

Listing 1.

```
3 ' SIMPLE DISTRIBUTIONS
4 '
5 ' Brian James      April 1985
6 '
7 ' AMSTRAD BASIC
8 '
9 CLS
10 KEY 7 , "11st "
11 n=300
12 LOCATE 1,4
13 PRINT "Flat distribution"
```

```
14 FOR i= 1 TO n
15 x=RND*640
16 PLOT x,300
17 DRAW x,310
18 NEXT
19 '
20 LOCATE 1,10
21 PRINT "Hump-shaped"
22 FOR i= 1 TO n
23 x=(RND+RND+RND+RND)*160
24 PLOT x,200
```

```
25 DRAW x,210
26 NEXT
27 '
28 LOCATE 1,16
29 PRINT "Skewed distribution"
30 FOR i= 1 TO n
31 x=RND*8*640
32 PLOT x,100
33 DRAW x,110
34 NEXT
35 GOTO 9
```

## Listing 2

```
3 ' "PULSATING PSYCHEDELIC GALAXY"
4 '   (BEST SEEN IN DARK ROOM)
5 '
6 ' DEMONSTRATES TWO-DIMENSIONAL
7 ' HUMP DISTRIBUTIONS
8 '
9 ' Erian James   April 1985
10 '
11 ' AMSTRAD BASIC
```

```
12 MODE 1:INK,0,0
13 t$="Galaxy"
14 KEY 7,"LIST "
15 KEY 5,"WHILE 1:SAVE T$:WEND"
16 ON BREAK GOSUB 33
17 '
18 FOR i=1 TO 500
19   FOR c= 1 TO 3
20     x=c*30*(RND-RND) +320
21     y=c*30*(RND-RND) +200
22     PLOT x,y,c
23   NEXT
24 NEXT
25 '
26 FOR j=1 TO 3
27   FOR i=1 TO 50:NEXT
28   IF RND<0.6 THEN c=RND*25
29   INK j,c
30 NEXT
31 GOTO 26
32 '
33 INK 1,24:END
```