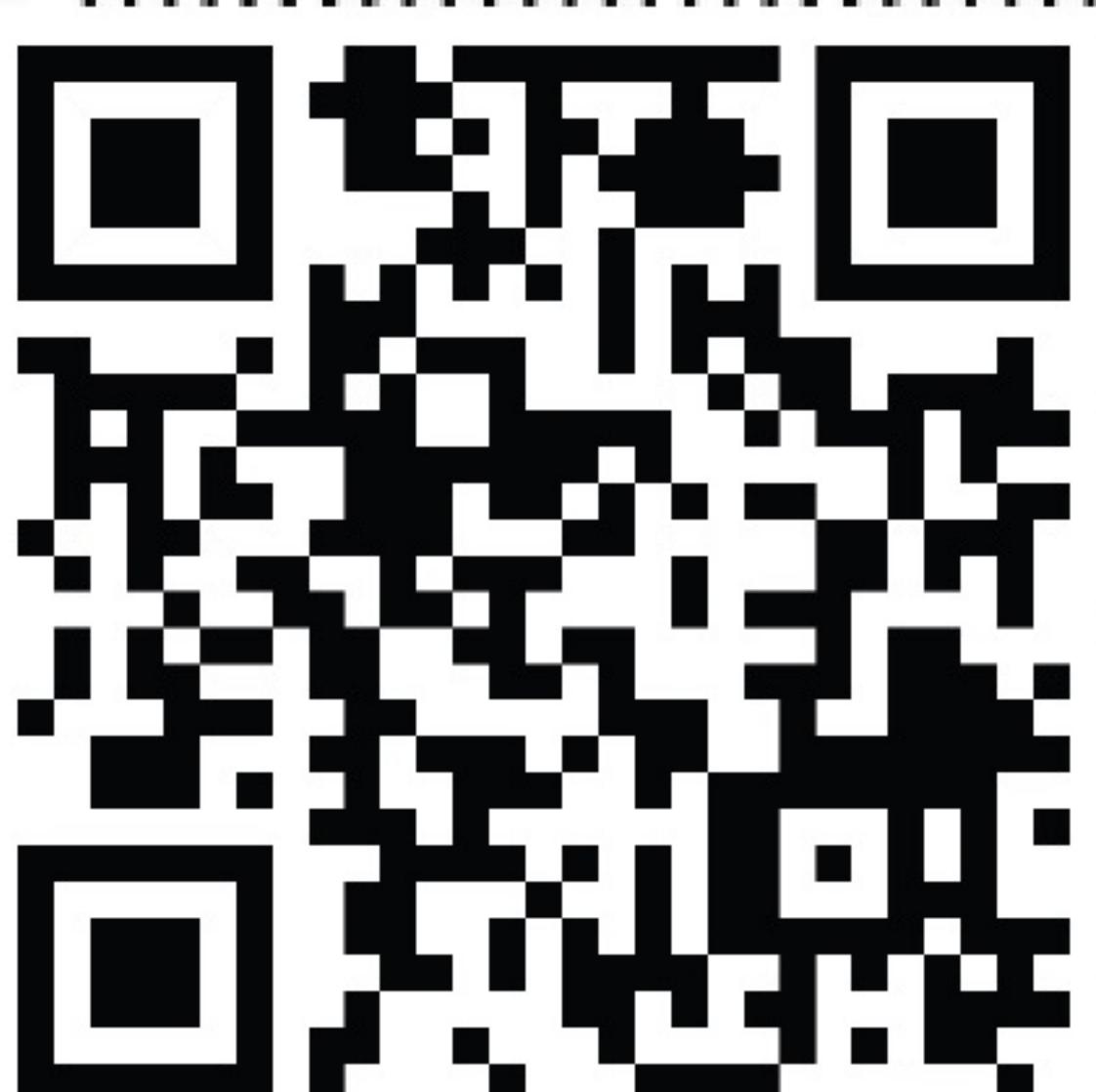
```
114     |     song_lyrics = file.read()
115     |     song_lyrics = lyrics_text.strip().lower()
116
117     # Generate Markov chain
118     chain = generate_markov_chain(song_lyrics, order=2)
119     starting_states = [random.choice(list(chain.keys())) for _ in range(num_verses + num_choruses)]
120
121     # Generate song structure
122     song_structure = generate_song_structure(num_verses, num_choruses, chain, starting_states)
123     return song_structure
124
125
```



```
26     lyrics.append(next_word)
27     current_state = tuple(lyrics[-len(starting_state):])
28     word_count += 1
29
30     # Insert indentation randomly every 9-15 words
31     if word_count % random.randint(9, 15) == 0:
32         # Check if the last character before the newline is a space
33         if lyrics[-1] == ' ':
```

```
# Insert indentation randomly every 9-15 words
if word_count % random.randint(9, 15) == 0:
    # Check if the last character before the newline is a space
    if lyrics[-1] == ' ':
```

```
43
44     if lyrics[0] == ' ':
45         del lyrics[0]
46
47     return " ".join(lyrics[:length])
48
```



**Chorus 1:**  
**Cdim**  
**too hot the eye of heaven shines,**  
**Dsus4**  
**and often is his gold**  
**Em**  
**complexion living**  
**Adim**  
**anybody servant the tongue. this 30 where see roll**

```
lyrics.append(next_word)
current_state = tuple(lyrics[-len(starting_state):])
word_count += 1
```

```
# Insert indentation randomly every 9-15 words
if word_count % random.randint(9, 15) == 0:
    # Check if the last character before the newline is a space
    if lyrics[-1] == ' ':
```

01101101  
01110010  
01100001

01101101  
01110010  
01100001

01101101  
01110010  
01100001

01101101  
01110010  
01100001

01101101  
01110010  
01100001

01101101  
01110010  
01100001



don't know me or  
hard go

ntly pleasure

(yeah)

son point the did gear

i was inwardly conscious with shame for months after. this in arsenal eyes the

```
109
110     def generate_song(num_verse, num_chorus, lyrics_text):
111         # Preprocess the lyrics
112         with open('lyrics.txt', 'r') as file:
113             # Read the lyrics from the file
```