

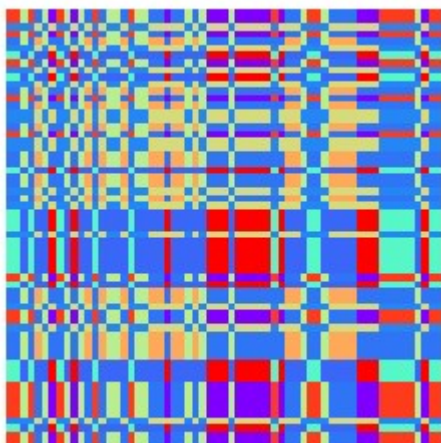
In [3]:

In [3]:

In [4]: from pyts.visualization import plot\_mtf

```
...:
...:
...: print("Markovian Transition Field-- Images")
...:
print("-----")
...: for i in range (0,80):
...:     plot_mtf(X_standardized[i], image_size=61, n_bins=4,
quantiles='empirical', overlapping=False)
...:     print(i)
...:     print(train['RunName'][i])
...:     print("Drowsy",train['drowsy'][i])
...:     print("-----")
```

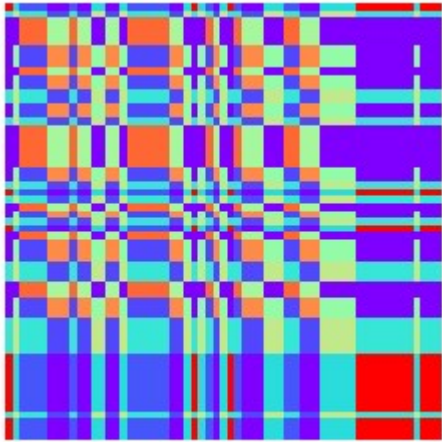
Markovian Transition Field-- Images



0

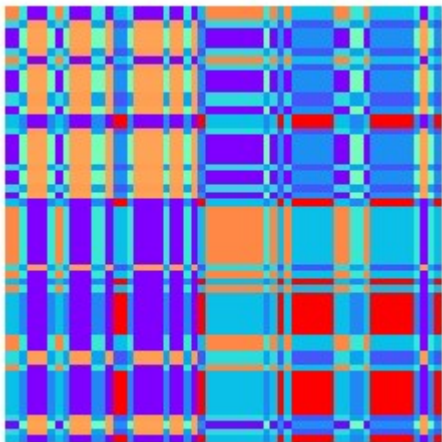
A\_M1001YM01\_3S3RNA

Drowsy True



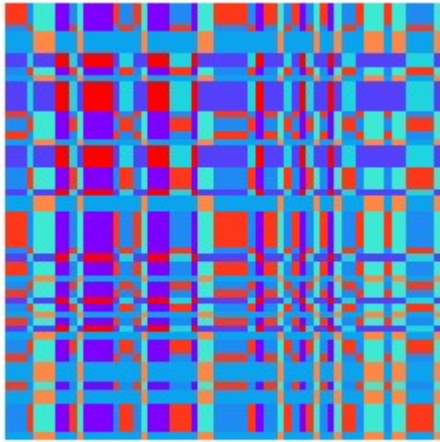
1  
A\_M1004YM02\_3S1RNA  
Drowsy True

-----



2  
A\_M1005YM03\_1S3RNA  
Drowsy True

-----

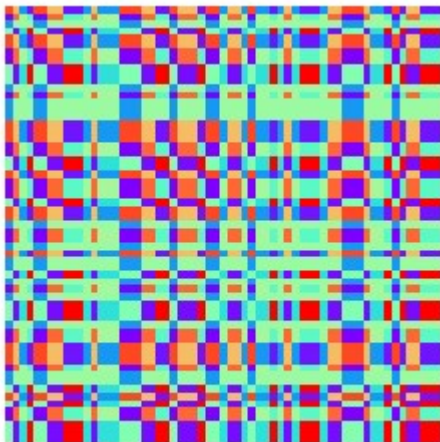


3

A\_M1005YM03\_3S1RNA

Drowsy True

-----

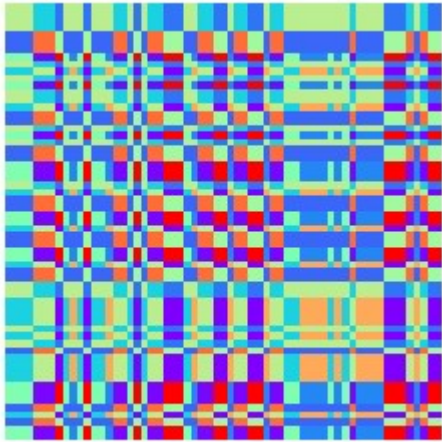


4

A\_M1005YM03\_3S1RNA

Drowsy True

-----

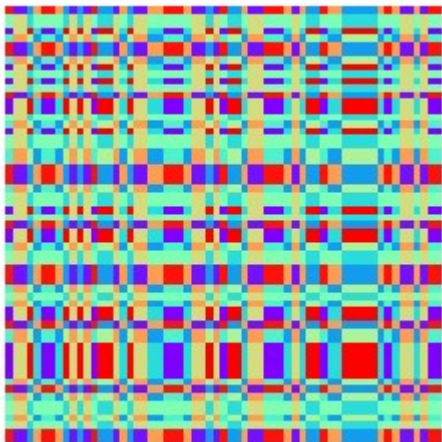


5

A\_M1005YM03\_3S1RNA

Drowsy True

-----

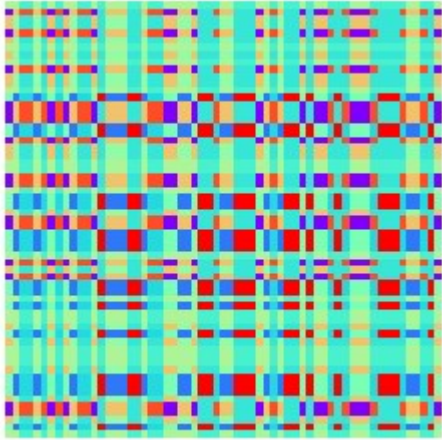


6

A\_M1005YM03\_3S1RNA

Drowsy True

-----

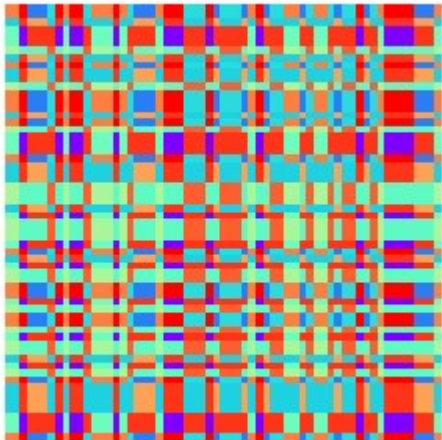


7

A\_M1019YF04\_1S1RNA

Drowsy True

---

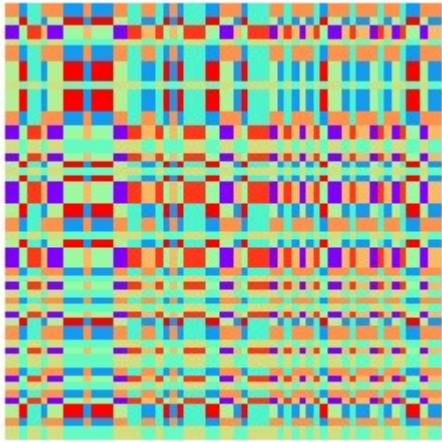


8

A\_M1019YF04\_2S2RNA

Drowsy True

---

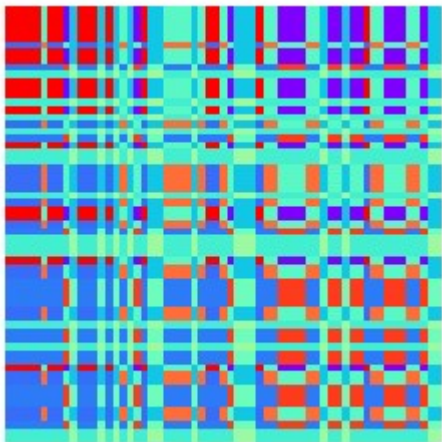


9

A\_M1019YF04\_2S2RNA

Drowsy True

---



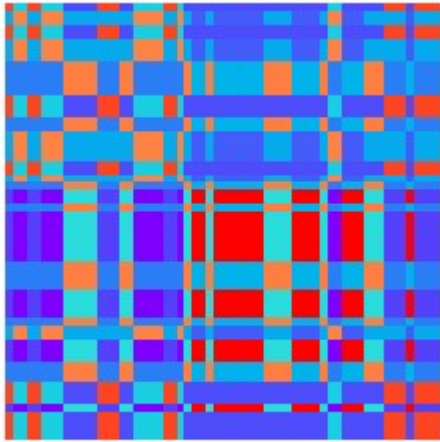
10

A\_M1021YF05\_2S3RNA

Drowsy True

---



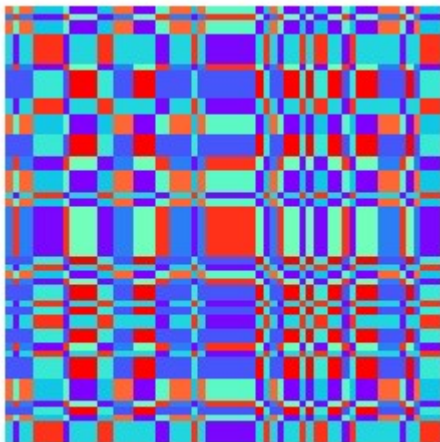


11

A\_M1021YF05\_2S3RNA

Drowsy True

-----

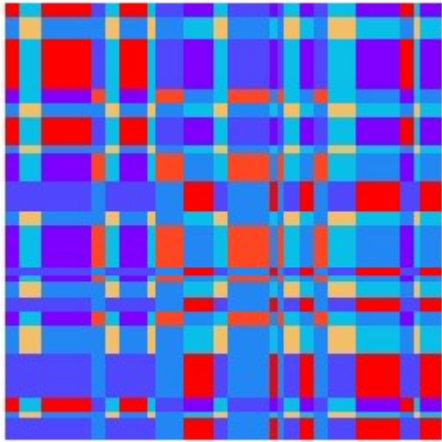


12

A\_M1021YF05\_2S3RNA

Drowsy True

-----

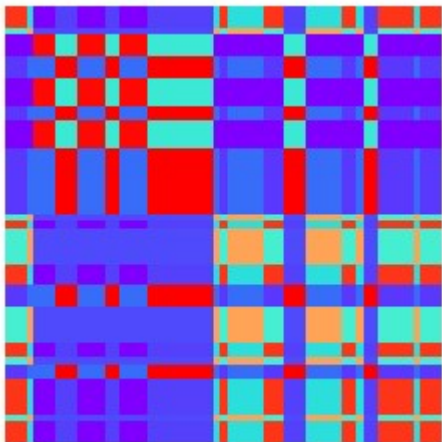


13

A\_M1021YF05\_2S3RNA

Drowsy True

-----



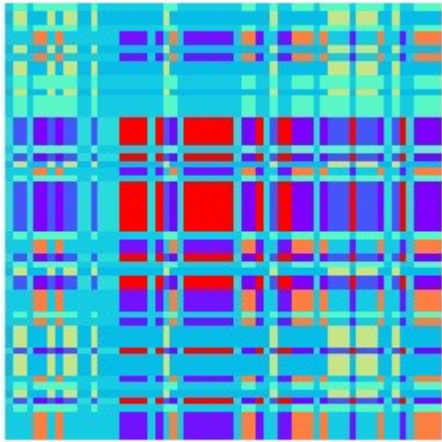
14

A\_M1021YF05\_3S1RNA

Drowsy True

-----



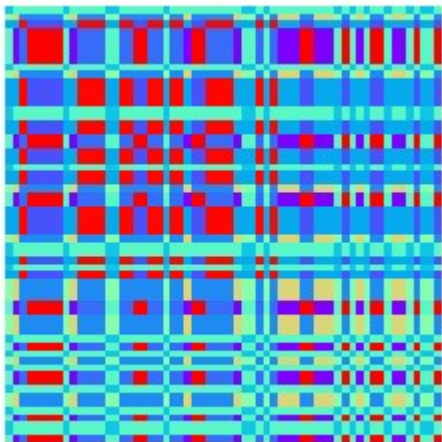


15

A\_M1026MM01\_3S3RNA

Drowsy True

-----

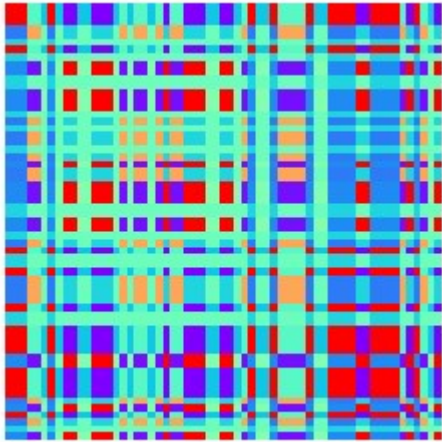


16

A\_M1026MM01\_3S3RNA

Drowsy True

-----

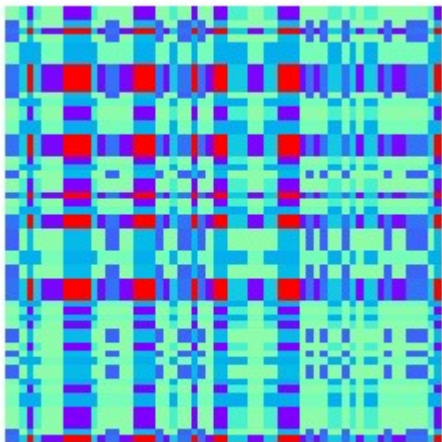


17

A\_M1026MM01\_3S3RNA

Drowsy True

-----

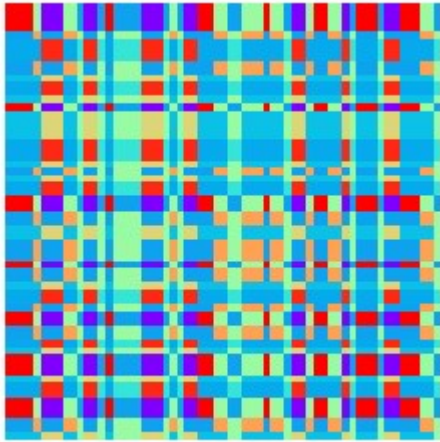


18

A\_M1026MM01\_3S3RNA

Drowsy True

-----

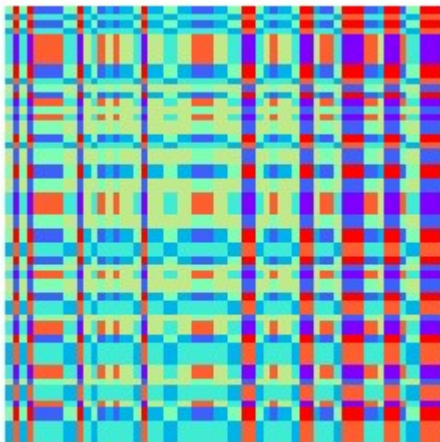


19

A\_M1030MM03\_3S1RNA

Drowsy True

-----

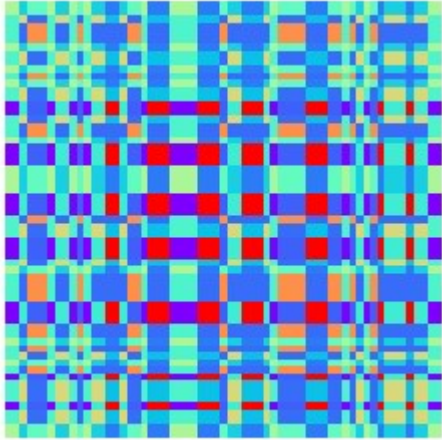


20

A\_M1030MM03\_3S1RNA

Drowsy True

-----

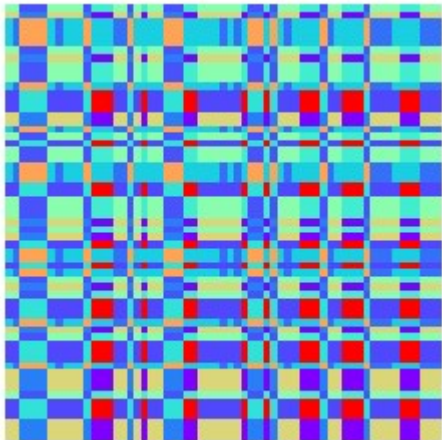


21

A\_M1030MM03\_3S1RNA

Drowsy True

-----

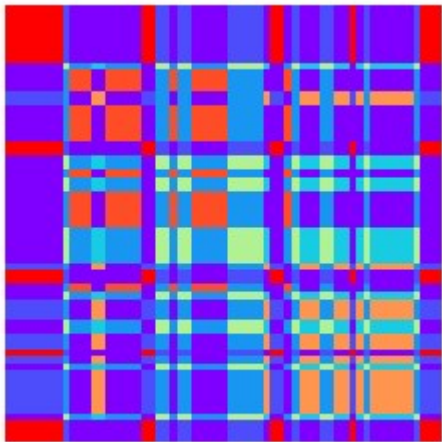


22

A\_M1030MM03\_3S1RNA

Drowsy True

-----

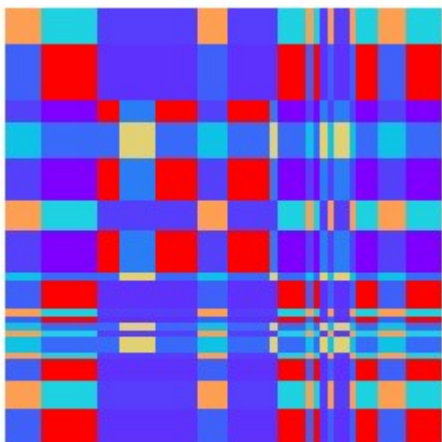


23

A\_M1031MM04\_2S2RNA

Drowsy True

-----

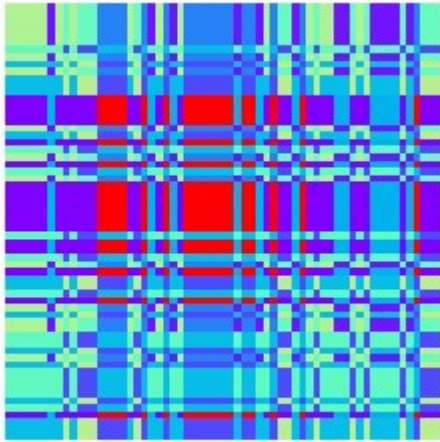


24

A\_M1038MF01\_1S1RNA

Drowsy True

-----

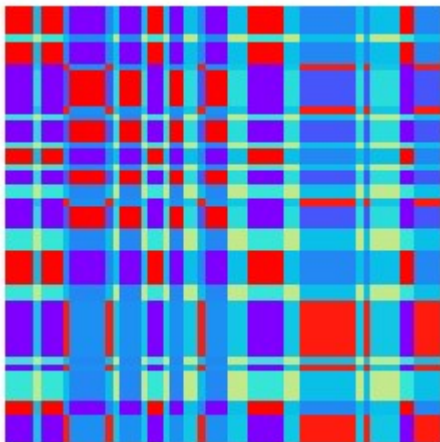


25

A\_M1038MF01\_1S1RNA

Drowsy True

---



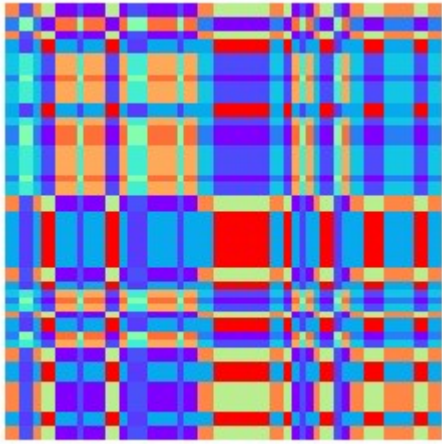
26

A\_M1038MF01\_1S1RNA

Drowsy True

---



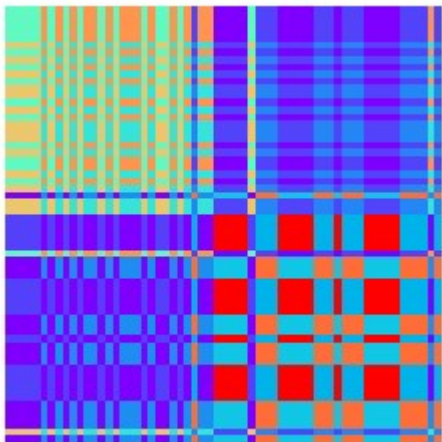


27

A\_M1038MF01\_2S2RNA

Drowsy True

-----

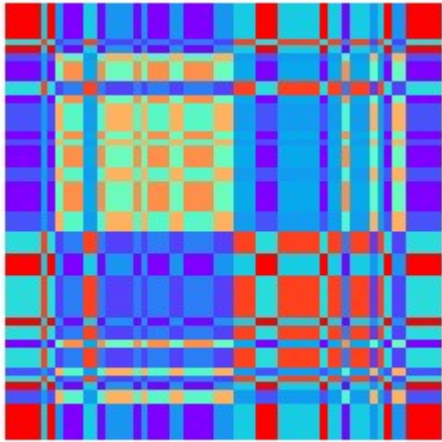


28

A\_M1038MF01\_2S2RNA

Drowsy True

-----

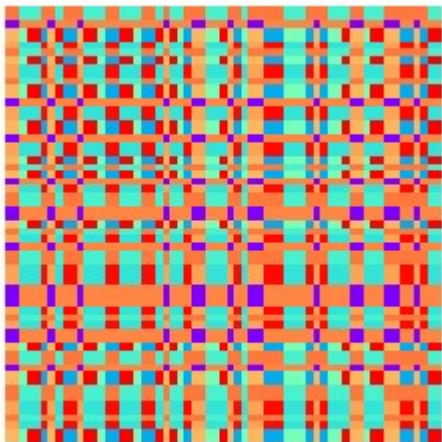


29

A\_M1038MF01\_2S2RNA

Drowsy True

-----

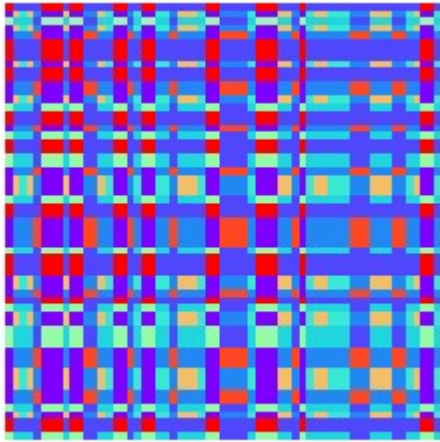


30

A\_M1038MF01\_3S3RNA

Drowsy True

-----

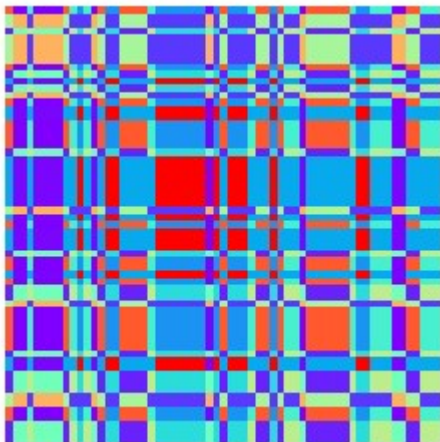


31

A\_M1038MF01\_3S3RNA

Drowsy True

-----

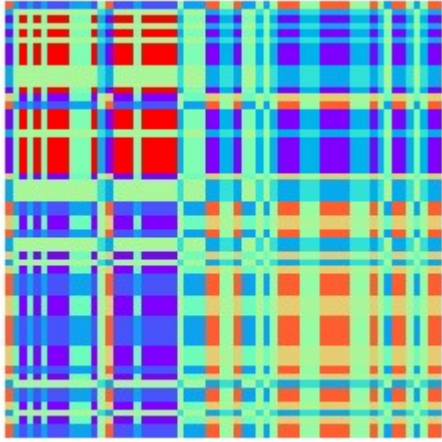


32

A\_M1038MF01\_3S3RNA

Drowsy True

-----

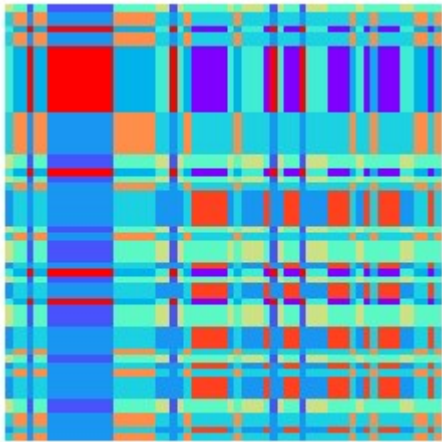


33

A\_M1038MF01\_3S3RNA

Drowsy True

-----

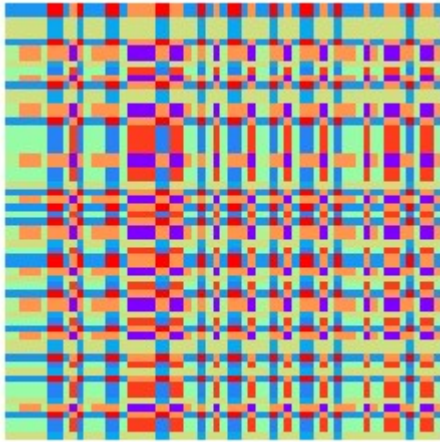


34

A\_M1038MF01\_3S3RNA

Drowsy True

-----

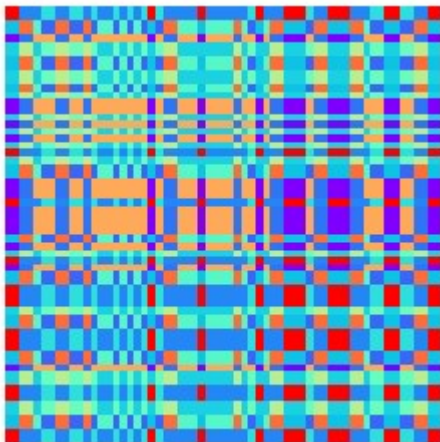


35

A\_M1039MF02\_3S1RNA

Drowsy True

-----

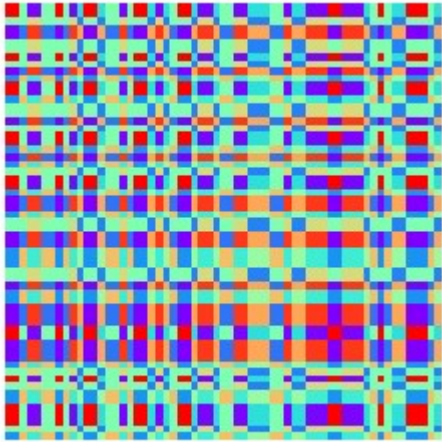


36

A\_M1039MF02\_3S1RNA

Drowsy True

-----

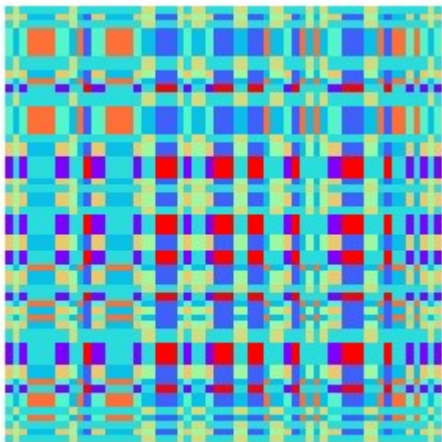


37

A\_M1039MF02\_3S1RNA

Drowsy True

-----



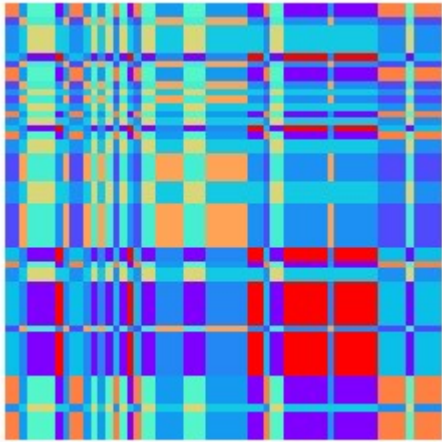
38

A\_M1039MF02\_3S1RNA

Drowsy True

-----



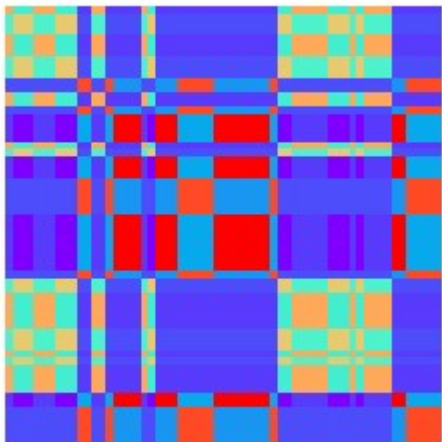


39

A\_M1046MF05\_2S3RNA

Drowsy True

-----

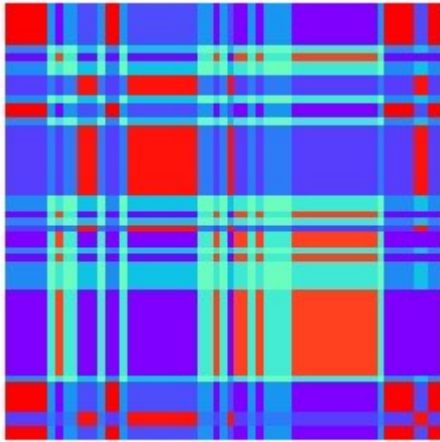


40

A\_M1047MF06\_2S2RNA

Drowsy True

-----

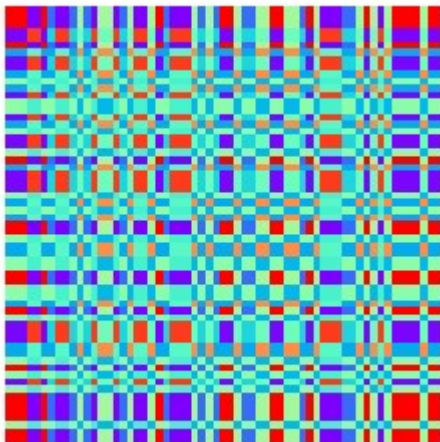


41

A\_M1047MF06\_2S2RNA

Drowsy True

-----

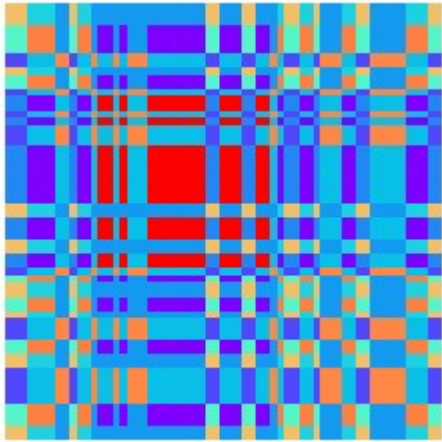


42

A\_M1047MF06\_3S1RNA

Drowsy True

-----

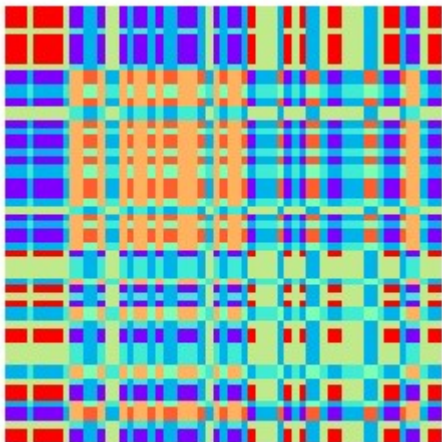


43

A\_M1047MF06\_3S1RNA

Drowsy True

-----

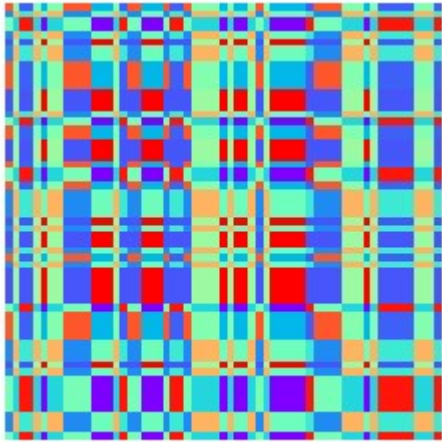


44

A\_M10670F04\_2S2RNA

Drowsy True

-----

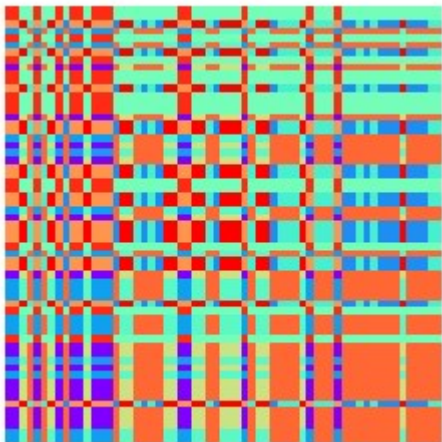


45

A\_M1122YF05\_2S3RNA

Drowsy True

-----

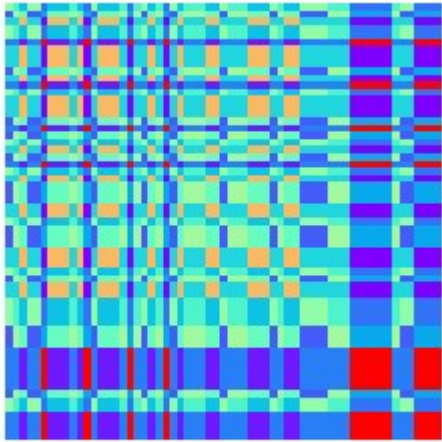


46

A\_M1127MM02\_2S3RNA

Drowsy True

-----

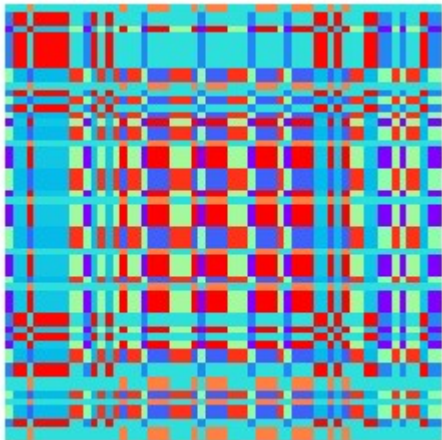


47

A\_M1143MF04\_2S2RNA

Drowsy True

-----

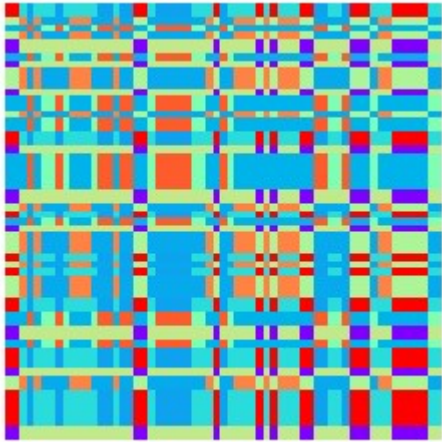


48

A\_M1001YM01\_1S1RNA

Drowsy False

-----

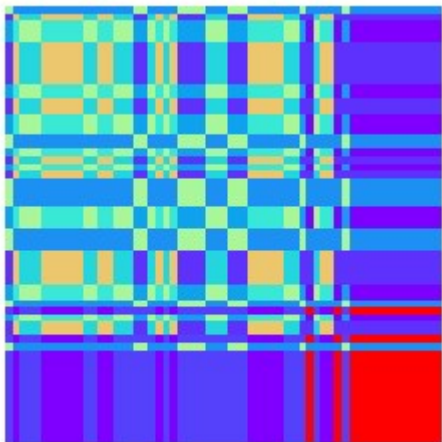


49

A\_M1001YM01\_1S1RNA

Drowsy False

-----



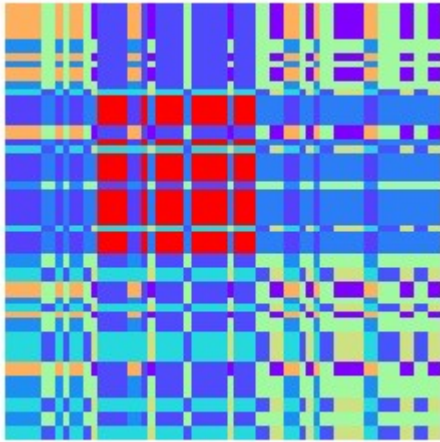
50

A\_M1001YM01\_1S1RNA

Drowsy False

-----



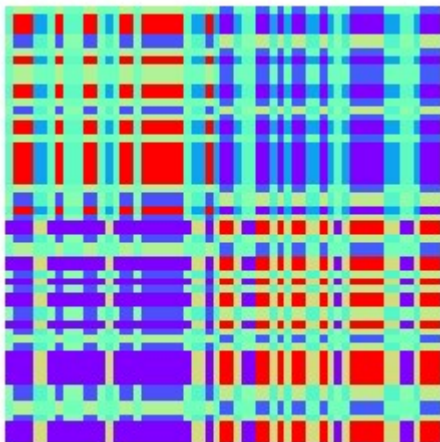


51

A\_M1001YM01\_1S1RNA

Drowsy False

---

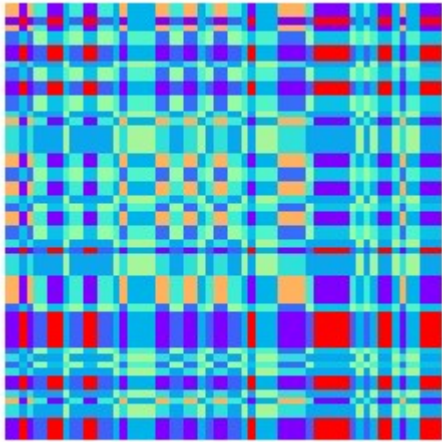


52

A\_M1001YM01\_1S1RNA

Drowsy False

---

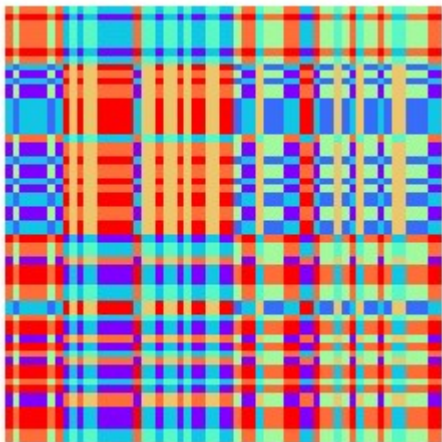


53

A\_M1001YM01\_1S1RNA

Drowsy False

-----

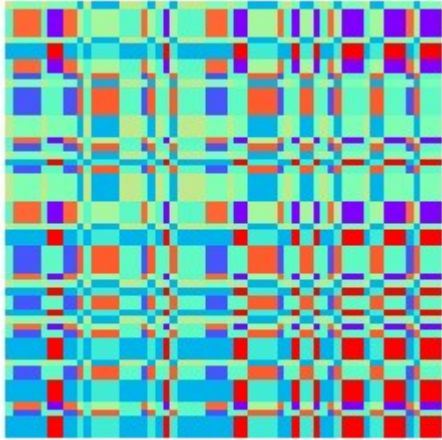


54

A\_M1001YM01\_1S1RNA

Drowsy False

-----

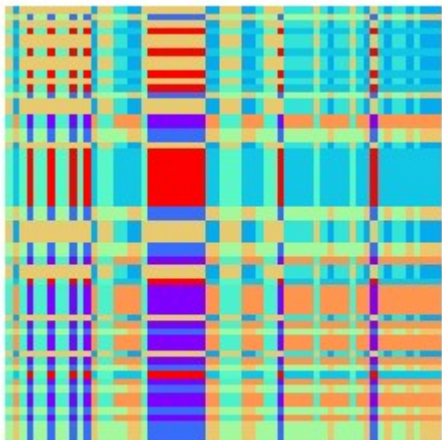


55

A\_M1001YM01\_1S1RNA

Drowsy False

-----

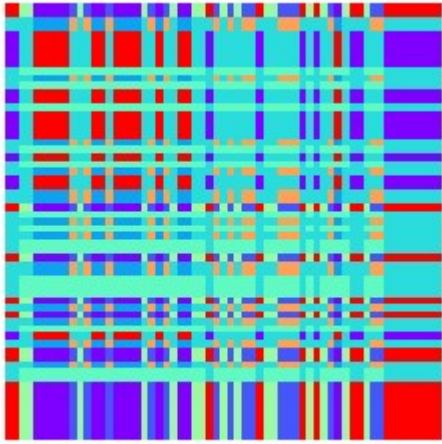


56

A\_M1001YM01\_1S1RNA

Drowsy False

-----

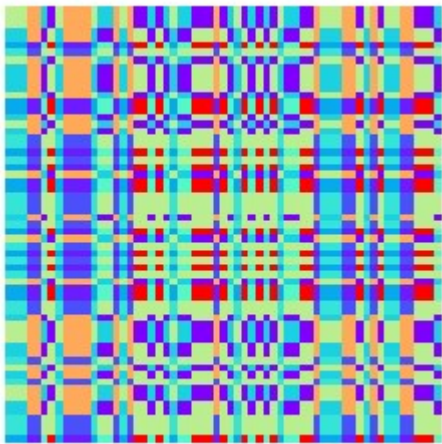


57

A\_M1003YM02\_1S2RNA

Drowsy False

-----

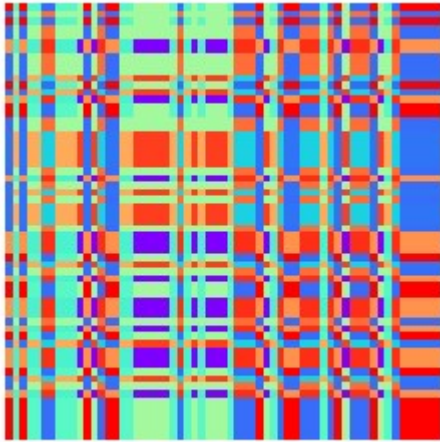


58

A\_M1003YM02\_1S2RNA

Drowsy False

-----

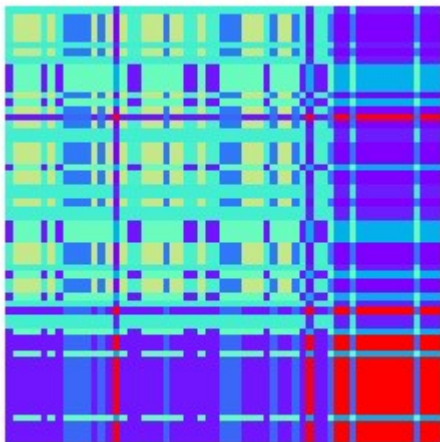


59

A\_M1003YM02\_1S2RNA

Drowsy False

-----

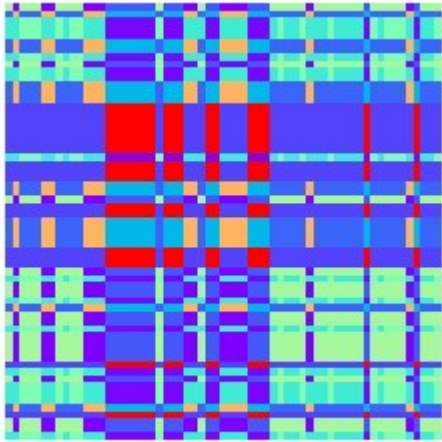


60

A\_M1003YM02\_1S2RNA

Drowsy False

-----

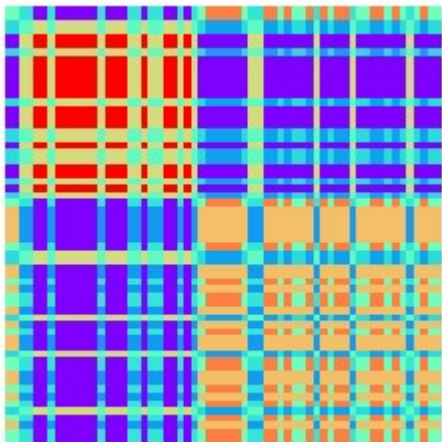


61

A\_M1003YM02\_1S2RNA

Drowsy False

-----



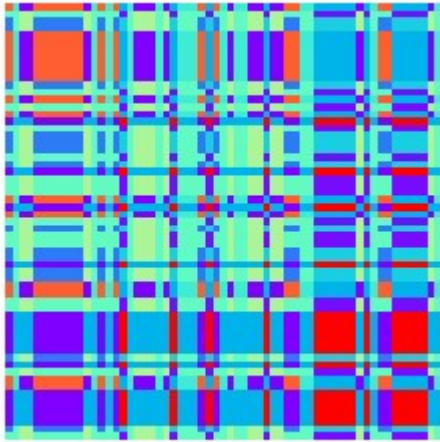
62

A\_M1003YM02\_1S2RNA

Drowsy False

-----



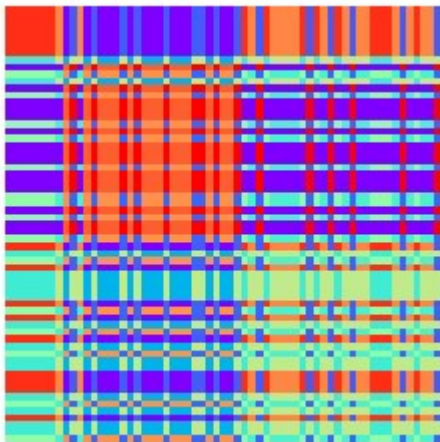


63

A\_M1003YM02\_1S2RNA

Drowsy False

---

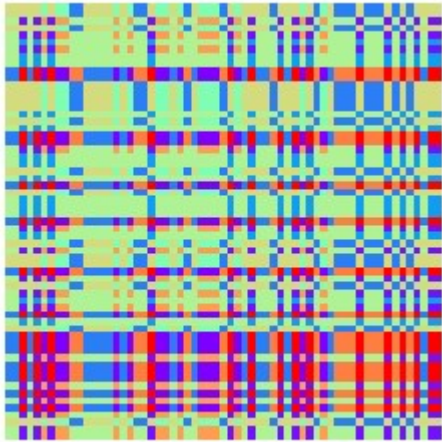


64

A\_M1003YM02\_1S2RNA

Drowsy False

---

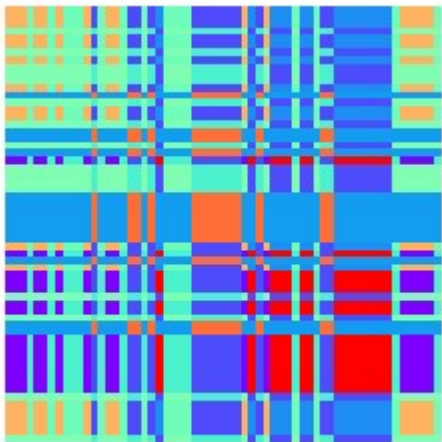


65

A\_M1003YM02\_1S2RNA

Drowsy False

-----

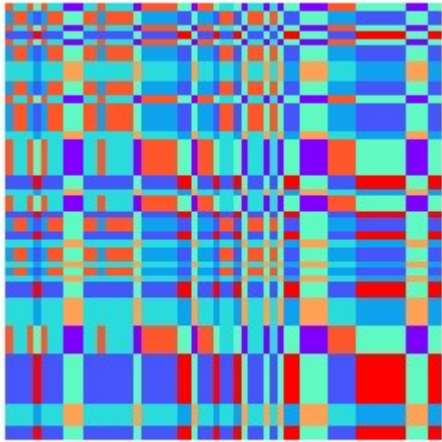


66

A\_M1003YM02\_1S2RNA

Drowsy False

-----

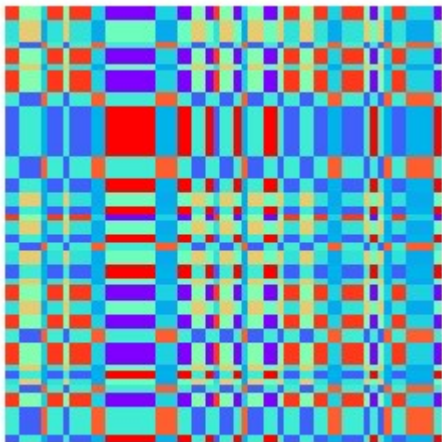


67

A\_M1014YF01\_3S3RNA

Drowsy False

-----

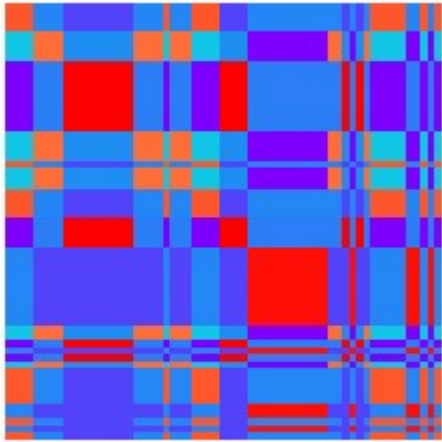


68

A\_M1014YF01\_3S3RNA

Drowsy False

-----

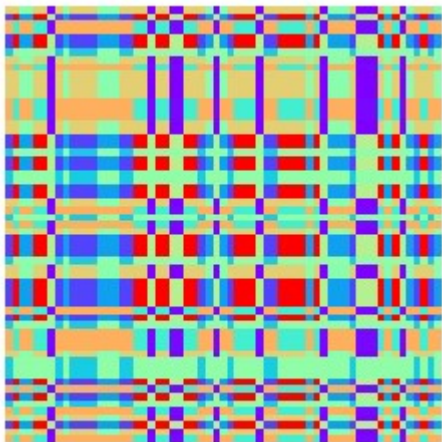


69

A\_M1014YF01\_3S3RNA

Drowsy False

-----

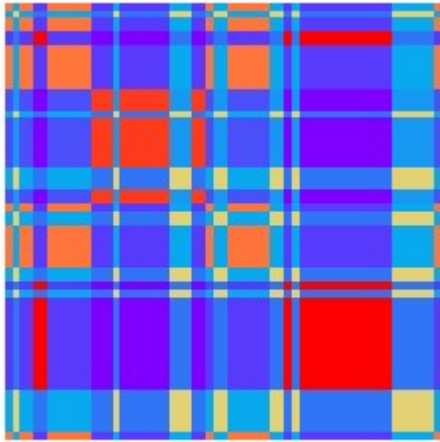


70

A\_M1014YF01\_3S3RNA

Drowsy False

-----

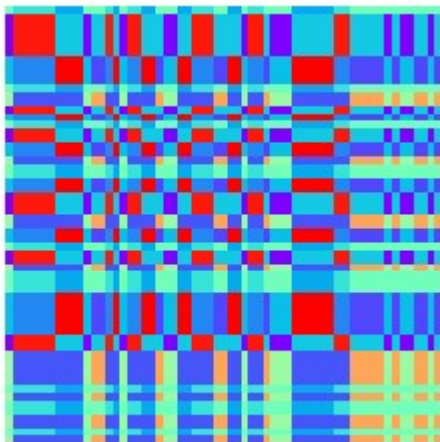


71

A\_M1014YF01\_3S3RNA

Drowsy False

-----

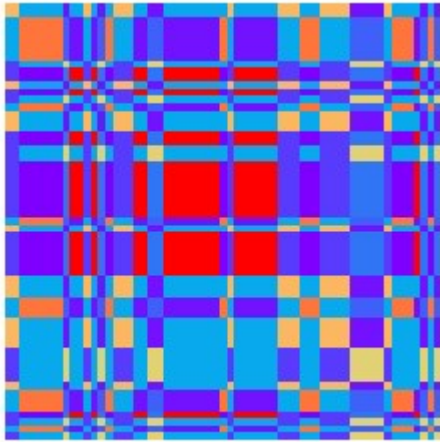


72

A\_M1014YF01\_3S3RNA

Drowsy False

-----

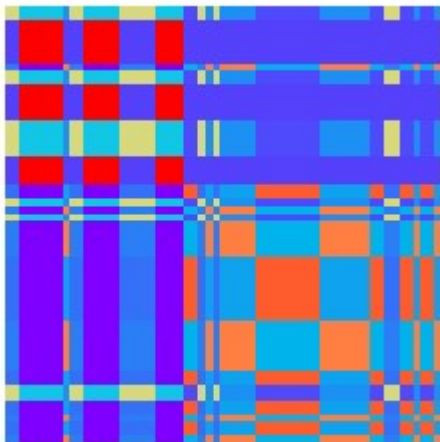


73

A\_M1014YF01\_3S3RNA

Drowsy False

---



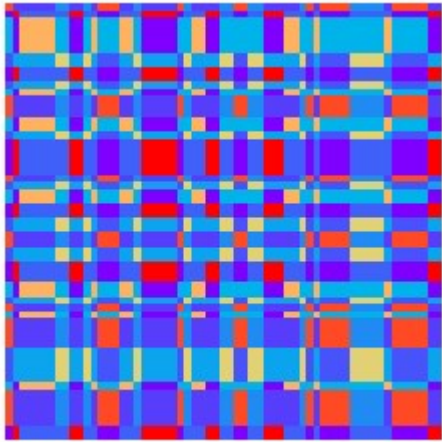
74

A\_M1014YF01\_3S3RNA

Drowsy False

---



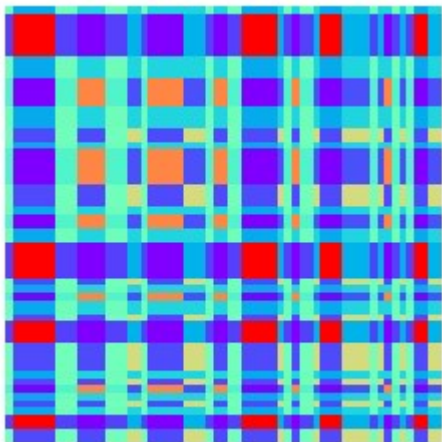


75

A\_M1014YF01\_3S3RNA

Drowsy False

-----

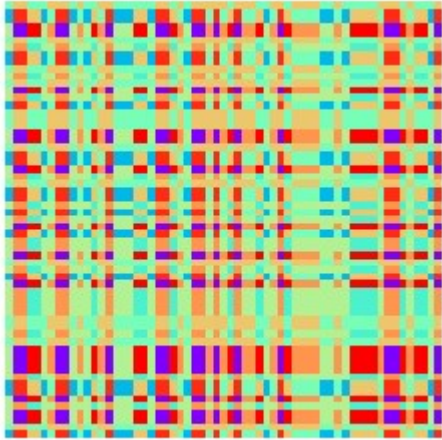


76

A\_M1014YF01\_3S3RNA

Drowsy False

-----

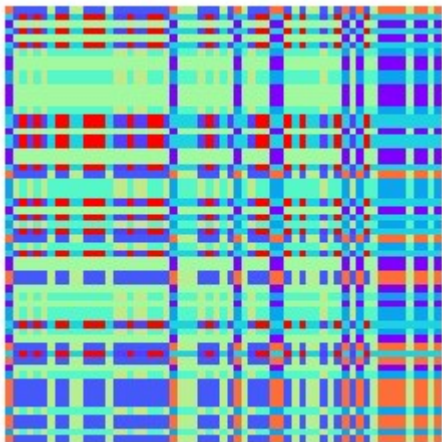


77

A\_M1016YF02\_1S2RNA

Drowsy False

-----

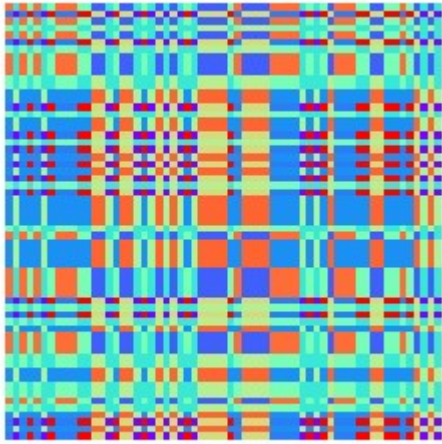


78

A\_M1016YF02\_1S2RNA

Drowsy False

-----



79

A\_M1016YF02\_1S2RNA

Drowsy False

-----

In [5]: