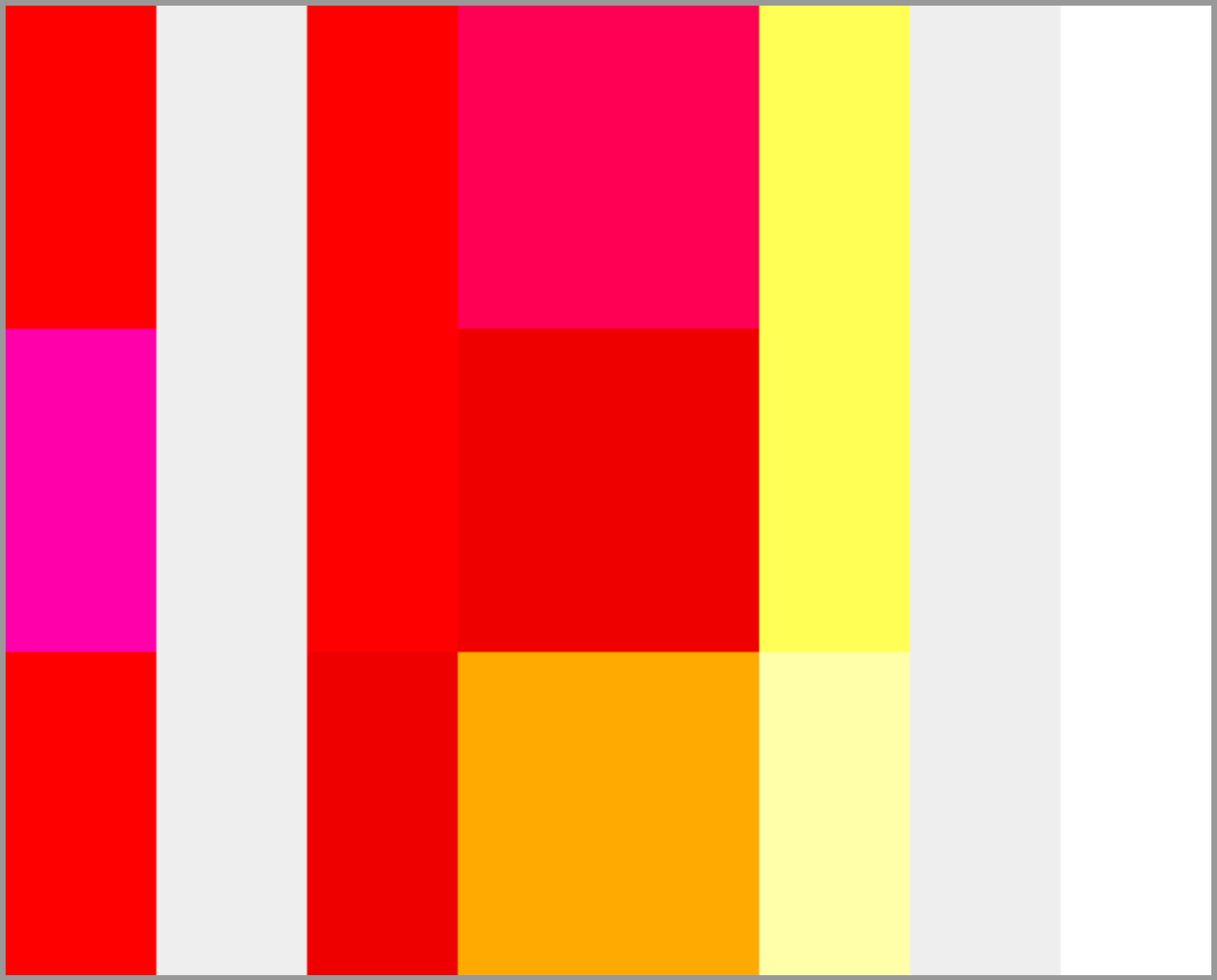
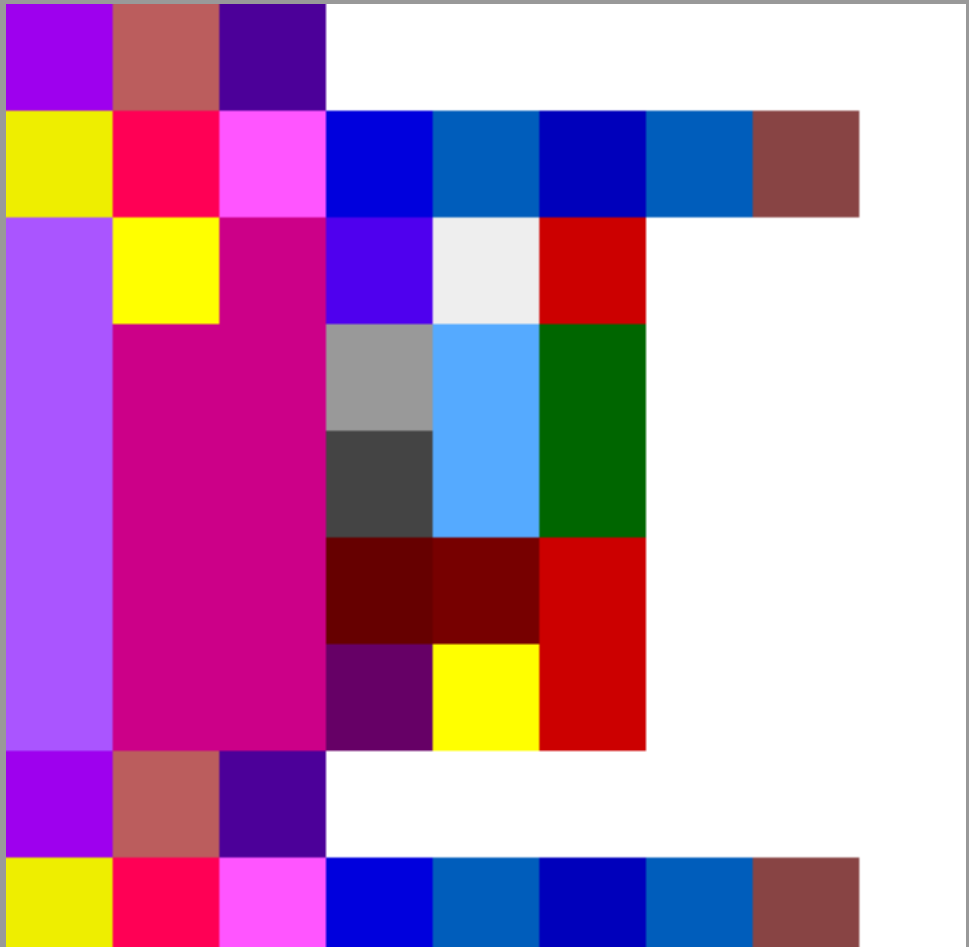
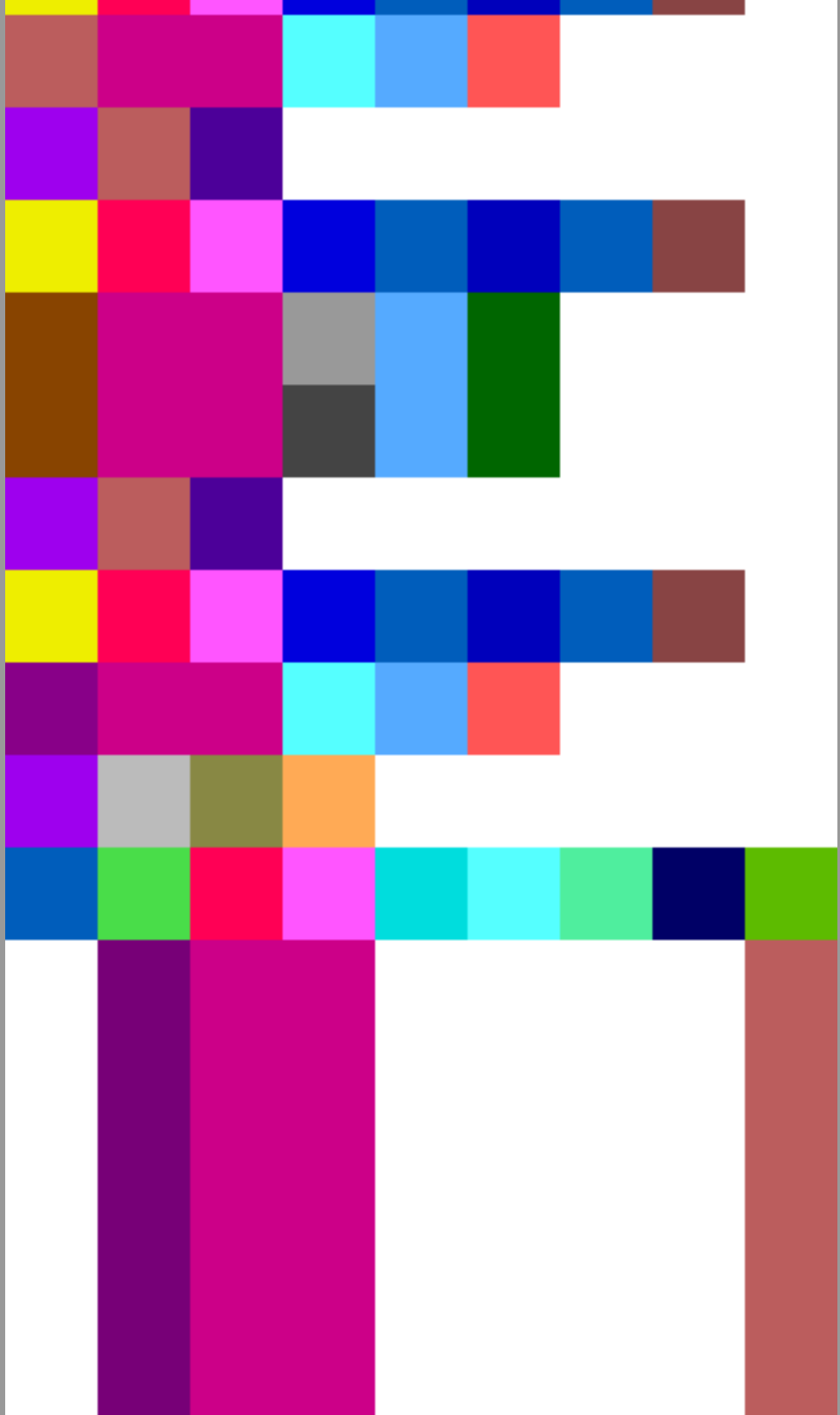
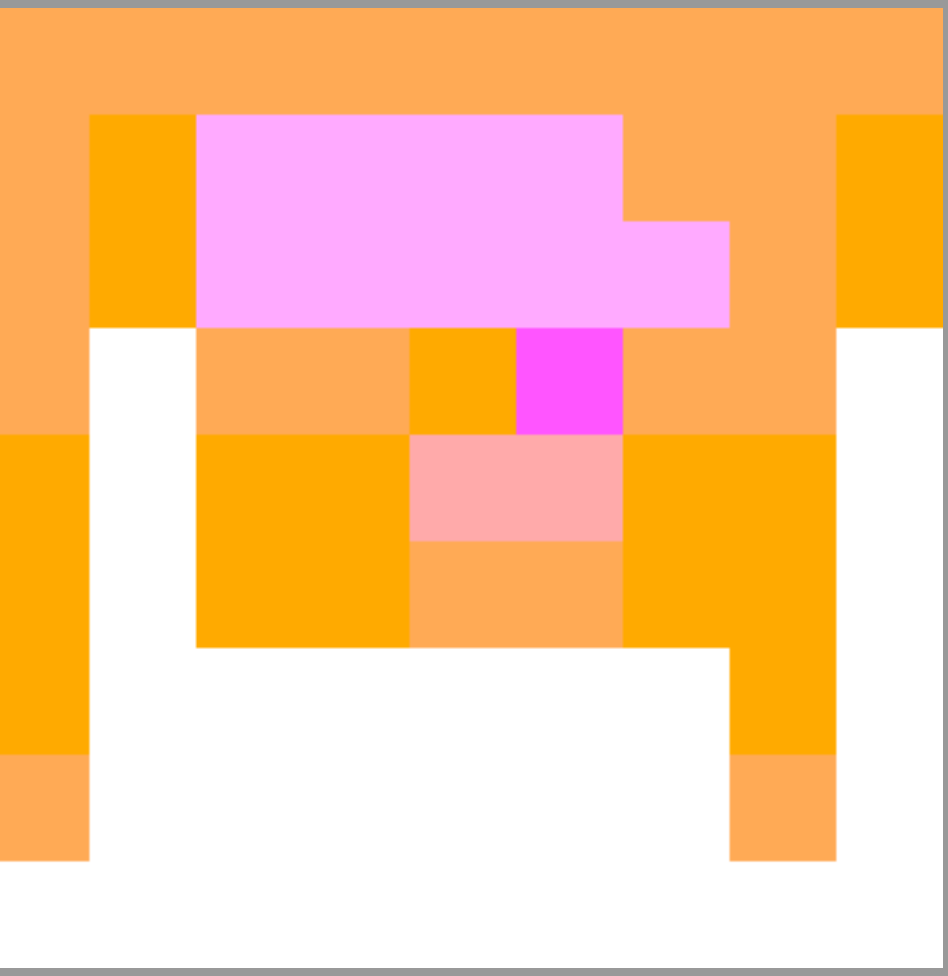
NICHT
OHNE
MEINE
CB

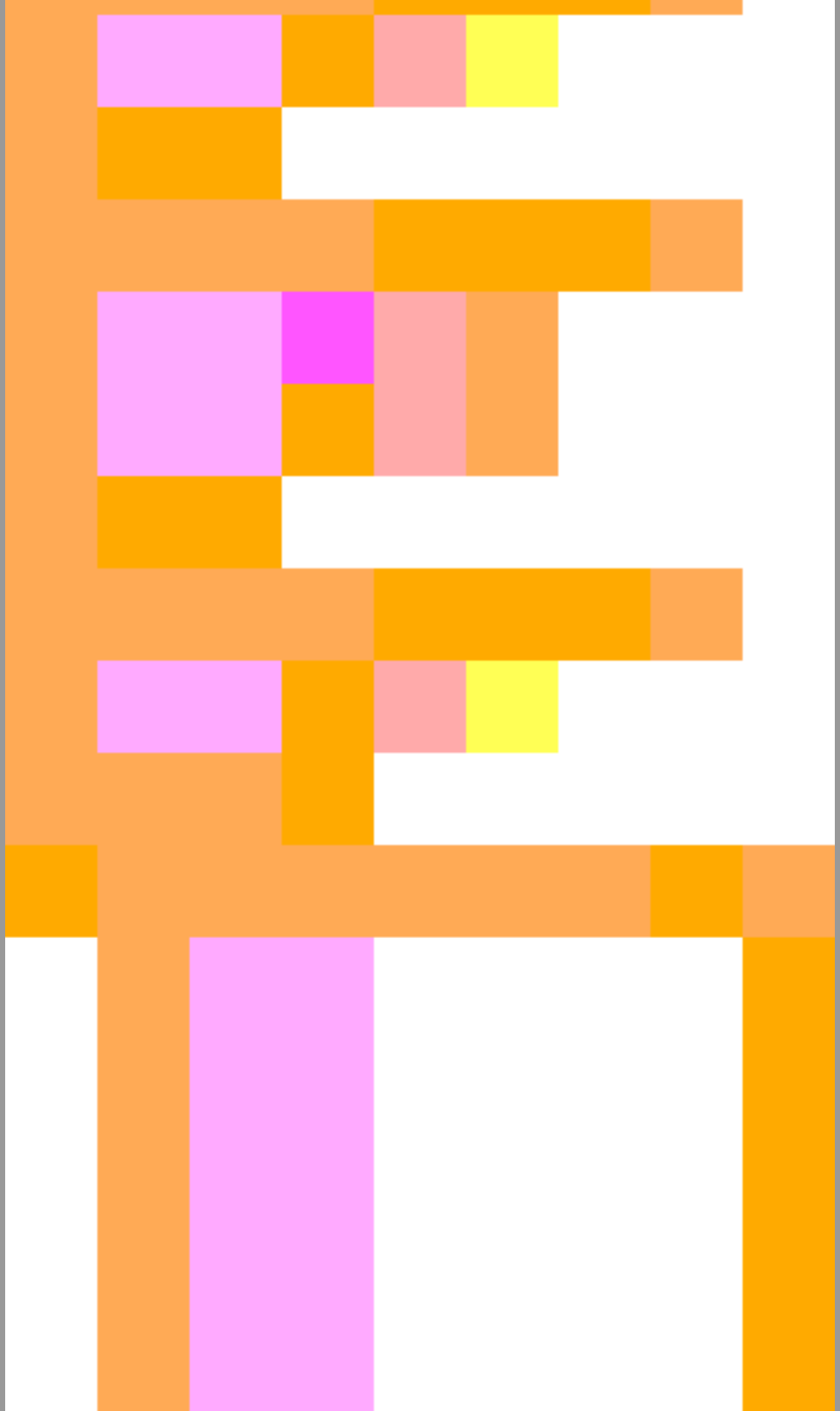
PHILLIP
STANLEY_MARBELL

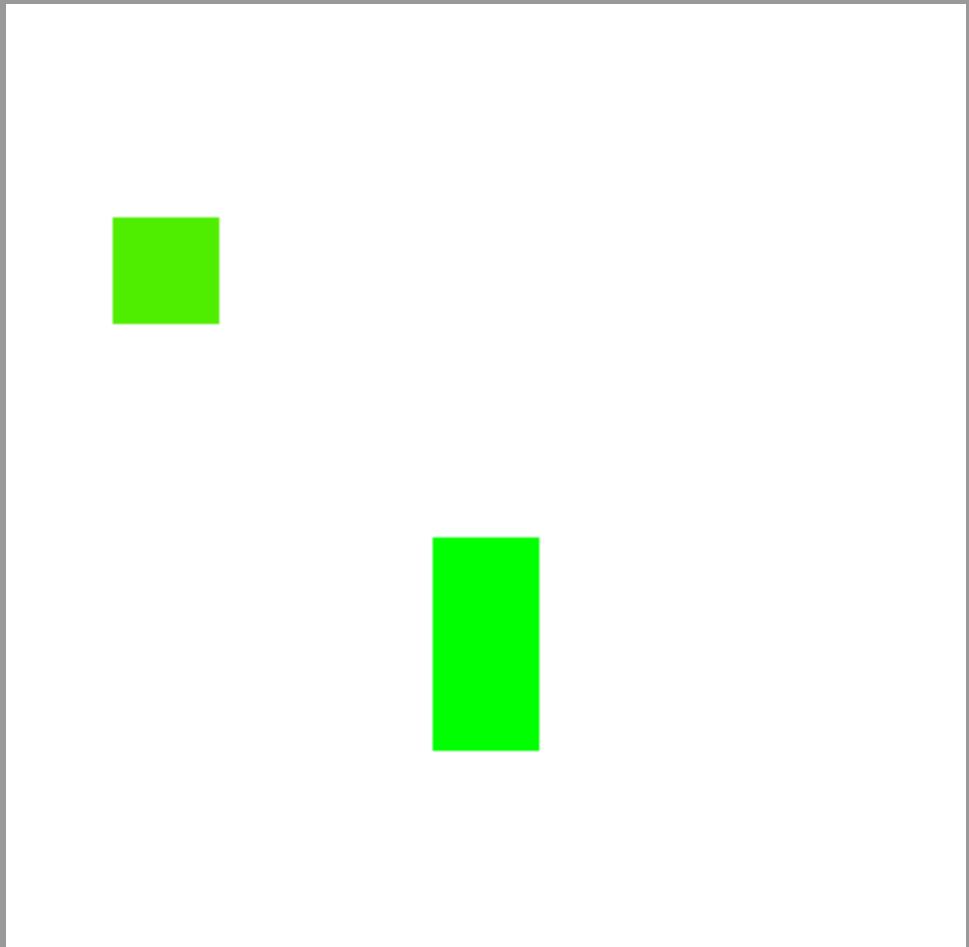












ACTIVE
INTERNET
CONNECTIONS
PROTO
RECV_Q
SEND_Q
LOCAL
ADDRESS
FOREIGN
ADDRESS
(STATE)
TCP
12178
0
M.32119
BSAC1_O_S03.SHOU.8004
ESTABLISHED
TCP
0
0
LOCALHOST.SUBMISSI
.
LISTEN
TCP
0
0
LOCALHOST.SMTP
.
LISTEN
TCP

0
0
M.13870
192.168.1.100.6666
ESTABLISHED
TCP
0
0
M.10269
192.168.1.100.SSH
ESTABLISHED
ACTIVE
INTERNET
CONNECTIONS
PROTO
RECV_Q
SEND_Q
LOCAL
ADDRESS
FOREIGN
ADDRESS
(STATE)
UDP
0
0
LOCALHOST.BIFF
.
ACTIVE
INTERNET
CONNECTIONS
PROTO
RECV_Q
SEND_Q
LOCAL
ADDRESS
FOREIGN
ADDRESS
(STATE)
TCP6
0
0
LOCALHOST.SUBMISSI
.
LISTEN
TCP6
0
0
LOCALHOST.SMTP
.
LISTEN
ACTIVE

```
INTERNET
CONNECTIONS
PROTO
RECV_Q
SEND_Q
LOCAL
ADDRESS
FOREIGN
ADDRESS
(STATE)
UDP6
0
0
LOCALHOST.BIFF
*.*
ACTIVE
UNIX
DOMAIN
SOCKETS
ADDRESS
TYPE
RECV_Q
SEND_Q
INODE
 CONN
 REFS
 NEXTREF
 ADDR
 0XD092BD4C
 STREAM
 0
 0
 0X0
 0XD09DB340
 0X0
 0X0
 /TMP/.X11_UNIX/X0
 0XD090B4B0
 STREAM
 0
 0
 0X0
 0XD0937500
 0X0
 0X0
 /TMP/.X11_UNIX/X0
 0XD092B25C
 STREAM
 0
 0
 0X0
```

```
0XD0937AC0
0X0
0X0
/TMP/.X11_UNIX/X0
0XD097EE18
STREAM
0
0
0X0
0XD0975B00
0X0
0X0
/TMP/.X11_UNIX/X0
0XD09AF26C
STREAM
0
0
0X0
0XD09B5B80
0X0
0X0
/TMP/.X11_UNIX/X0
0XD09AF654
STREAM
0
0
0X0
0XD09DB8C0
0X0
0X0
/TMP/.X11_UNIX/X0
0XD09AF71C
STREAM
0
0
0X0
0XD09D39C0
0X0
0X0
/TMP/.X11_UNIX/X0
0XD092B3EC
STREAM
0
0
0X0
0XD09C8540
0X0
0X0
/TMP/.X11_UNIX/X0
0XD092B89C
STREAM
```

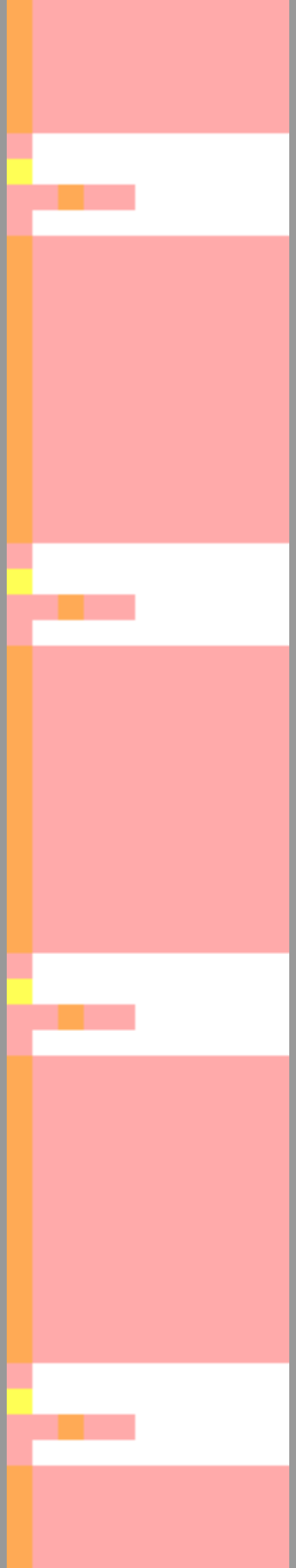
```
0
0
0x0
0xD0975680
0x0
0x0
/tmp/.X11_unix/X0
0xD092B0CC
stream
0
0
0x0
0xD0924740
0x0
0x0
/tmp/.X11_unix/X0
0xD097E7D8
stream
0
0
0x0
0xD09E6D00
0x0
0x0
/tmp/.X11_unix/X0
0xD097E648
stream
0
0
0x0
0xD09ZFEP0
 0x0
 0x0
 /tmp/.X11_unix/X0
 0xD097E4B8
 stream
 0
 0
 0x0
 0xD0982880
 0x0
 0x0
 /tmp/.X11_unix/X0
 0xD097E328
 stream
 0
 0
 0x0
 0xD0975E40
 0x0
 0x0
```

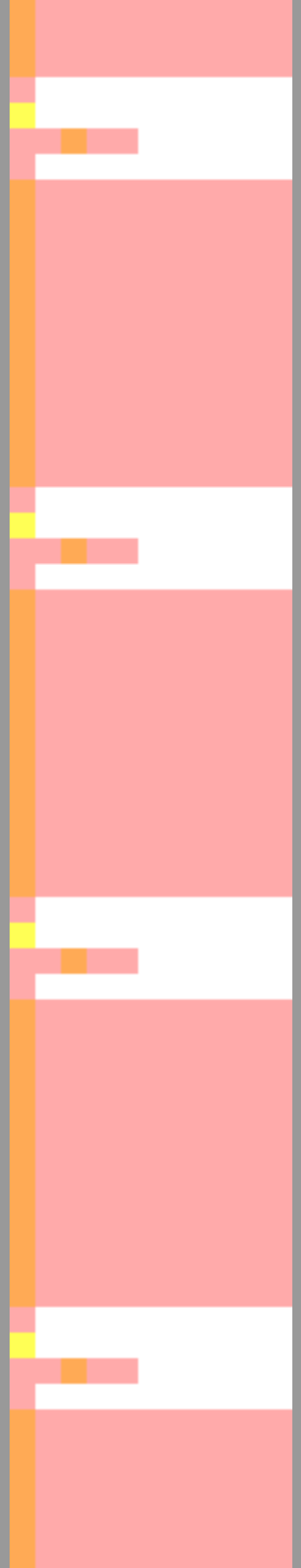
/TMP/.X11_UNIX/X0
0XD097E198
STREAM
0
0
0X0
0XD09973C0
0X0
0X0
/TMP/.X11_UNIX/X0
0XD097E008
STREAM
0
0
0XDAF13CB0
0X0
0X0
0X0
/TMP/.X11_UNIX/X0
0XD092B194
STREAM
0
0
0X0
0XD098E840
0X0
0X0
0XD09AF0DC
STREAM
0
0
0X0
0XD09E6C80
0X0
0X0
0XD09AF8AC
STREAM
0
0
0X0
0XD09C8300
0X0
0X0
0XD092BBBC
STREAM
0
0
0X0
0XD09AB180
0X0
0X0

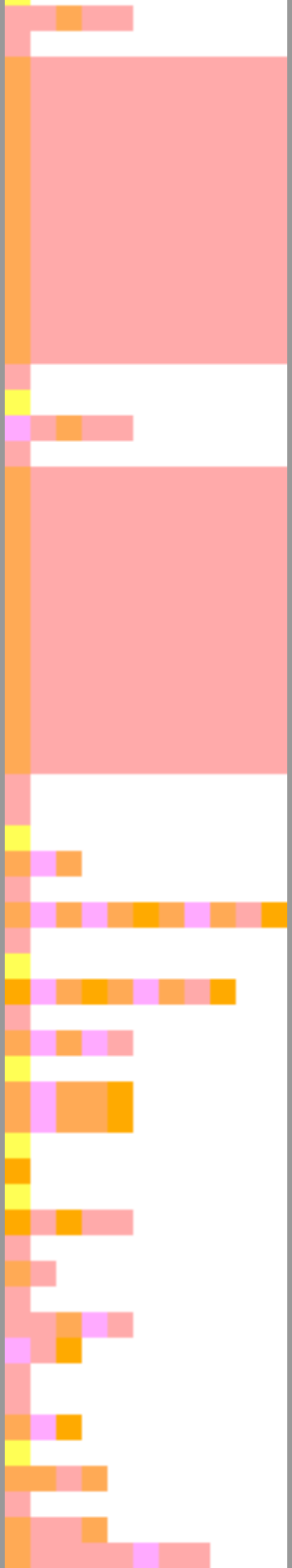
0XD090B258
STREAM
0
0
0X0
0XD09A1540
0X0
0X0
0XD092B964
STREAM
0
0
0X0
0XD098EF40
0X0
0X0
0XD092BA2C
STREAM
0
0
0XDAF3EC08
0X0
0X0
0X0
/TMP/XMMS_PIP.0
0XD097EAF8
STREAM
0
0
0X0
0XD0975780
0X0
0X0
0XD092B004
STREAM
0
0
0X0
0XD092CF00
0X0
0X0
0XD092B57C
STREAM
0
0
0X0
0XD098E480
^ᴗ^ᴗ
 0X0
 0XD09AFA3C
 STREAM

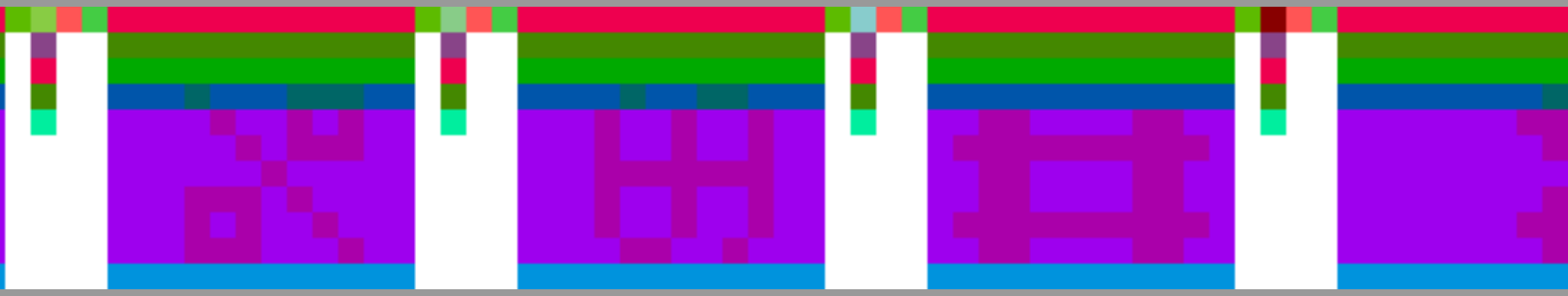
0
0
0X0
0XD098E3C0
0X0
0X0
0XD097E710
STREAM
0
0
0X0
0XD09E62C0
0X0
0X0
0XD097E580
STREAM
0
0
0X0
0XD0975180
0X0
0X0
0XD097E3F0
STREAM
0
0
0X0
0XD0967B00
0X0
0X0
0XD097E260
STREAM
0
0
0X0
0XD0967D00
0X0
0X0
0XD097E0D0
STREAM
0
0
0X0
0XD0997380
0X0
0X0
0XD090B190
DGRAM
0
0
0X0

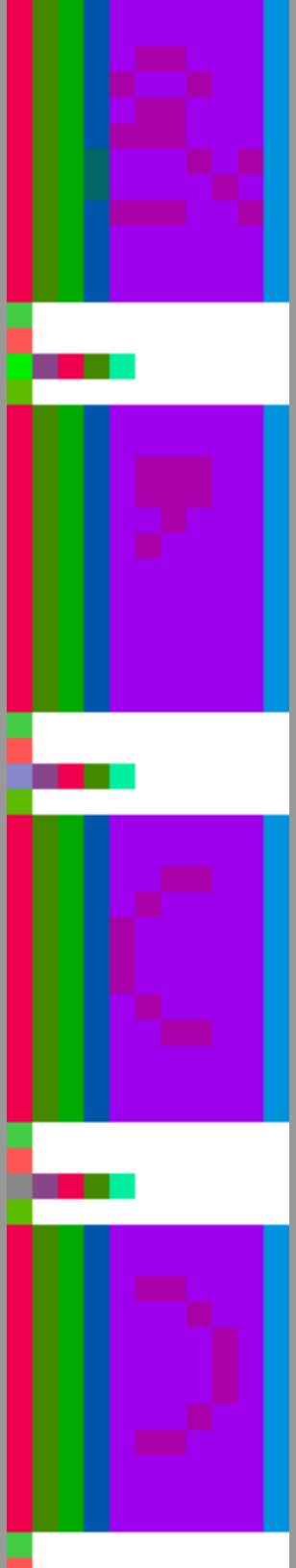
0XD08A4100
0X0
0X0
0XD090BE10
STREAM
0
0
0XDAEE1CAC
0X0
0X0
0X0
TABS/.SOCK
0XD090BD48
DGRAM
0
0
0X0
0XD08A4100
0X0
0XD090C900
0XD090B000
DGRAM
0
0
0XDAED20BC
0X0
0XD0924A40
0X0
/DEV/LOG

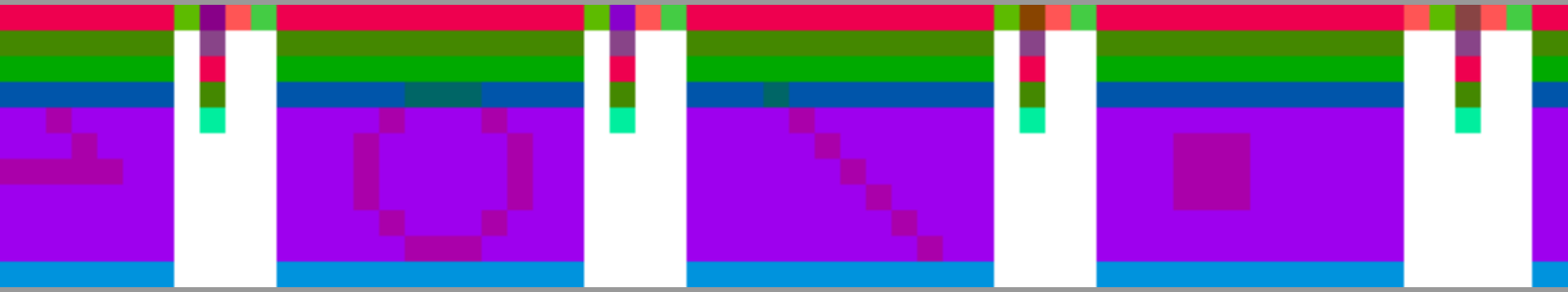


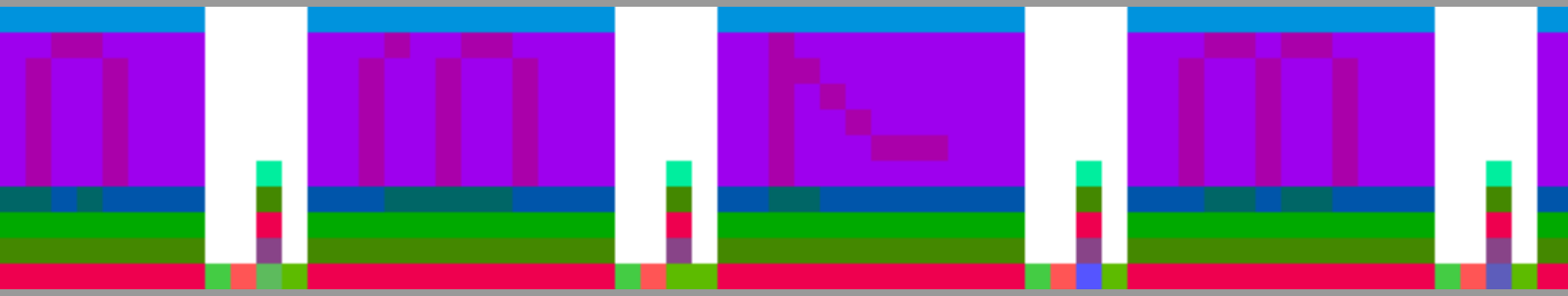


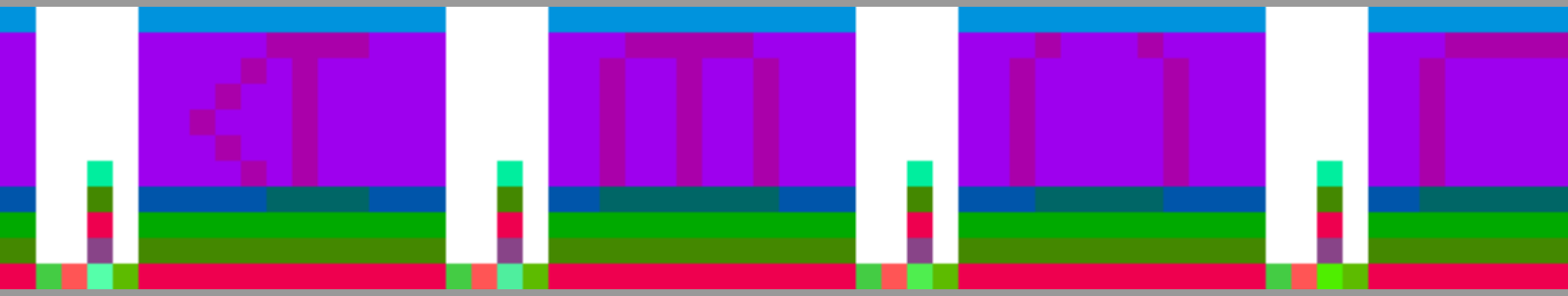


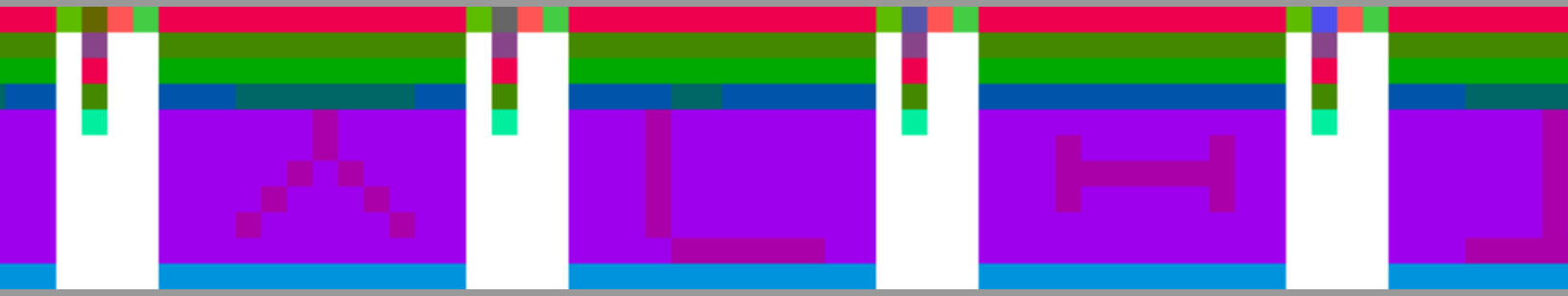


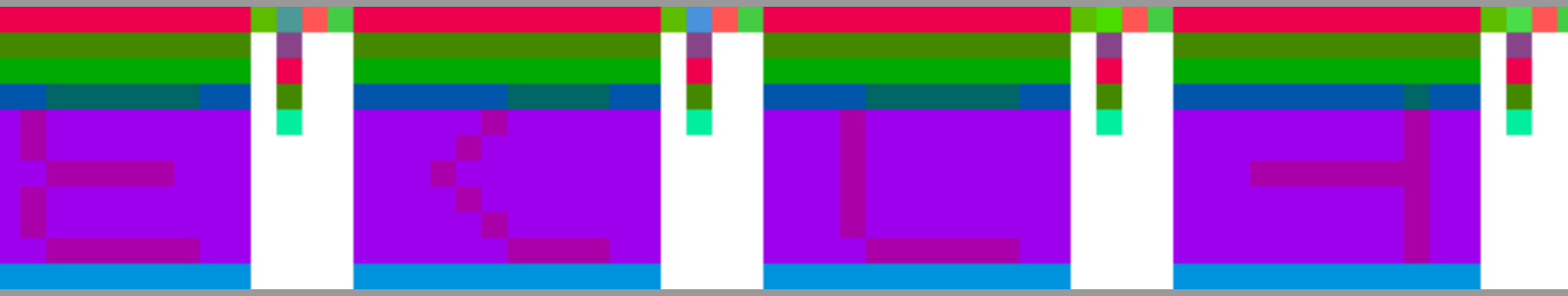


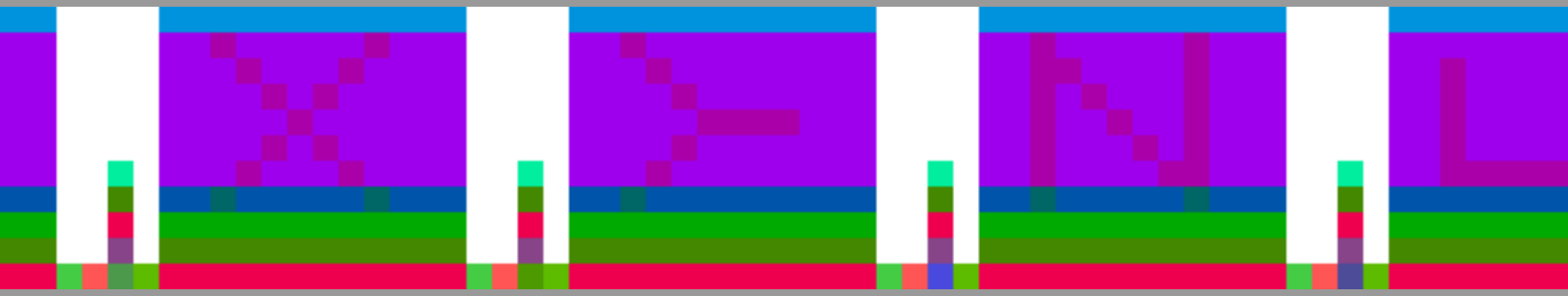


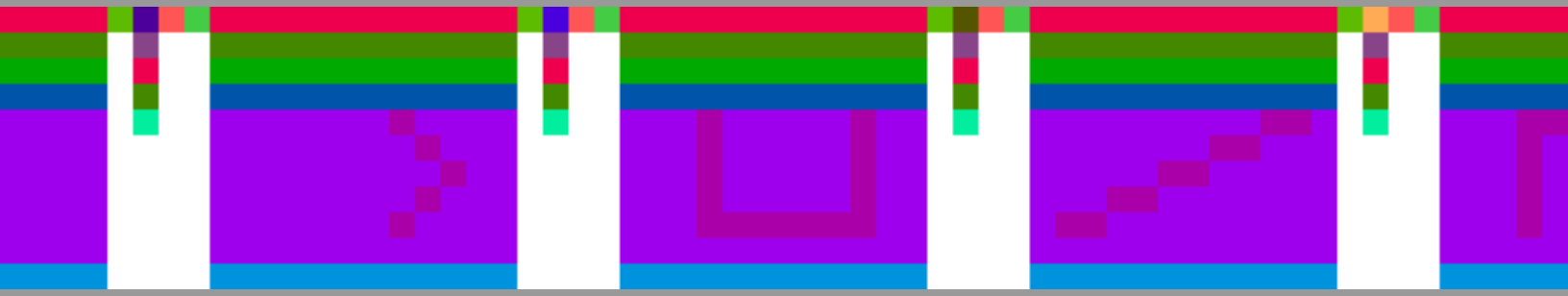


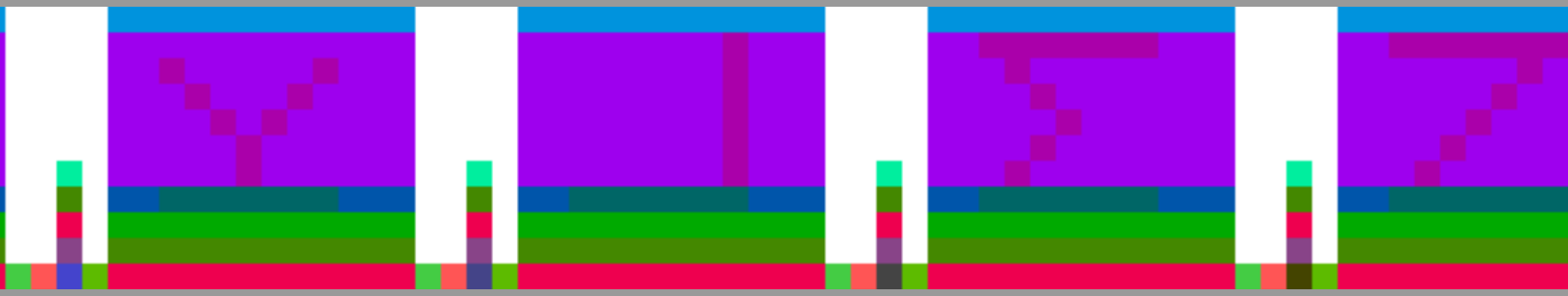


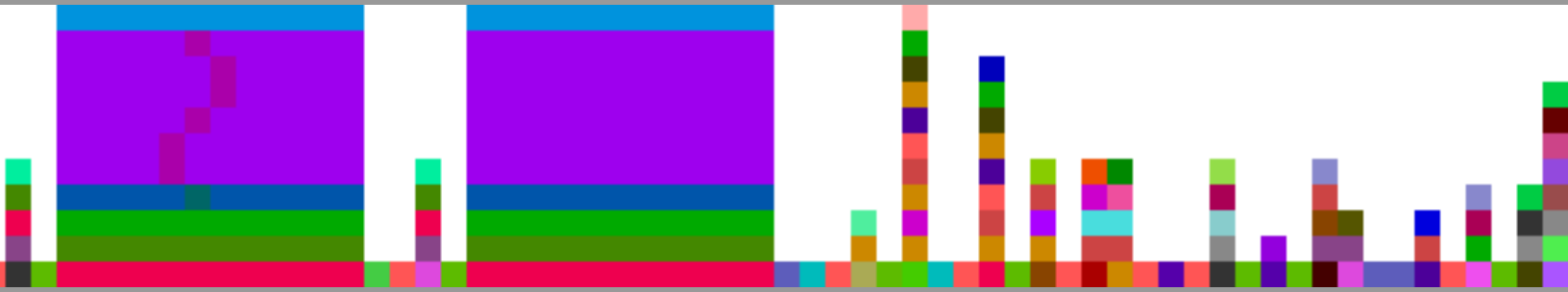












个'

```
#
#
BANNER'
(C)
2002
P.
STANLEY_MARBELL
#
PIP@GEMUSEHAKEN.ORG
#
IMPLEMENT
BANNER;
INCLUDE
""SYS.M"";
INCLUDE
""DRAW.M"";
INCLUDE
""ARG.M"";
SYS
:
SYS;
ARG
:
ARG;
BITMAPS
:=
ARRAY
[]
OF
{
```

```
'!'
=>
ARRAY
[]
OF
{
ARRAY
[]
OF
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
OF
{0'
0'
0'
1'
1'
0'
0'
0}'
ARRAY
[]
OF
{0'
0'
0'
1'
1'
0'
0'
0}'
ARRAY
[]
OF
{0'
0'
0'
1'
1'
0'
0'
0}'
ARRAY
```

```
⎕←
⎕F
{0,
0,
0,
1,
1,
0,
0,
0},
ARRAY
⎕←
⎕F
{0,
0,
0,
1,
1,
0,
0,
0},
ARRAY
⎕←
⎕F
{0,
0,
0,
1,
1,
0,
0,
0},
ARRAY
⎕←
⎕F
{0,
0,
0,
1,
1,
0,
0,
0},
ARRAY
⎕←
⎕F
{0,
0,
0,
0,
0,
```

```
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
1,
1,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
1,
1,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
},
'\"'
=>
ARRAY
[]
OF
{
ARRAY
[]
OF
{0,
0,
0,
0,
0,
```

```
0,
0,
0},
^ARRAY
 []
 ⎕F
 {0,
 0,
 0,
 0,
 0,
 0,
 0,
 0},
 ARRAY
 []
 ⎕F
 {1,
 1,
 1,
 0,
 1,
 1,
 1,
 0},
 ARRAY
 []
 ⎕F
 {1,
 1,
 1,
 0,
 1,
 1,
 1,
 0},
 ARRAY
 []
 ⎕F
 {0,
 1,
 0,
 0,
 0,
 1,
 0,
 0},
 ARRAY
 []
 ⎕F
 {0,
```

0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},

```
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
}'
'⍞'
=>
ARRAY
[]
⎕F
{
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
1'
0'
0'
1'
0'
0}'
```

```
ARRAY
[]
OF
{0,
1,
1,
1,
1,
1,
1,
0},
ARRAY
[]
OF
{0,
1,
1,
1,
1,
1,
1,
0},
ARRAY
[]
OF
{0,
0,
1,
0,
0,
1,
0,
0},
ARRAY
[]
OF
{0,
0,
1,
0,
0,
1,
0,
0},
ARRAY
[]
OF
{0,
0,
1,
0,
```

```
0,
1,
0,
0},
ARRAY
[]
⎕F
{0,
0,
1,
0,
0,
1,
0,
0},
ARRAY
[]
⎕F
{0,
 1,
 1,
 1,
 1,
 1,
 1,
 0},
 ARRAY
 []
 ⎕F
 {0,
 1,
 1,
 1,
 1,
 1,
 1,
 0},
 ARRAY
 []
 ⎕F
 {0,
 0,
 1,
 0,
 0,
 1,
 0,
 0},
 ARRAY
 []
 ⎕F
```

```
{0'
0'
0'
0'
0'
0'
0'
0}'
}'
'$'
=>
ARRAY
[]
⎕F
{
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
1'
1'
1'
1'
1'
0'
0}'
ARRAY
[]
⎕F
```

{1,
0,
0,
1,
0,
0,
1,
0},
ARRAY
[]
OF
{1,
0,
0,
1,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
1,
1,
1,
1,
1,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
1,
0,
0,
1,
0},
ARRAY
[]
OF
{1,
0,
0,
1,
0,
0,
1,

```
0},
ARRAY
[]
OF
{0,
1,
1,
1,
1,
1,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
},
'%'
=>
ARRAY
[]
OF
```

```
{
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{1'
1'
1'
0'
0'
0'
1'
0}'
ARRAY
¯[⌋
 ⎕F
 {1'
 0'
 1'
 0'
 0'
 1'
 0'
 0}'
 ARRAY
 []
 ⎕F
 {1'
 1'
 1'
```

```
0,
1,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
1,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
1,
0,
1,
1,
1,
0},
ARRAY
[]
OF
{0,
1,
0,
0,
1,
0,
1,
0},
ARRAY
[]
OF
{1,
0,
0,
0,
1,
1,
1,
0},
ARRAY
[]
```

```
□F
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
□F
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
□F
{0,
0,
0,
0,
0,
0,
0,
0},
},
'&'
=>
ARRAY
[]
□F
{
ARRAY
[]
□F
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
```

```
⎕F
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
⎕F
{0,
0,
1,
1,
0,
0,
0,
0},
ARRAY
[]
⎕F
{0,
1,
0,
0,
1,
0,
0,
0},
ARRAY
[]
⎕F
{0,
0,
1,
1,
0,
0,
0,
0},
ARRAY
[]
⎕F
{0,
1,
1,
1,
0,
0,
```

```
0,
0},
ARRAY
[]
OF
{1,
0,
0,
0,
1,
0,
1,
0},
ARRAY
[]
OF
{1,
0,
0,
0,
0,
1,
0,
0},
ARRAY
[]
OF
{0,
1,
1,
1,
0,
0,
1,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
```

```
o'
 `o'
  o'
  o'
  o'
  o}'
  ARRAY
  []
  OF
  {o'
  o'
  o'
  o'
  o'
  o'
  o'
  o}'
  }'
  '\''
  =>
  ARRAY
  []
  OF
  {
  ARRAY
  []
  OF
  {o'
  o'
  o'
  o'
  o'
  o'
  o'
  o}'
  ARRAY
  []
  OF
  {o'
  o'
  o'
  o'
  o'
  o'
  o'
  o}'
  ARRAY
  []
  OF
  {o'
  o'
```

```
1,
1,
1,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
1,
1,
1,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
1,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
1,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
```

[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,

```
0,
0,
0},
},
,{,
=>
ARRAY
[]
OF
{
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
1,
1,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
1,
0,
0,
```

```
0,
0,
0},
ARRAY
[]
OF
{0,
1,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
1,
 0,
 0,
 0,
 0,
 0,
 0},
 ARRAY
 []
 OF
 {0,
 1,
 0,
 0,
 0,
 0,
 0,
 0},
 ARRAY
 []
 OF
 {0,
 0,
 1,
 0,
 0,
 0,
 0,
 0},
 ARRAY
 []
 OF
 {0,
```

```
0,
0,
1,
1,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
},
),
=>
ARRAY
[]
OF
{
ARRAY
[]
OF
{0,
```

```
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
1,
1,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
1,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
1,
0,
0},
```

```
ARRAY
[]
OF
{0,
0,
0,
0,
0,
1,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
1,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
1,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
1,
1,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
```

```
○'
○'
○'
○}'
ARRAY
[]
⎕F
{○'
○'
○'
○'
○'
○'
○'
○}'
ARRAY
[]
⎕F
{○'
○'
○'
○'
○'
○'
○'
○}'
}'
'*'
=>
ARRAY
[]
⎕F
{
ARRAY
⌈⌋⍳
 ⎕F
 {○'
 ○'
 ○'
 ○'
 ○'
 ○'
 ○'
 ○}'
 ARRAY
 []
 ⎕F
 {○'
 ○'
 ○'
 ○'
```

```
0,
0,
0,
0},
ARRAY
[]
OF
{0,
1,
0,
0,
0,
1,
0,
0},
ARRAY
[]
OF
{0,
0,
1,
0,
1,
0,
0,
0},
ARRAY
[]
OF
{1,
1,
1,
1,
1,
1,
1,
0},
ARRAY
[]
OF
{0,
0,
1,
0,
1,
0,
0,
0},
ARRAY
[]
OF
```

```
{0,
1,
0,
0,
0,
1,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0,
```

```
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
}'
'+'
=>
ARRAY
[]
⎕F
{
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
1'
0'
0'
0'
```

```
0},
ARRAY
[]
OF
{0,
0,
0,
1,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
1,
1,
1,
1,
1,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
1,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
1,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
```

```
0,
 0,
 0,
 0,
 0},
 ARRAY
 []
 OF
 {0,
 0,
 0,
 0,
 0,
 0,
 0,
 0},
 ARRAY
 []
 OF
 {0,
 0,
 0,
 0,
 0,
 0,
 0,
 0},
 ARRAY
 []
 OF
 {0,
 0,
 0,
 0,
 0,
 0,
 0,
 0},
 ARRAY
 []
 OF
 {0,
 0,
 0,
 0,
 0,
 0,
 0,
 0},
 },
 ''''
```

```
=>
ARRAY
[]
OF
{
ARRAY
[]
OF
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
OF
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
OF
{0'
0'
1'
1'
1'
0'
0'
0}'
ARRAY
[]
OF
{0'
0'
1'
1'
1'
0'
0'
0}'
ARRAY
[]
```

```
OF
{0,
0,
0,
1,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
1,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
```

```
o'
o}'
ARRAY
[]
□F
{o'
o'
o'
o'
o'
o'
o'
o}'
ARRAY
[]
□F
{o'
o'
o'
o'
o'
o'
o'
o}'
ARRAY
[]
□F
{o'
o'
o'
o'
o'
o'
o'
o}'
}'
'_'
=>
ARRAY
[]
□F
{
ARRAY
[]
□F
{o'
o'
o'
o'
o'
o'
```

```
o'
o}'
ARRAY
[]
□F
{o'
o'
o'
o'
o'
o'
o'
o}'
ARRAY
[]
□F
{o'
o'
^o'
 o'
 o'
 o'
 o'
 o}'
 ARRAY
 []
 □F
 {o'
 o'
 o'
 o'
 o'
 o'
 o'
 o}'
 ARRAY
 []
 □F
 {o'
 o'
 o'
 o'
 o'
 o'
 o'
 o}'
 ARRAY
 []
 □F
 {o'
 o'
```

```
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
1'
1'
1'
1'
1'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
```

```
[]
⎕F
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
⎕F
{0,
0,
0,
0,
0,
0,
0,
0},
},
',',
=>
ARRAY
[]
⎕F
{
ARRAY
[]
⎕F
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
⎕F
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
```

```
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
1'
1'
1'
```

```
○,
○,
○},
ARRAY
[]
□F
{○,
○,
1,
1,
1,
○,
○,
○},
ARRAY
[]
□F
{○,
○,
1,
1,
1,
○,
○,
○},
ARRAY
[]
□F
{○,
○,
○,
○,
○,
○,
○,
○},
ARRAY
[]
□F
{○,
 ○,
 ○,
 ○,
 ○,
 ○,
 ○,
 ○},
 ARRAY
 []
 □F
 {○,
```

```
0'
0'
0'
0'
0'
0'
0}'
}'
'/'
=>
ARRAY
[]
⎕F
{
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
1'
0}'
ARRAY
[]
⎕F
{0'
```

```
0'
0'
0'
0'
1'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
1'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
1'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
1'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
1'
0'
0'
0'
0'
0'
0}'
```

```
ARRAY
[]
⎕F
{1'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
}'
'0'
=>
ARRAY
[]
⎕F
{
```

```
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
0'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
0'
1'
1'
1'
0'
0'
0}'
ARRAY
[]
⎕F
{0'
1'
0'
0'
0'
1'
0'
0}'
ARRAY
[]
⎕F
{1'
0'
0'
0'
```

```
0'
0'
1'
0}'
ARRAY
[]
⊃B,
 {1'
 0'
 0'
 0'
 0'
 0'
 1'
 0}'
 ARRAY
 []
 ⊃F
 {1'
 0'
 0'
 0'
 0'
 0'
 1'
 0}'
 ARRAY
 []
 ⊃F
 {0'
 1'
 0'
 0'
 0'
 1'
 0'
 0}'
 ARRAY
 []
 ⊃F
 {0'
 0'
 1'
 1'
 1'
 0'
 0'
 0}'
 ARRAY
 []
 ⊃F
```

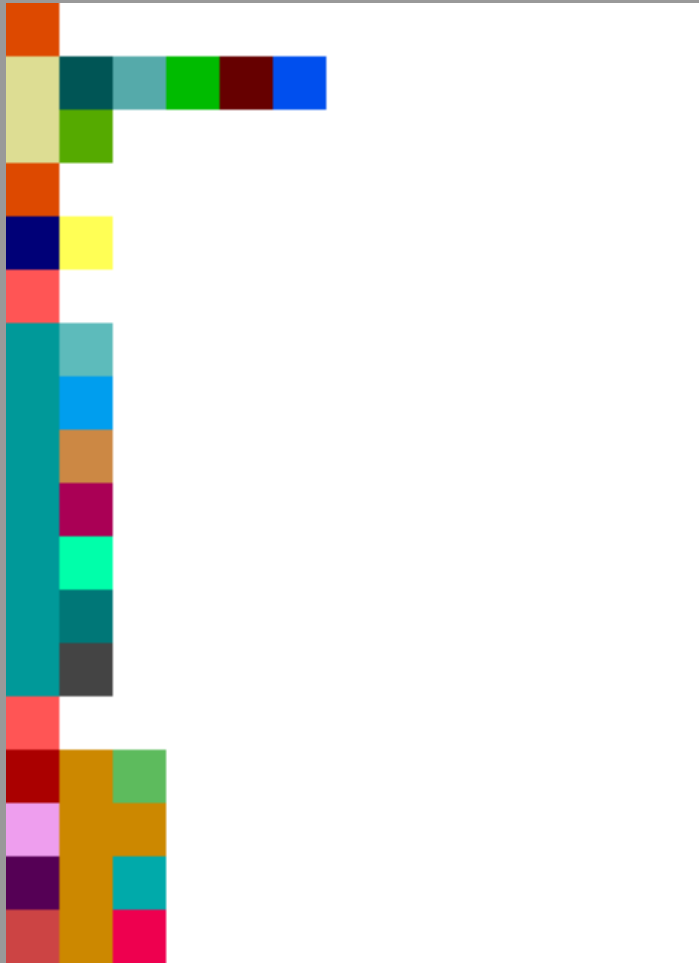
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
},
'1'
=>
ARRAY
[]
OF
{
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF

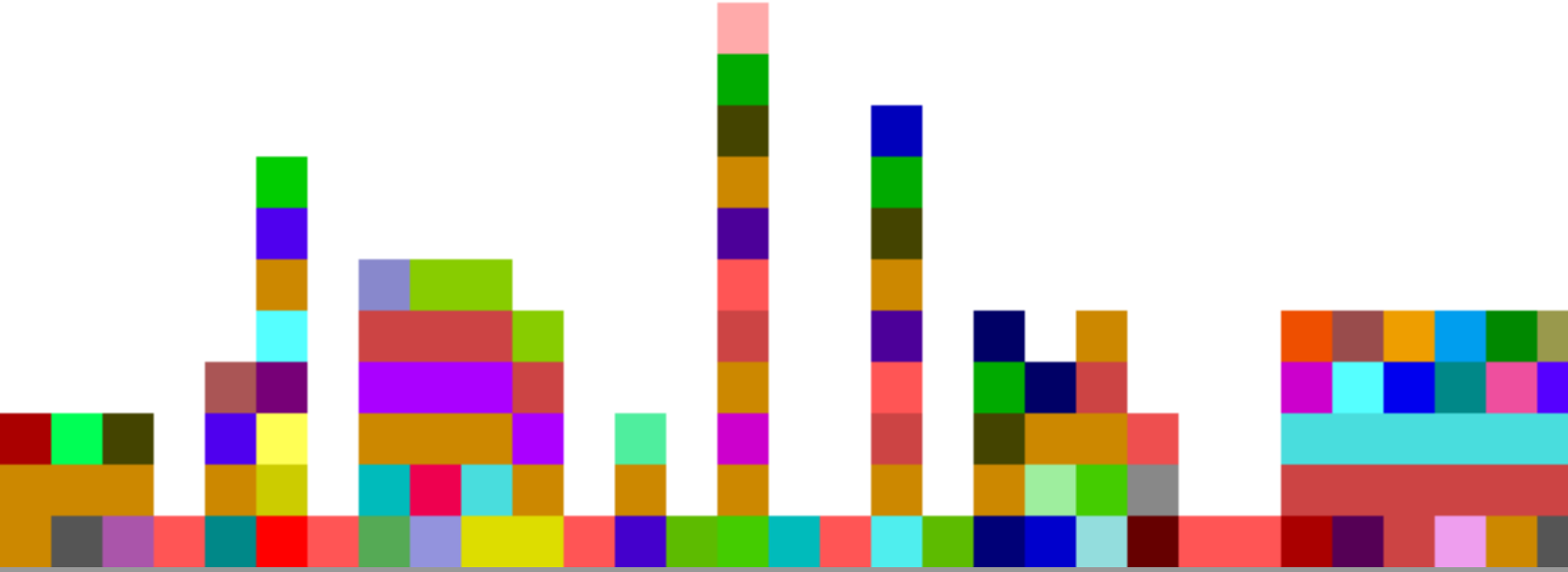
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
1,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
1,
1,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
1,
0,
1,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
1,
0,
0,
0,

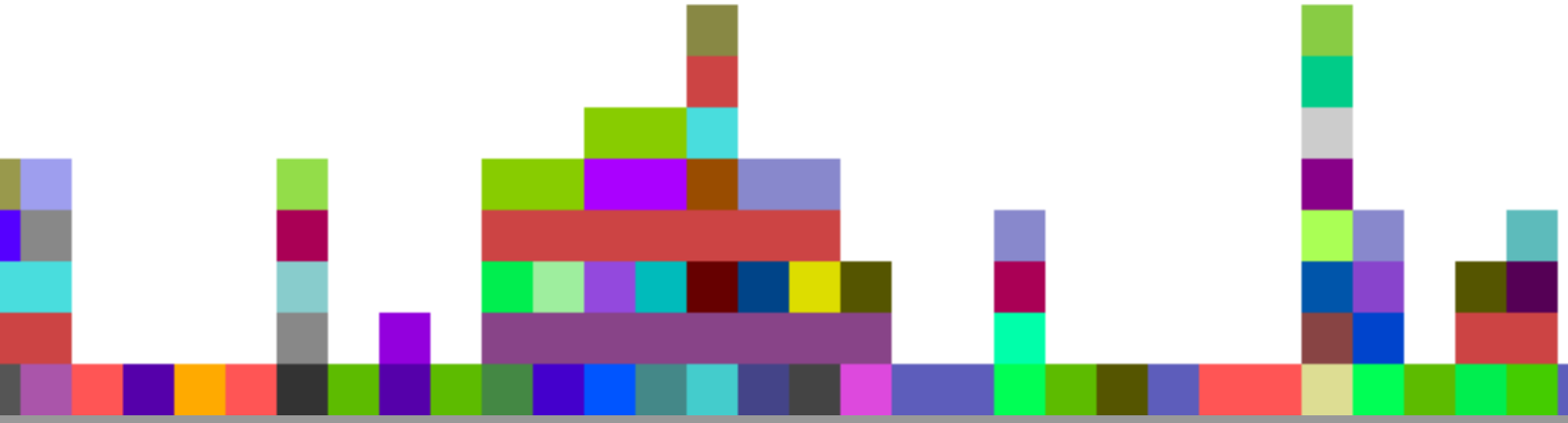
```
0},
ARRAY
[]
OF
{0,
0,
0,
1,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
1,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
1,
1,
1,
1,
1,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
```

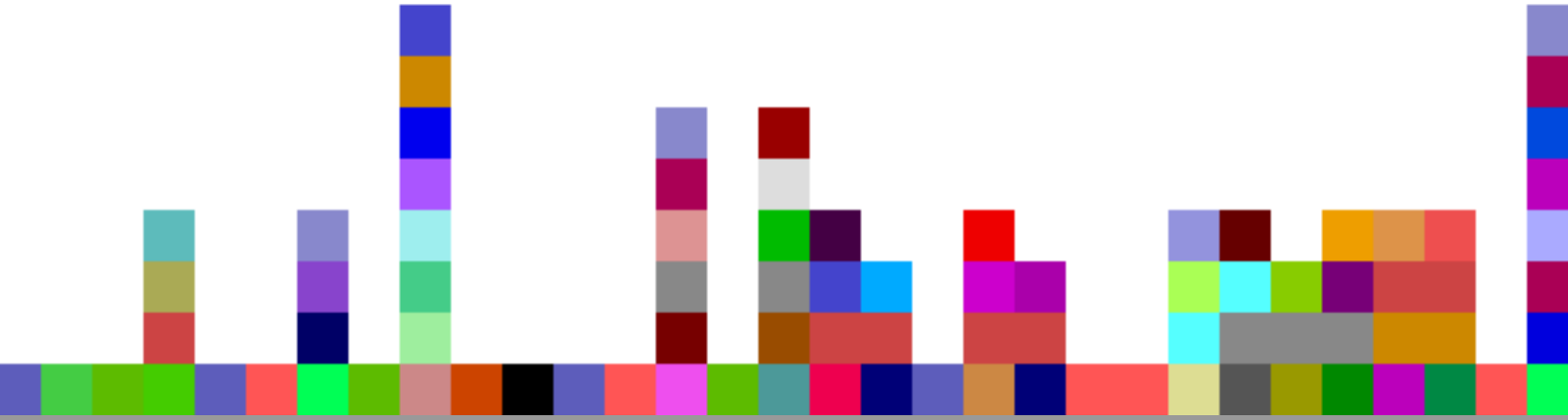
```
0,
0,
0,
0,
0},
ARRAY
[]
OF
{0,
0,
0,
0,
0,
0,
0,
0},
},
'2'
=>
ARRAY
[]
OF
{
^ARRAY
 []
 OF
 {0,
 0,
 0,
 0,
 0,
 0,
 0,
 0},
 ARRAY
 []
 OF
 {0,
 0,
 0,
 0,
 0,
 0,
 0,
 0},
 ARRAY
 []
 OF
 {0,
 1,
 1,
```

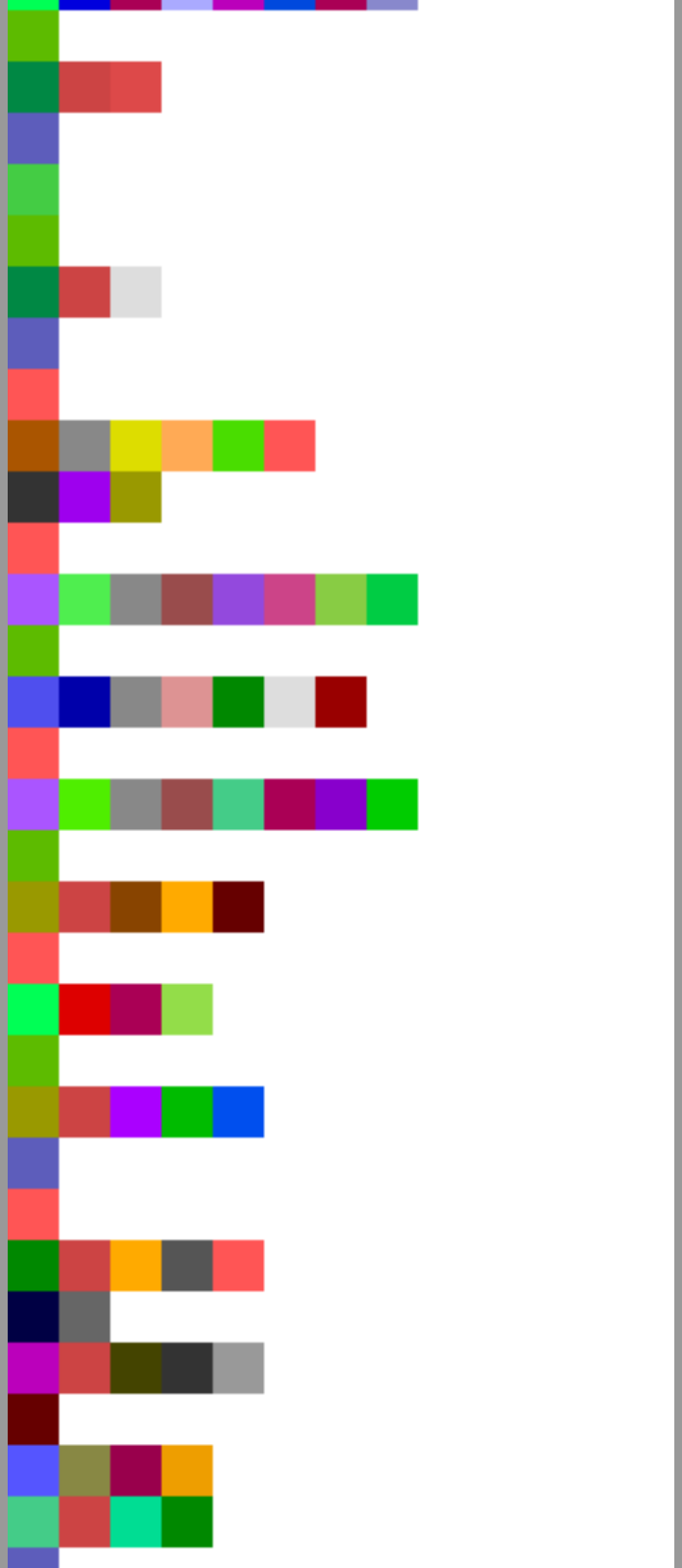
```
1'
1'
1'
0'
0}'
ARRAY
[]
⎕F
{1'
0'
0'
0'
0'
0'
1'
0}'
ARRAY
[]
⎕F
{0'
0'
0'
0'
```

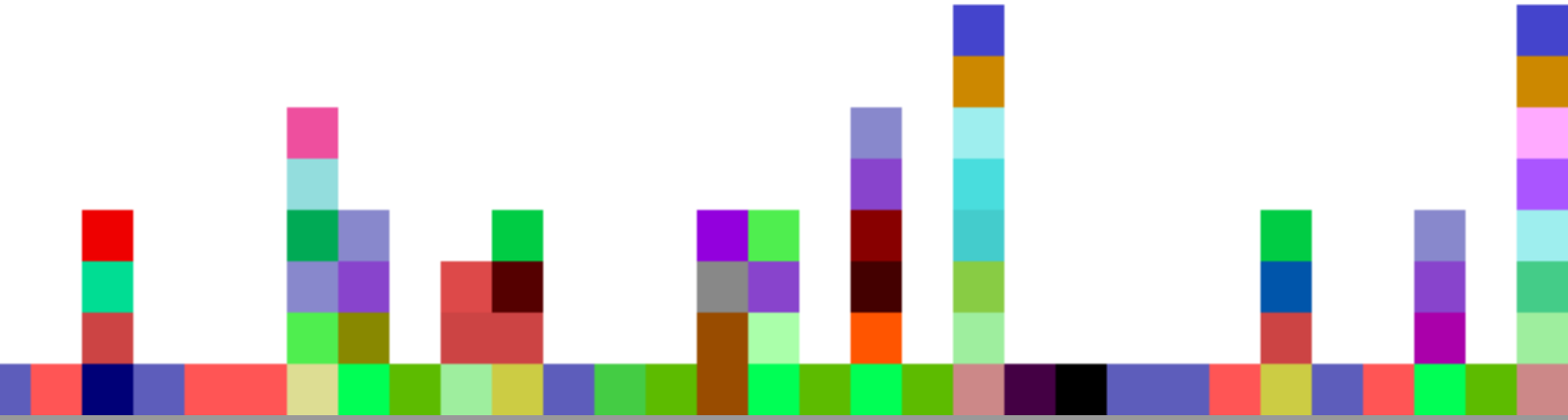


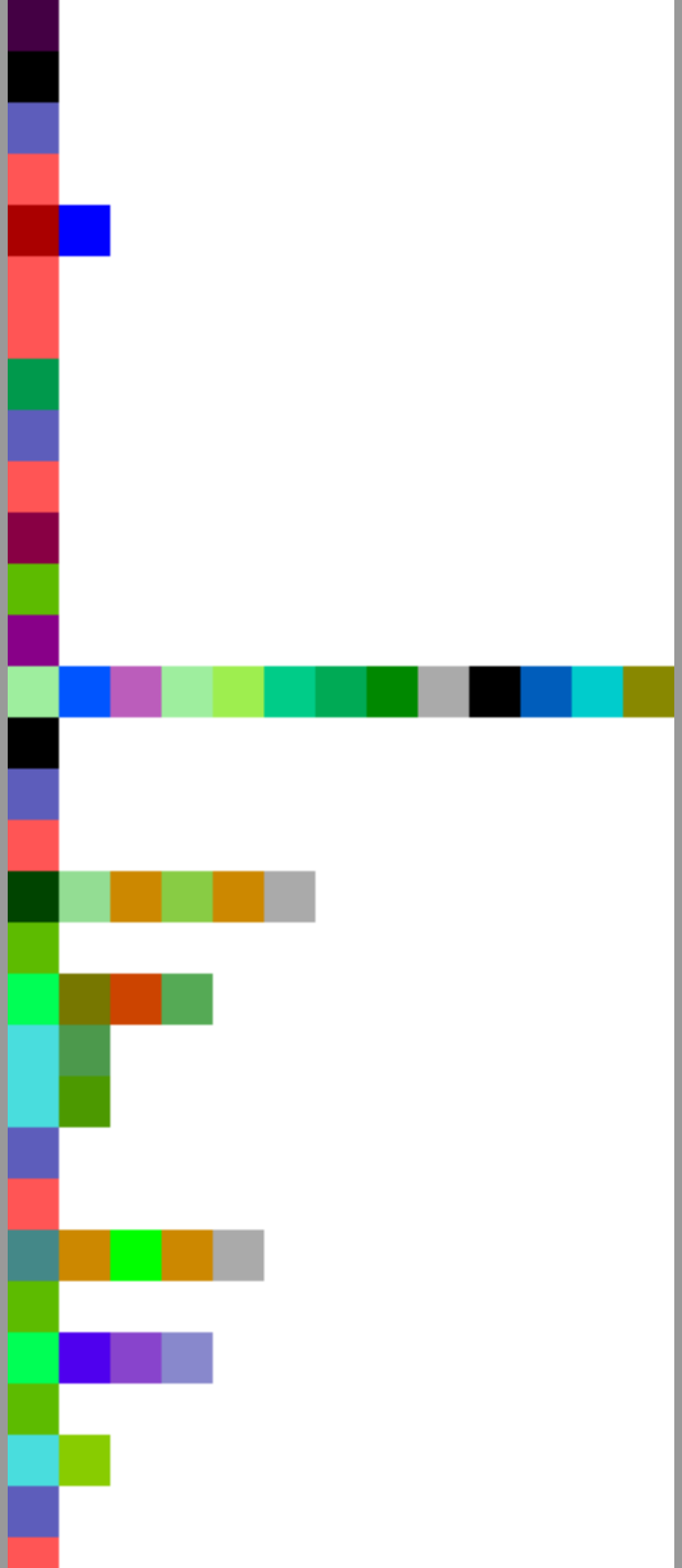


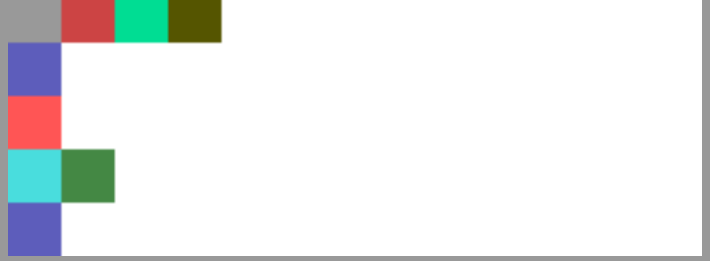


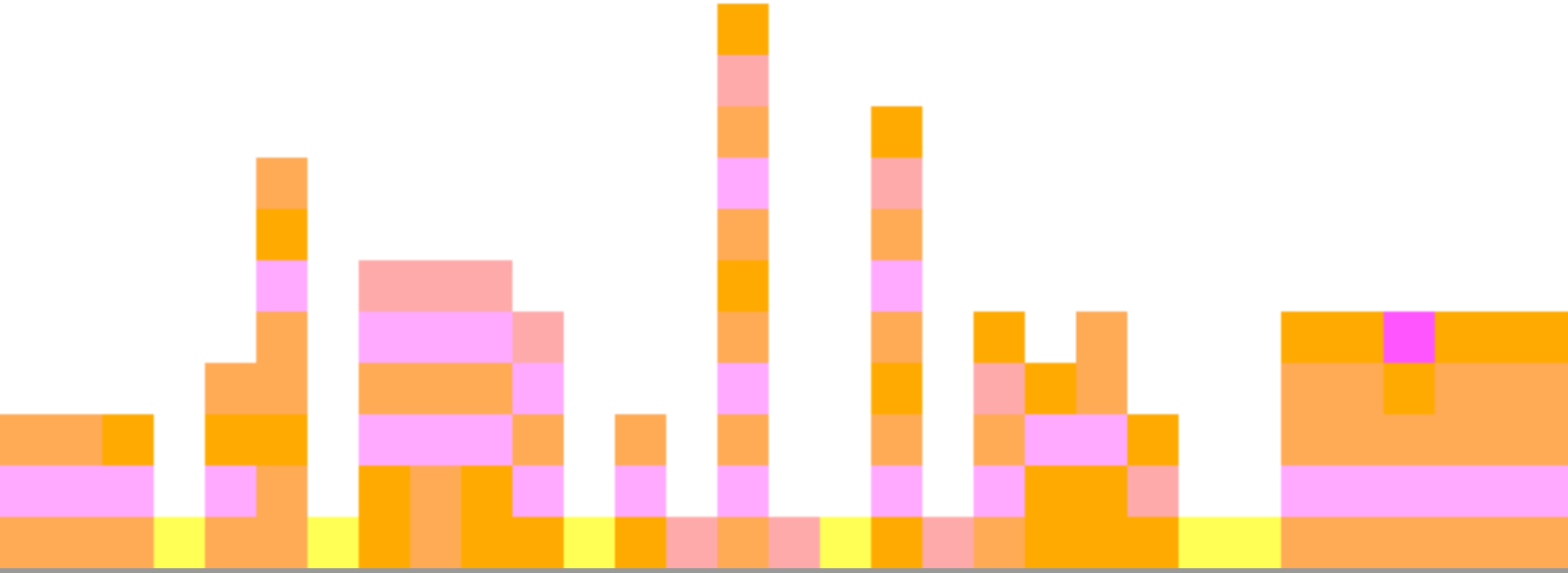


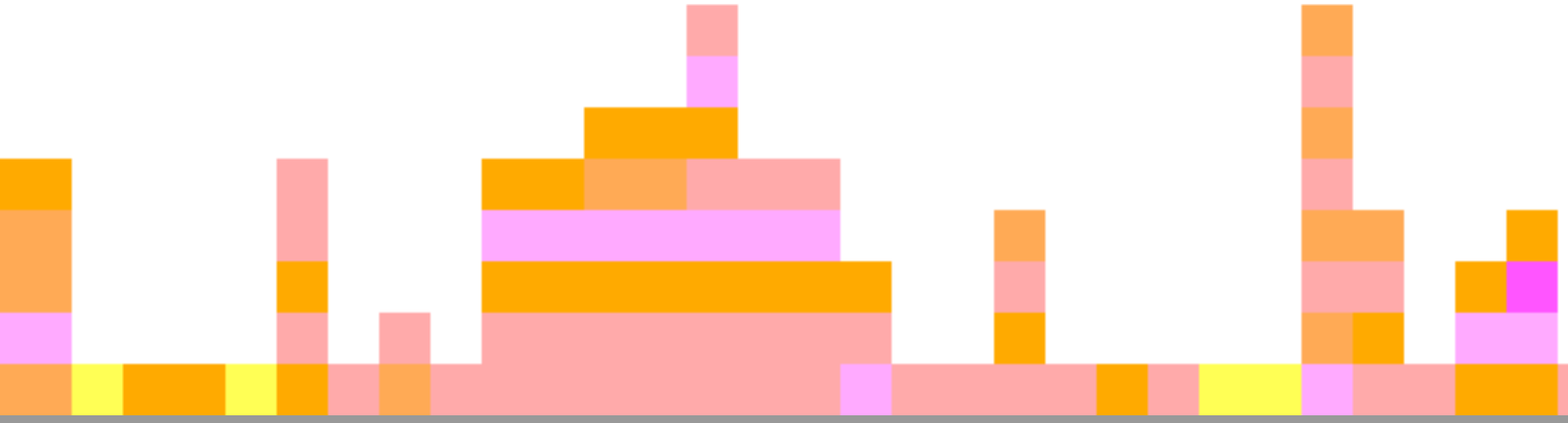


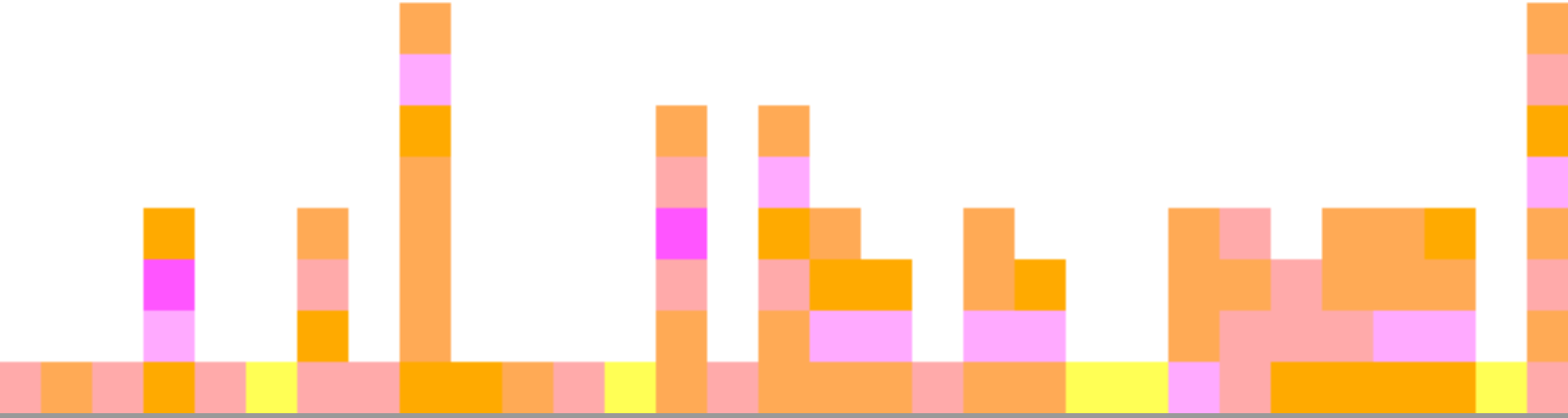


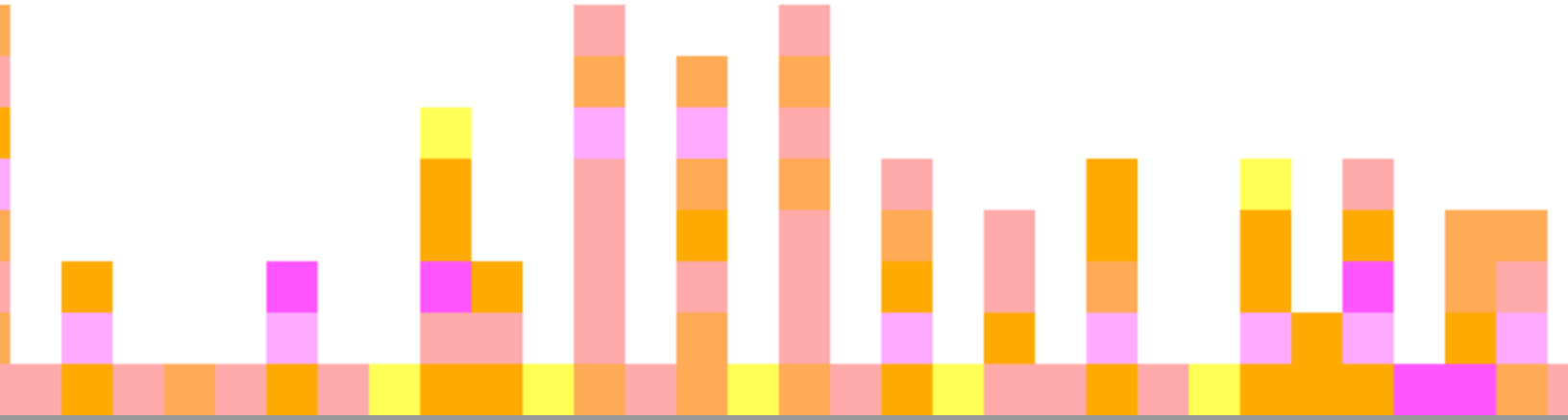


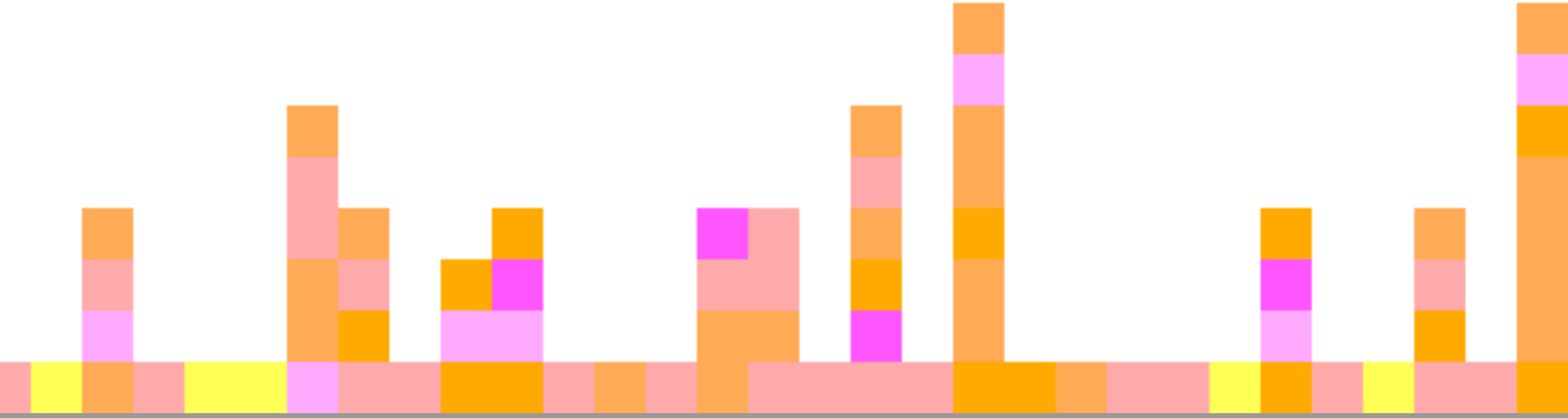


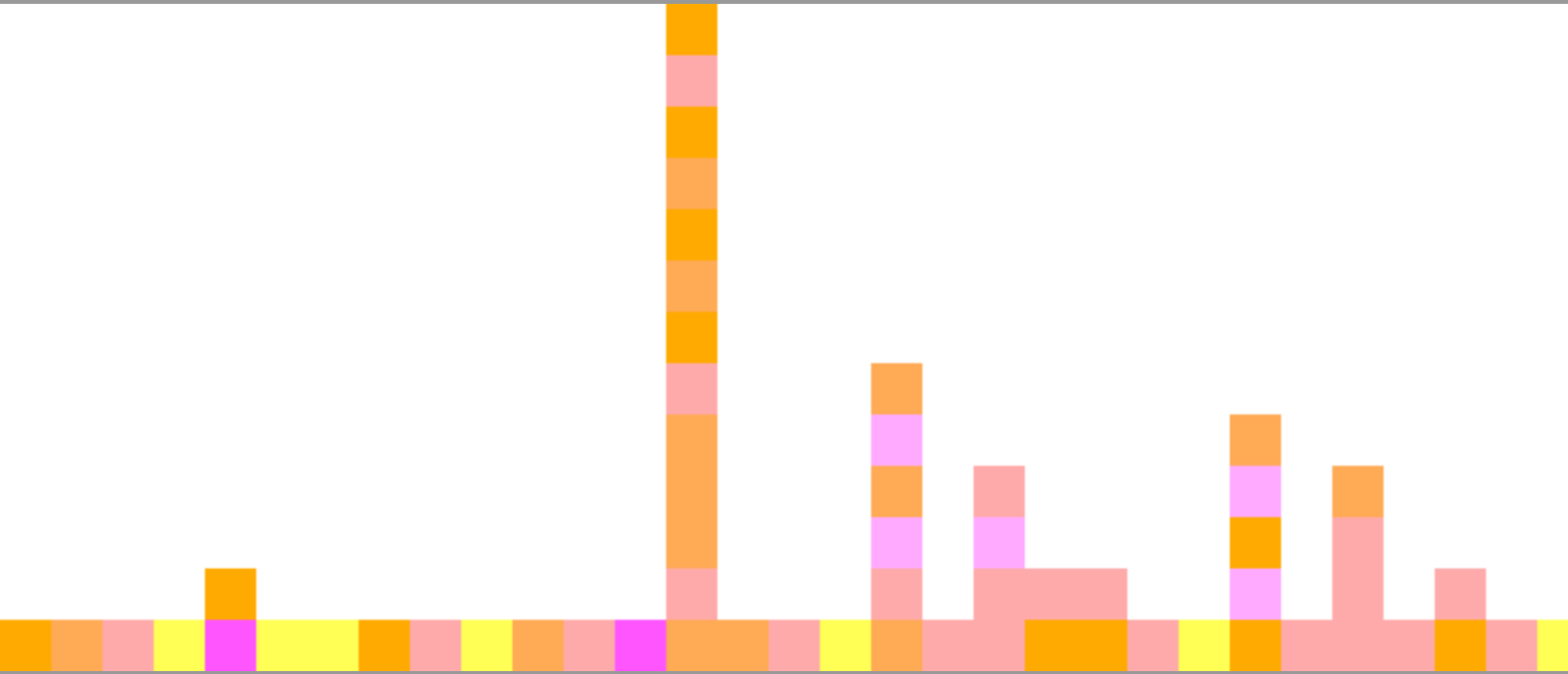


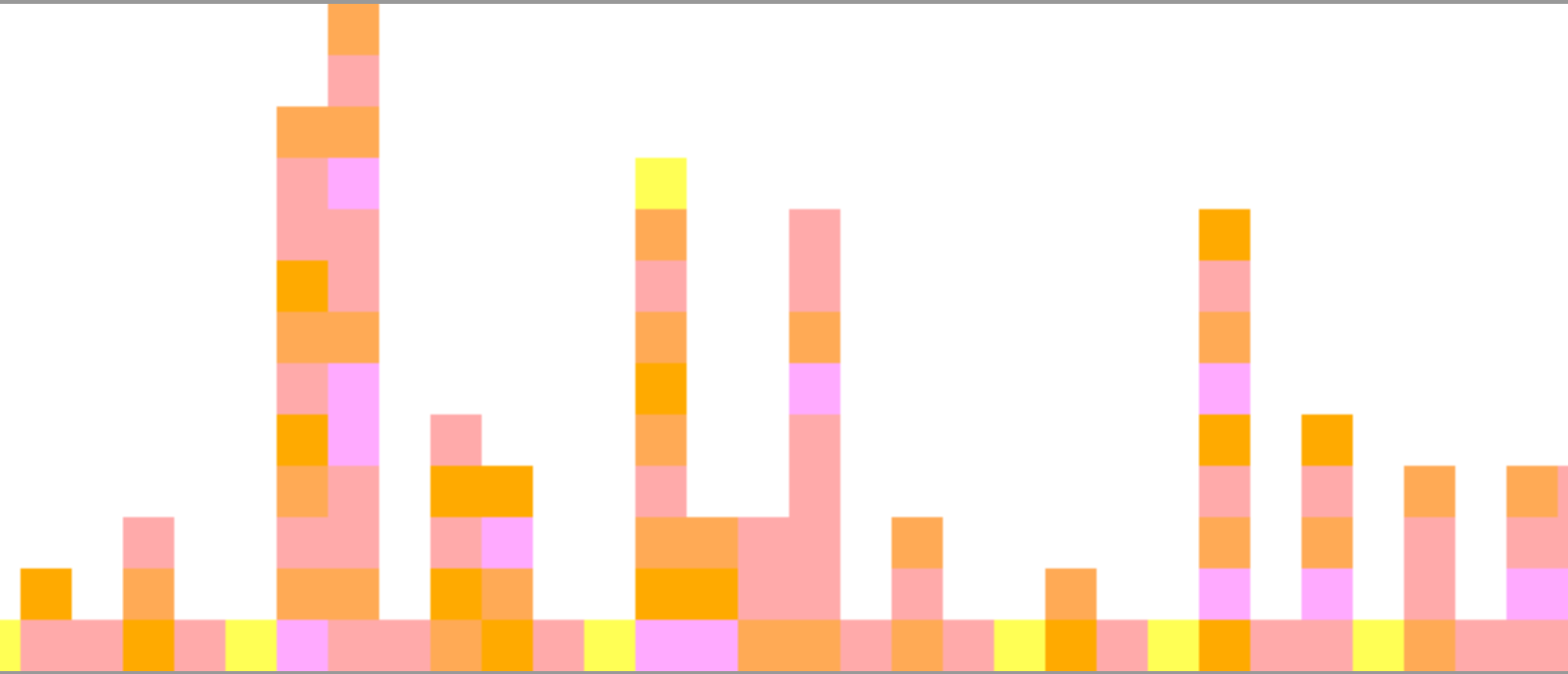


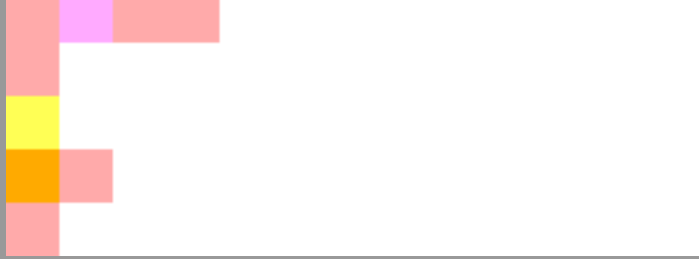


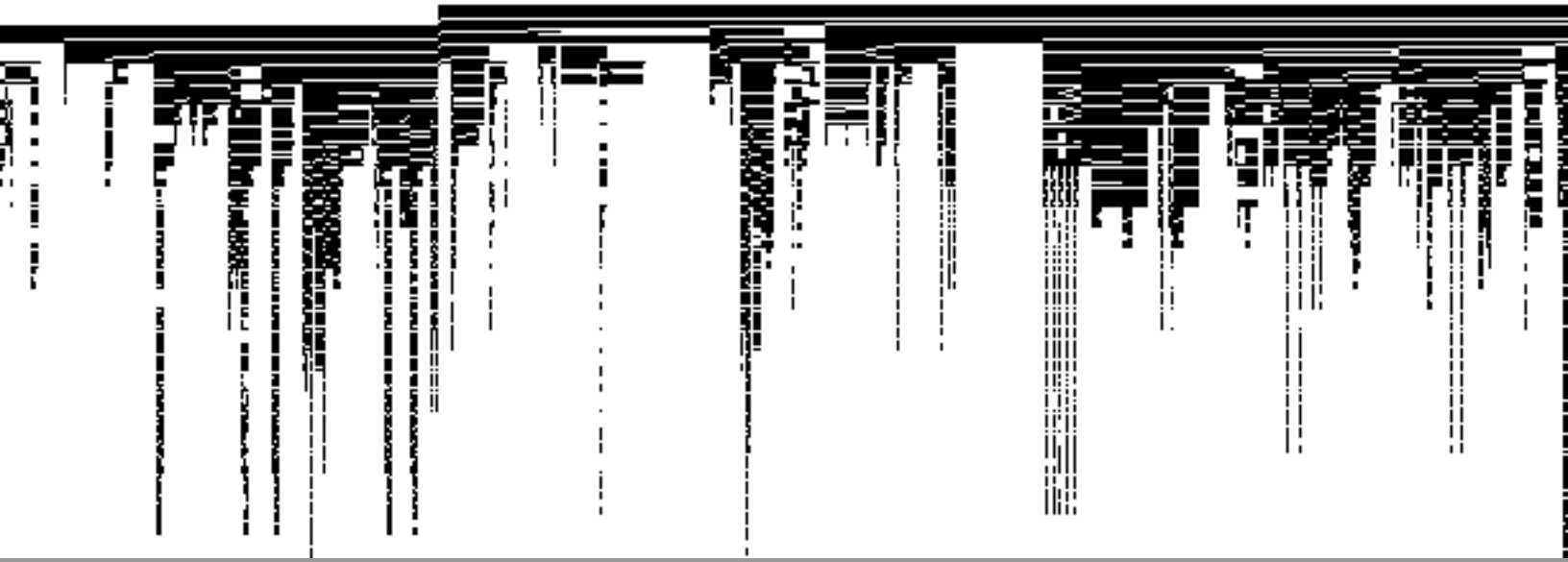


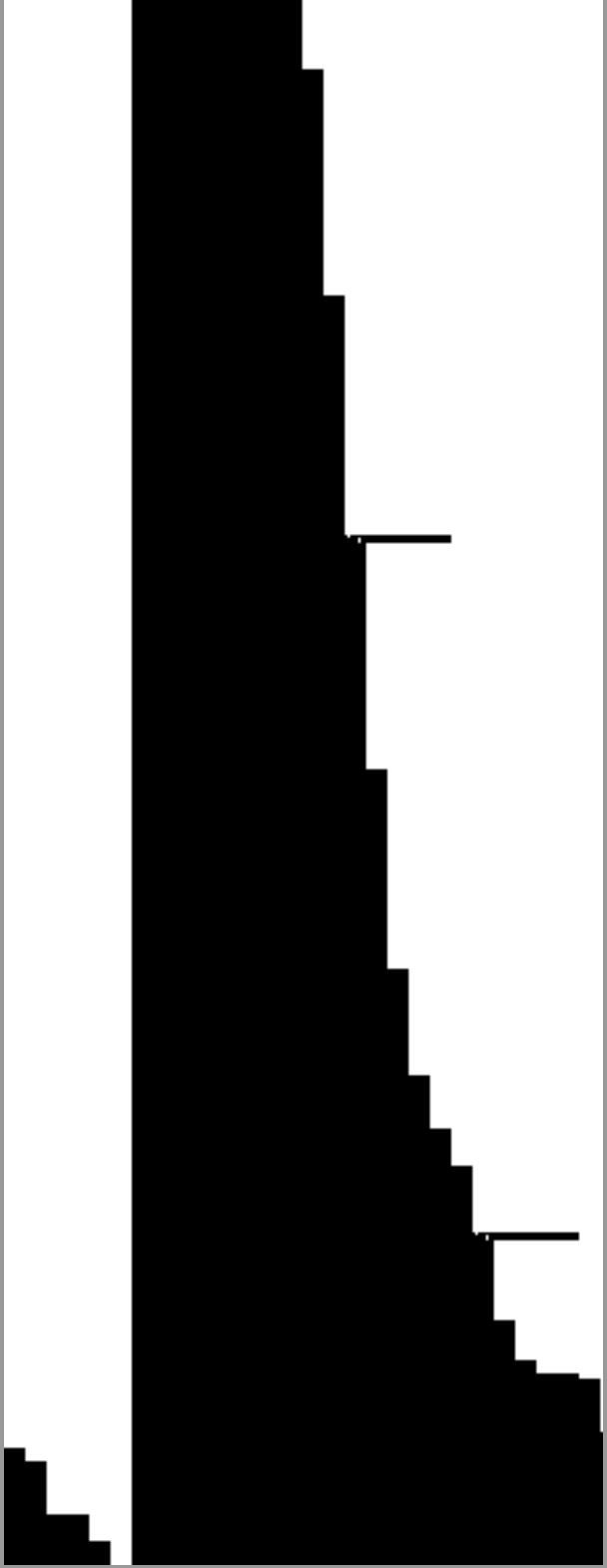












```
##
##
CHECKERBOARD'
(C)
2002
P.
STANLEY_MARBELL
#
PIP@GEMUSEHAKEN.ORG
#
IMPLEMENT
CHECKERBOARD;
INCLUDE
""SYS.M"";
INCLUDE
""DRAW.M"";
INCLUDE
""BUFIO.M"";
INCLUDE
""ARG.M"";
INCLUDE
""MATH.M"";
INCLUDE
""IMAGEFILE.M"";
INCLUDE
""STRING.M"";
SYS
:
SYS;
BUFIO
```

```
:
BUFIO;
DRAW
:
DRAW;
IMG
:
WIMAGEFILE;
ARG
:
ARG;
MATH
:
MATH;
STR
:
STRING;
IOBUF
:
IMPORT
BUFIO;
IMAGE'
POINT'
DISPLAY'
SCREEN'
RECT
:
IMPORT
DRAW;
BOXWIDTH'
BOXHEIGHT
:
INT
=
1;
NROWS'
NCOLS
:
INT
=
0;
LOGRITH'
COLORLDEPTH
:
INT
=
0;
MUNCHSTRINGS
:
INT
=
```

```
O;
CHECKERBOARD
:
MODULE
(
INIT,
:
FN(NIL
:
REF
DRAW_>CONTEXT'
ARGS
:
LIST
OF
STRING);
);
INIT(CTXT
:
REF
DRAW_>CONTEXT'
ARGS
:
LIST
OF
STRING)
(
ROWS
:
LIST
OF
STRING;
INPUTFILE'
OUTPUTFILE
:
STRING;
OUTFILEBUF'
INFILEBUF
:
REF
IOBUF;
COLORFACTOR
:=
DRAW_>BLACK;
SYS
=
LOAD
SYS
SYS_>PATH;
DRAW
=
```

```
LOAD
DRAW
DRAW_>PATH;
IMG
=
LOAD
WIMAGEFILE
WIMAGEFILE_>WRITEGIFPATH;
BUFIO
=
LOAD
BUFIO
BUFIO_>PATH;
ARG
=
LOAD
ARG
ARG_>PATH;
MATH
=
LOAD
MATH
MATH_>PATH;
STR
=
LOAD
STRING
STRING_>PATH;
ARG_>INIT(ARGS);
IMG_>INIT(BUFIO);
WHILE((C
:=
ARG_>OPT())
!=
0)
{
CASE
C
{
'I'
=>
INPUTFILE
=
ARG_>ARG();
'O'
=>
OUTPUTFILE
=
ARG_>ARG();
'W'
=>
```

```
BOXWIDTH
=
INT
ARG_>ARG();
'H'
=>
BOXHEIGHT
=
INT
ARG_>ARG();
'C'
=>
COLORFACTOR
=
1;
COLORLDEPTH
=
3;
'L'
=>
LOGRITH
=
1;
'M'
=>
MUNCHSTRINGS
=
1;
*
=>
USAGE();
}
}
IF
(ARG_>ARGV()
!=
NIL)
{
USAGE();
}
#
READ
IN
THE
'1'
AND
'0'S
INPUT:
IF
(INPUTFILE
==
```

```
NIL)
{
INPUTFILE
=
"STDIN";
INFILEBUF
=
BUFIO_>FOPEN(SYS_>FILDES(O
SYS_>OREAD);
}
ELSE
{
INFILEBUF
=
BUFIO_>OPEN(INPUTFILE'
SYS_>OREAD);
}
IF
(INFILEBUF
==
NIL)
{
SYS_>PRINT("COULD
NOT
OPEN
[%S]
FOR
READING
:
%R\N\N",
INPUTFILE);
EXIT;
}
WHILE
((BUF
:=
INFILEBUF.GETS('\N'))
!=
NIL)
{
(TMP'
NIL)
:=
SYS_>TOKENIZE(BUF'
""
\T");
NCOLS
=
MAX(NCOLS'
TMP);
ROWS
```

```
=
BUF::ROWS;
)
NROWS
=
LEN
ROWS;
ROWS
=
REVERSE(ROWS);
#
DRAW
THE
BOXES:
ZP
:=
POINT(0'
0);
BOXCOLOR
:=
0;
BOXRECT
:=
RECT(ZP'
ZP);
BOXIMAGE
:
REF
IMAGE;
DISPLAY
:
REF
DISPLAY;
IF
(CTXT
!=
NIL
&&
CTXT.DISPLAY
!=
NIL)
{
DISPLAY
=
CTXT.DISPLAY;
}
ELSE
{
DISPLAY
=
DISPLAY.ALLOCATE(NIL);
```

```
)
OUTIMAGE
:=
DISPLAY.NEWIMAGE(RECT(ZP'
(NCOLS*BOXWIDTH'
NROWS*BOXHEIGHT))'
COLORLDEPTH'
0'
DRAW_>WHITE);
FOR
(I
:=
 0;
 I
 <
 NROWS;
 I++)
 {
 (NIL'
 BITS)
 :=
 SYS_>TOKENIZE(HD
 ROWS'
 "
 \T");
 FOR
 (J
 :=
 0;
 BITS
 !=
 NIL;
 J++)
 {
 BOXCOLOR
 =
 MAX(MUNCH(HD
 BITS)'
 0);
 IF
 (LOGRITH
 !=
 0)
 {
 BOXCOLOR
 =
 INT
 MATH_>LOG1P(REAL
 BOXCOLOR);
 }
 BOXRECT
```

```
=
RECT((J*BOXWIDTH,
I*BOXHEIGHT),
((J+1)*BOXWIDTH,
(I+1)*BOXHEIGHT));
BOXIMAGE
=
DISPLAY.NEWIMAGE(BOXRECT
COLORDEPTH,
0,
BOXCOLOR*COLORFACTOR);
OUTIMAGE.DRAW(OUTIMAGE.R
BOXIMAGE,
NIL,
ZP);
BITS
=
TL
BITS;
}
ROWS
=
TL
ROWS;
}
#
OUTPUT
IMAGES
AS
A
GIF:
IF
(OUTPUTFILE
==
NIL)
{
OUTPUTFILE
=
"STDOUT";
OUTFILEBUF
=
1), BUFIO_>FOPEN(SYS_>FILDES
SYS_>ウ[illegible]);
}
ELSE
{
(THERE,
NIL)
:=
SYS_>STAT(OUTPUTFILE);
IF
```

```
        (THERE
        ==
        _1)
        {
        IF
        (SYS_>CREATE(OUTPUTFILE
        SYS_>OWRITE'
        8R644)
        ==
        NIL)
        {
        SYS_>PRINT("COULD
        NOT
        CREATE
        OUTPUT
        FILE
        [%S]
        :
        %R\N"'
        OUTPUTFILE);
        EXIT;
        }
        }
        OUTFILEBUF
        =
        BUFIO_>OPEN(OUTPUTFILE'
        SYS_>OWRITE);
        }
        IF
        (OUTFILEBUF
        ==
        NIL)
        {
        SYS_>PRINT("COULD
        NOT
        OPEN
        [%S]
        FOR
        WRITING
        :
        %R\N"'
        OUTPUTFILE);
        EXIT;
        }
UF'     IMG_>WRITEIMAGE(OUTFILE
        OUTIMAGE);
        RETURN;
        }
        USAGE()
        {
2)'     SYS_>FPRINT(SYS_>FILDES
```

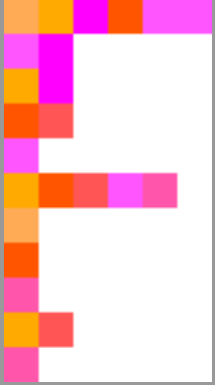
```
"USAGE:
CB
[_C]
[_L]
[_M]
[_I
INFILE]
[_O
OUTFILE]
[_W
BOXWIDTH]
[_H
BOXHEIGHT]\N");
EXIT;
}
MAX(A,
B
:
INT)
:
INT
{
IF
(A
>
B)
RETURN
A;
RETURN
B;
}
MUNCH(S
:
STRING)
:
INT
{
IF
(S
==
NIL)
{
RETURN
0;
}
IF
(!MUNCHSTRINGS)
{
RETURN
INT
S;
```

```
}
#
TRY
TO
GUESS
PRESENCE
OF
HEX
STRINGS
IN
OX
FORMAT
IF
(LEN
S
>=
3
&&
S[0]
==
'0'
&&
S[1]
==
'X')
{
(VAL'
GARBAGE)
:=
STR_>TOINT(S[2:]'
16);
RETURN
VAL
+
MUNCH(GARBAGE);
}
#
OTHERWISE'
SUM
UP
THE
CHARACTER
VALUES
OF
THE
#
INDIVIDUAL
CHARS:
VAL
:=
0;
```

```
FOR
(I
:=
0;
I
<
LEN
S;
I++)
{
VAL
+=
S[I];
}
RETURN
VAL;
}
REVERSE(F
:
LIST
OF
STRING)
:
LIST
OF
STRING
{
R
:
LIST
OF
STRING;
WHILE
(F
!=
NIL)
{
R
=
HD
F::R;
F
=
TL
F;
}
RETURN
R;
}
```

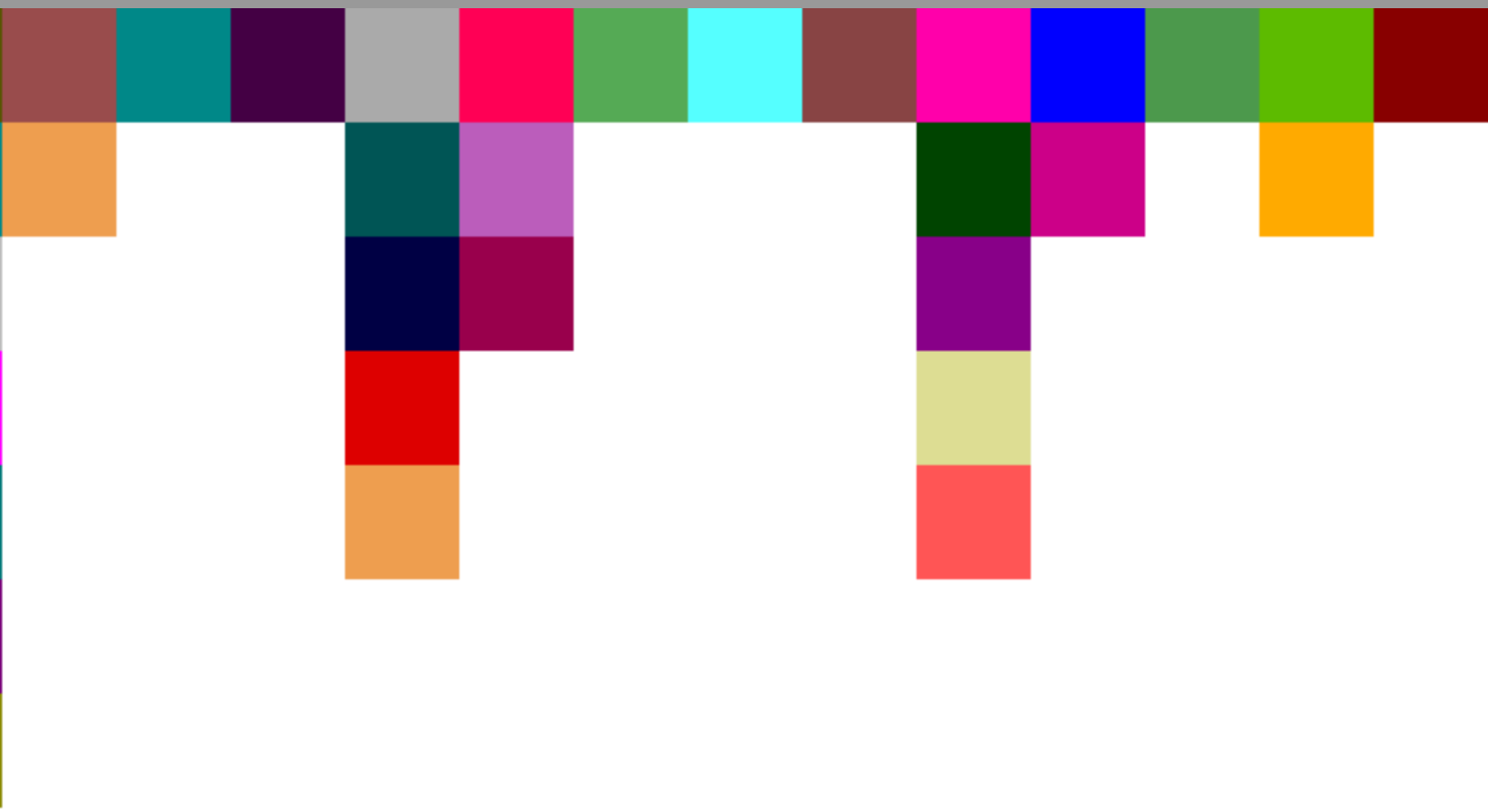
DATA
WANKS
RECURSIVELY

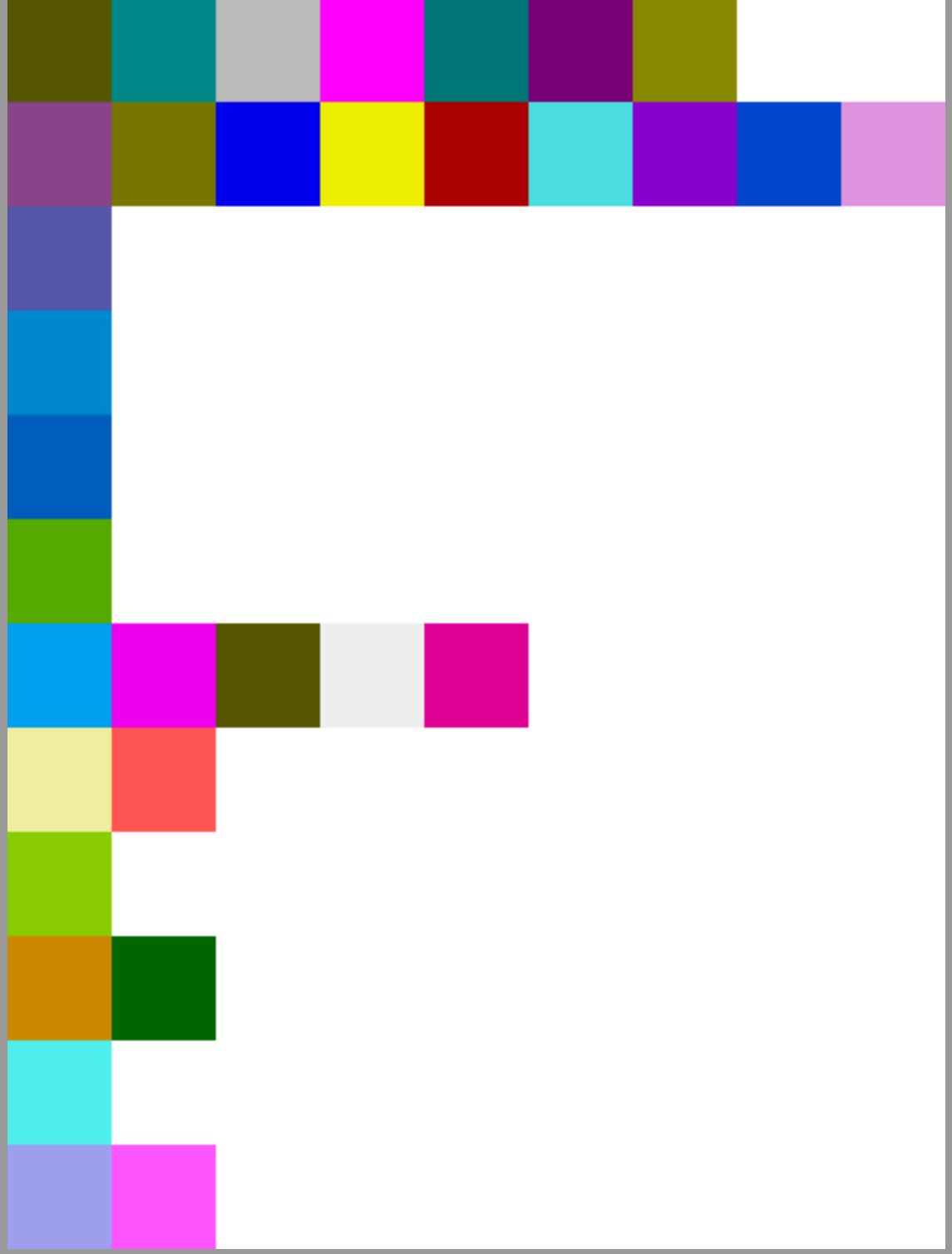
DOWNGRADING
FROM
_X
0
_Y
0
_W
11
_H
11
_D
1
TO:
_X
_1
_Y
_1
_W
10
_H
10
_D
2
GIF89A[illegible]

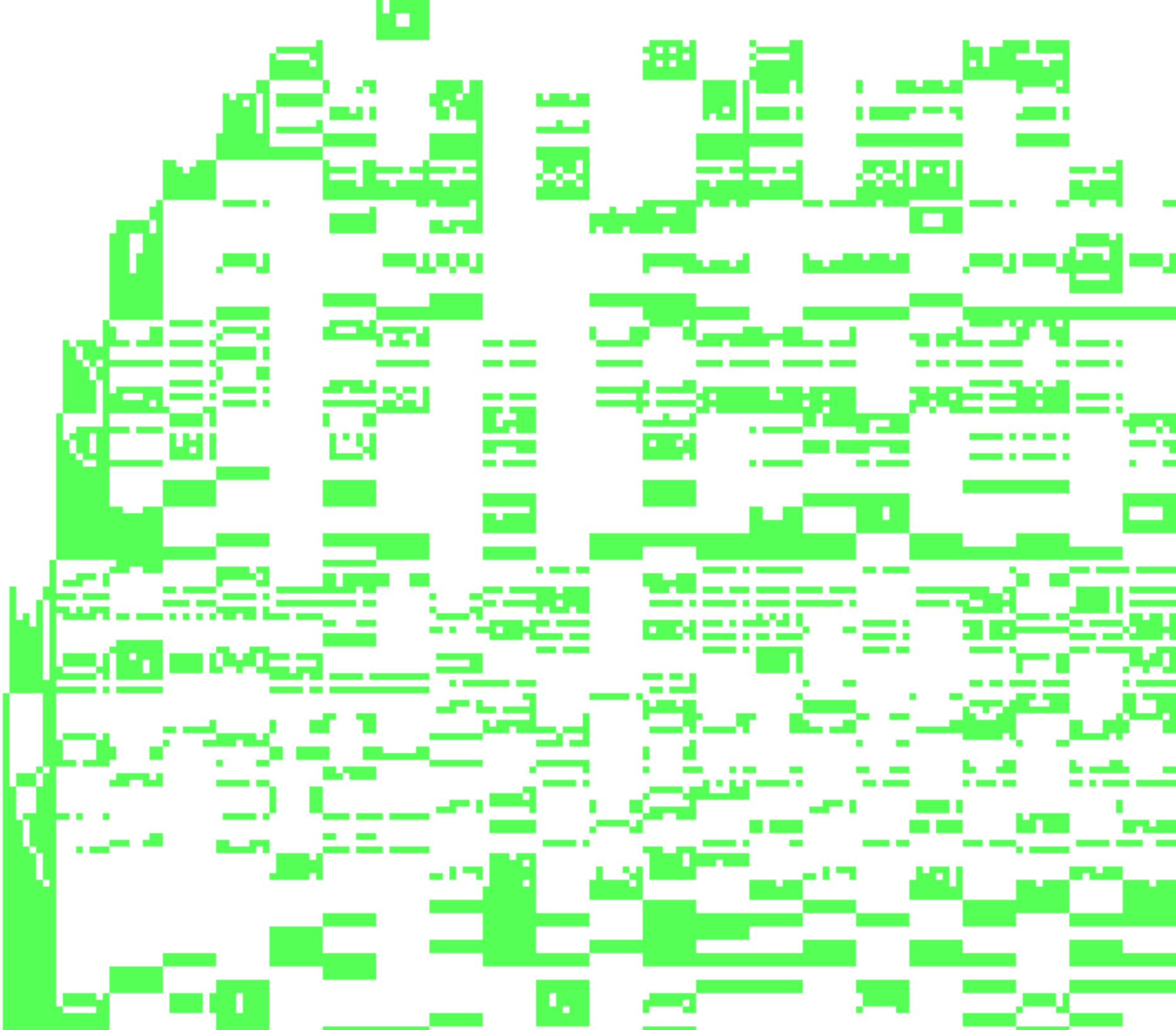


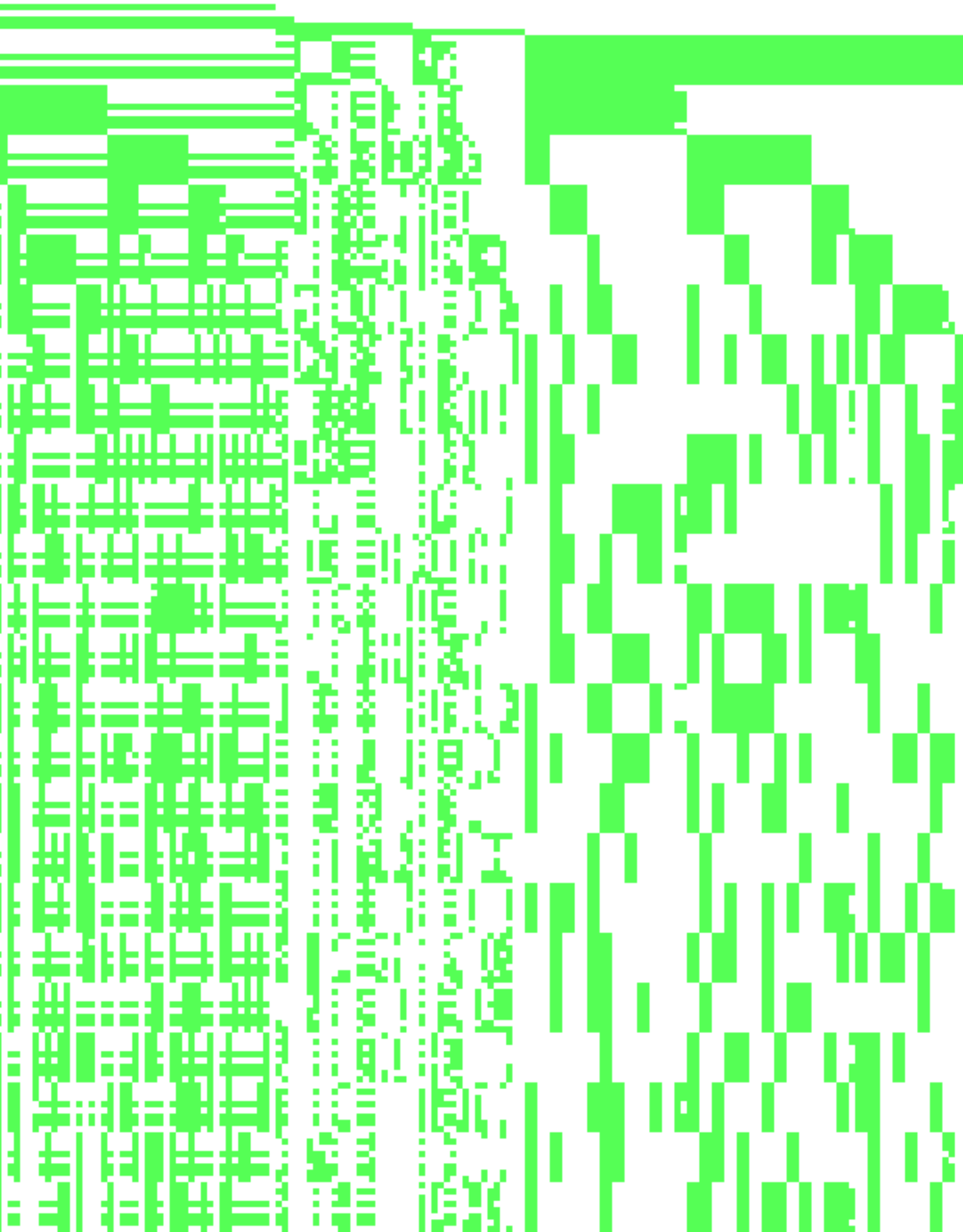
GIF89A*8U
CN4@I'R.Q)S#M

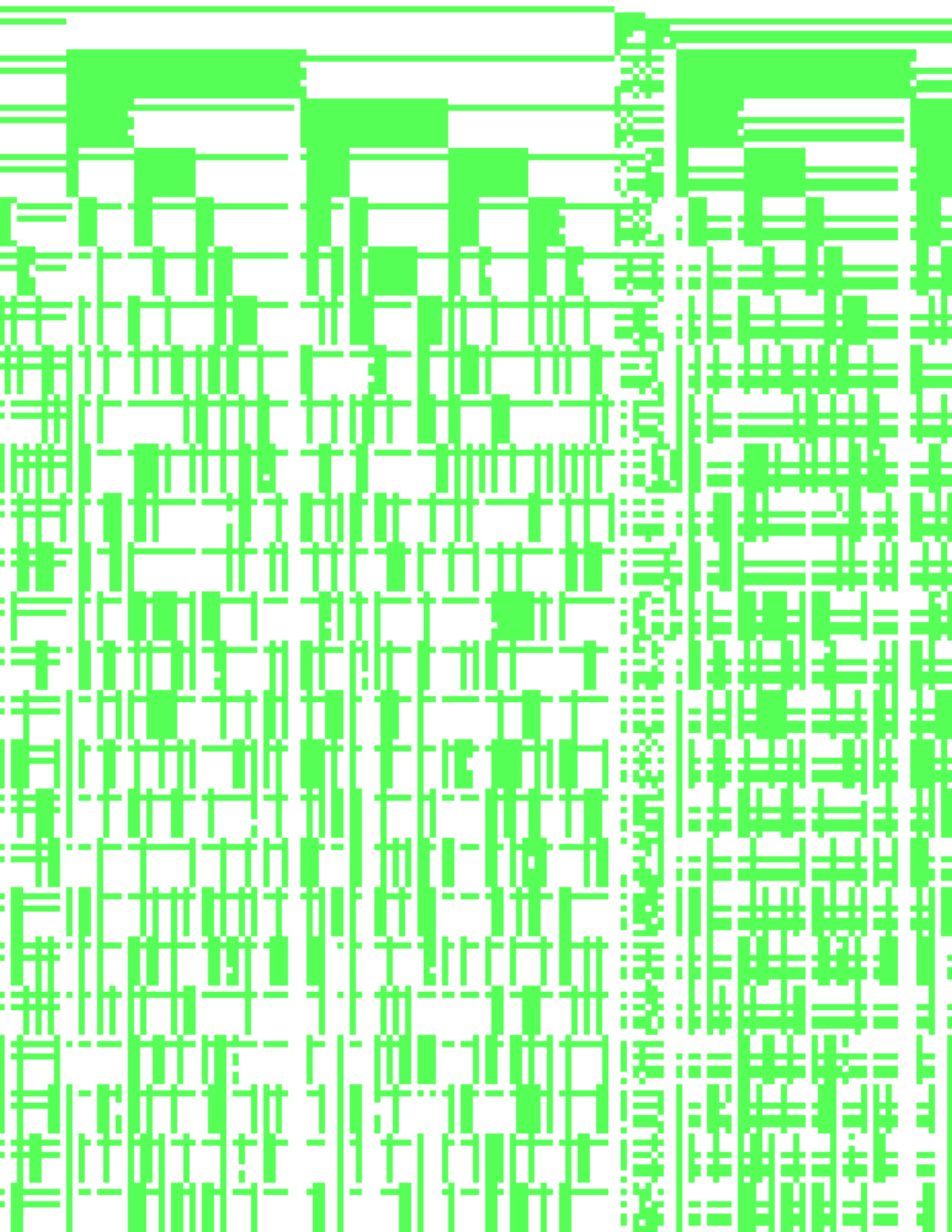
GIF89A
C I KS \ OC I 3S @
J H *J P J J X J ' K H J P K X _ +^ ⇕K _ 3K C M S ^

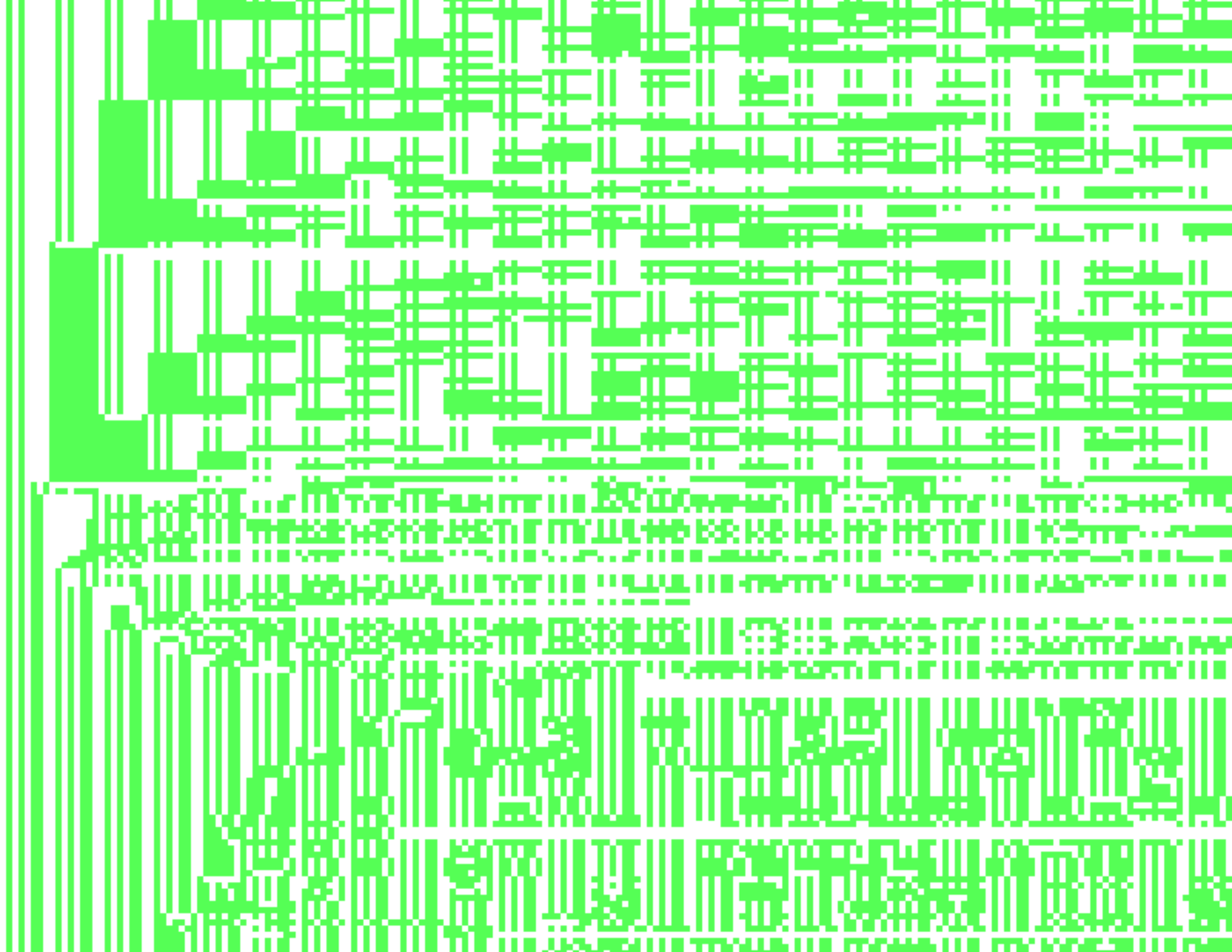


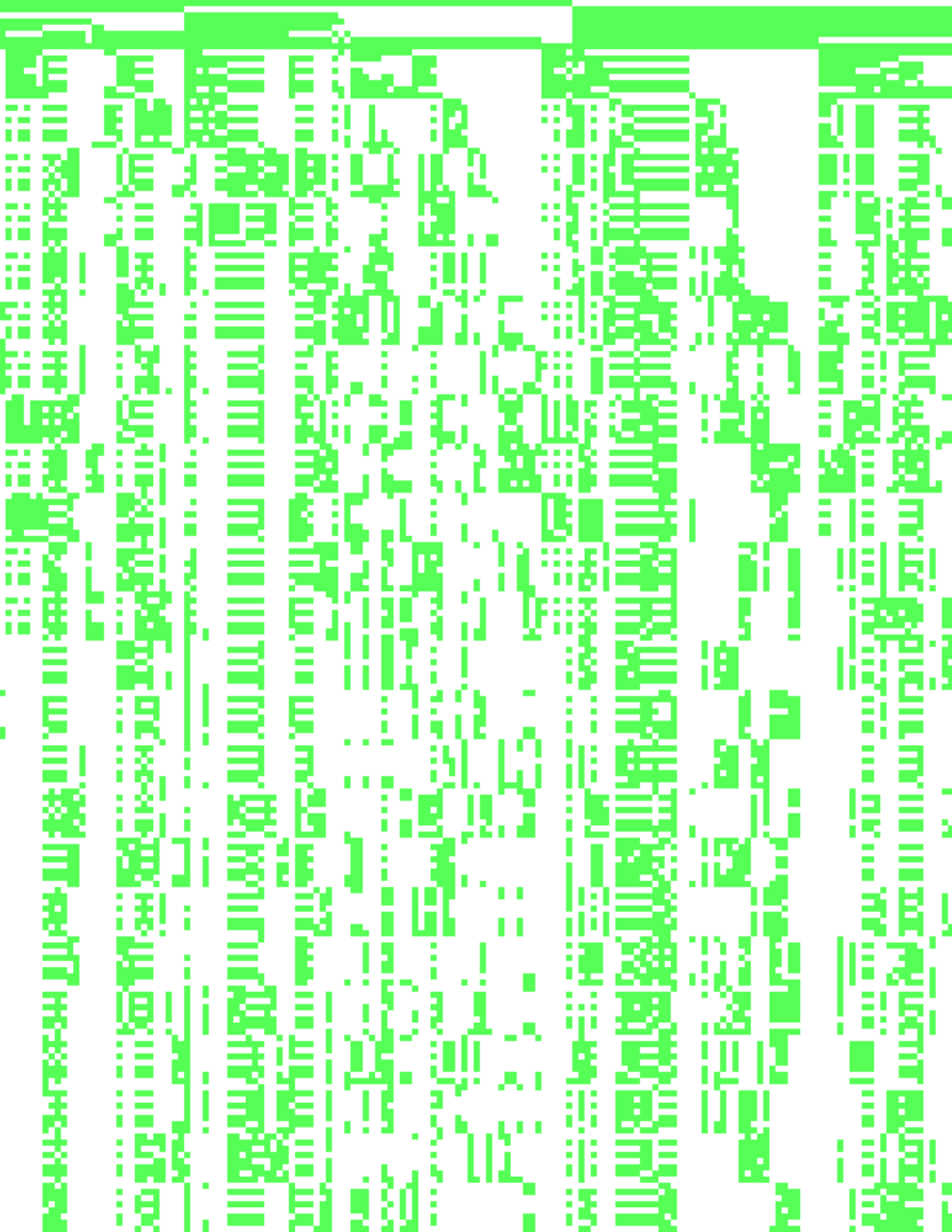


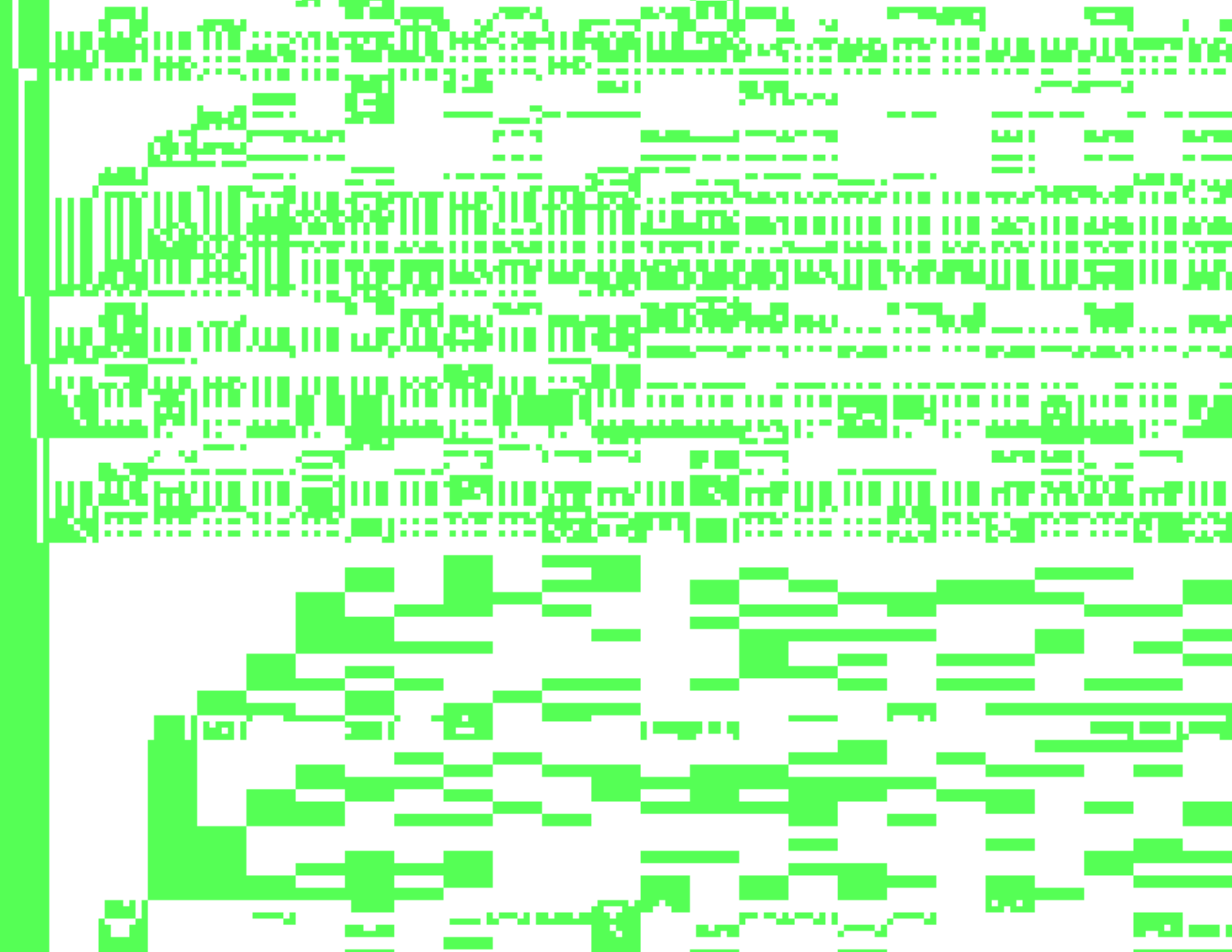


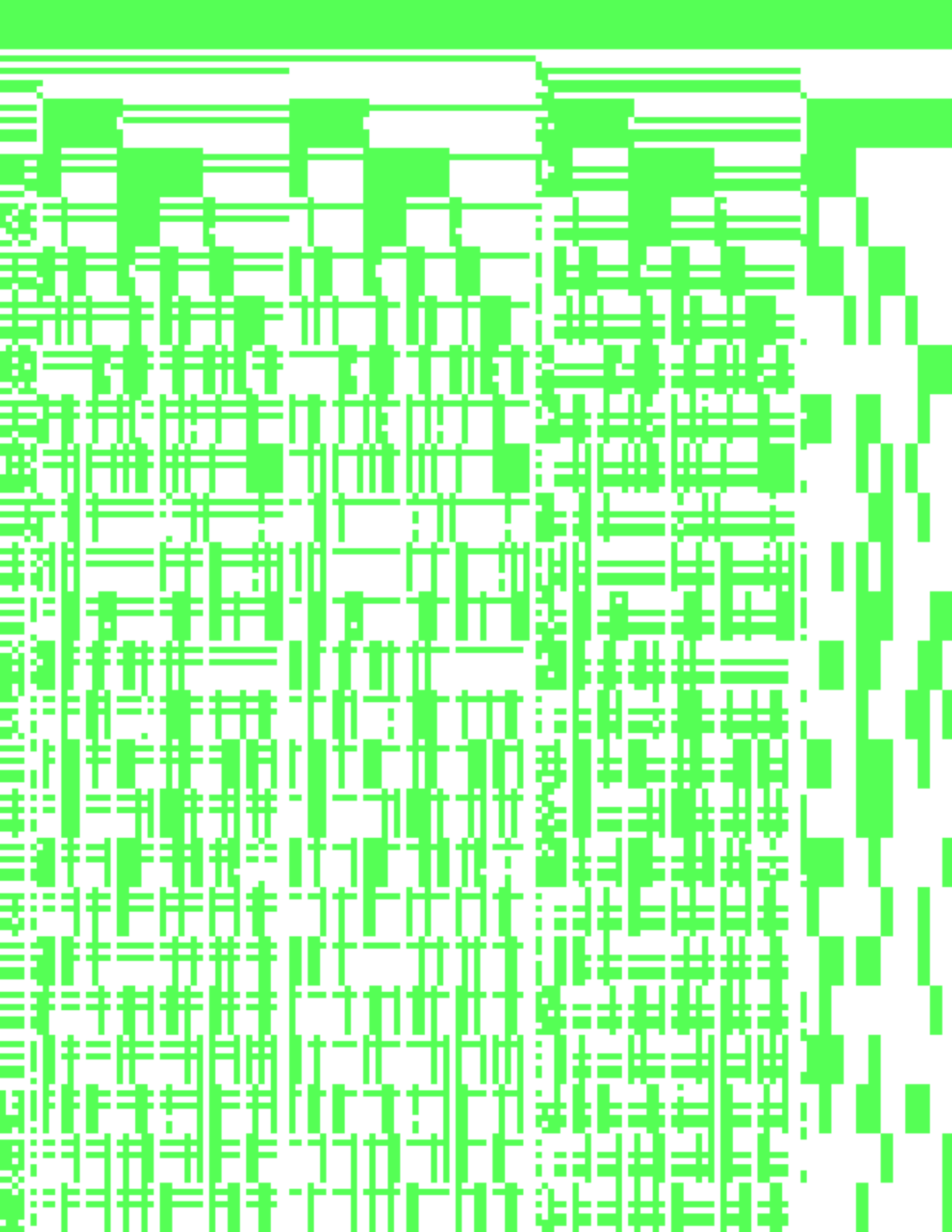












PIP@GEMUSEHAKEN.ORG