

10 REM	180 DATA 49,A0,21,3B,A0,CD,D1,BC	360 DATA 00,32,36,A0,CD,F6,A0,3E
20 REM .. ICON TOOLKIT Basic Loader ..	190 DATA C9,63,A0,C3,AA,A1,C3,A6	370 DATA 09,CD,1E,BB,C4,FC,A1,3A
30 REM	200 DATA A0,C3,A0,A1,C3,E1,A2,C3	380 DATA 36,A0,FE,00,20,07,3E,42
40 REM .. By Simon.T.Goodwin ..	210 DATA 0B,A3,C3,4B,A3,C3,35,A3	390 DATA CD,1E,BB,2B,E7,C1,3A,36
50 REM	220 DATA C3,8F,A0,49,43,4F,CE,50	400 DATA A0,02,CD,7F,A1,C9,3E,01
60 MEMORY 40999	230 DATA 4F,49,4E,54,45,D2,53,4F	410 DATA CD,1E,BB,C4,17,A1,3E,0B
70 count=0	240 DATA 55,52,43,C5,43,55,D4,50	420 DATA CD,1E,BB,C4,32,A1,3E,00
80 FOR n=41000 TO 42370	250 DATA 41,53,54,C5,54,43,4F,4F	430 DATA CD,1E,BB,C4,4D,A1,3E,02
90 READ a\$	260 DATA 52,C4,47,43,4F,4F,52,C4	440 DATA CD,1E,BB,C4,66,A1,C9,21
100 POKE n,VAL("&"a\$)	270 DATA 46,57,49,4E,44,4F,D7,DD	450 DATA 6E,02,ED,4B,2B,A0,ED,42
110 count=count+VAL("&"a\$)	280 DATA 6E,06,DD,66,07,DD,4E,02	460 DATA DB,CD,7F,A1,ED,5B,2B,A0
120 NEXT	290 DATA DD,46,04,DD,7E,00,32,A5	470 DATA 13,13,ED,53,2B,A0,CD,7F
130 IF count<>95046 THEN PRINT "Data error":END	300 DATA A0,CD,62,A3,C9,00,DD,5E	480 DATA A1,C9,21,02,00,ED,4B,2B
140 CALL 41023	310 DATA 06,DD,56,07,DD,6E,04,DD	490 DATA A0,ED,42,D0,CD,7F,A1,ED
150 DATA 00,00,00,00,00,00,00,00	320 DATA 66,05,DD,7E,02,DD,4E,00	500 DATA 5B,2B,A0,1B,1B,ED,53,2B
160 DATA 00,00,00,00,00,00,00,00	330 DATA DD,46,01,C5,ED,53,2B,A0	510 DATA A0,CD,7F,A1,C9,21,8C,01
170 DATA 00,10,27,00,00,00,00,01	340 DATA 22,2A,A0,32,34,A0,CD,E1	520 DATA ED,4B,2A,A0,ED,42,DB,CD
	350 DATA BB,32,35,A0,CD,7F,A1,3E	

530 DATA 7F,A1,2A,2A,A0,23,23,22
540 DATA 2A,A0,CD,7F,A1,C9,21,10
550 DATA 00,ED,4B,2A,A0,ED,42,D0
560 DATA CD,7F,A1,2A,2A,A0,2B,2B
570 DATA 22,2A,A0,CD,7F,A1,C9,3A
580 DATA 34,A0,CD,DE,BB,ED,5B,2B
590 DATA A0,2A,2A,A0,CD,C0,BB,3E
600 DATA 05,CD,5A,BB,3E,5E,CD,5A
610 DATA BB,3A,35,A0,CD,DE,BB,C9
620 DATA DD,6E,00,DD,66,01,22,39
630 DATA A0,C9,DD,7E,00,47,21,7C
640 DATA A3,11,04,00,AF,ED,52,19

650 DATA 10,FD,DD,5E,04,DD,56,05
660 DATA DD,4E,02,DD,46,03,7B,77
670 DATA 23,7A,77,23,79,77,23,78
680 DATA 77,C5,EB,11,02,00,CD,A9
690 DATA A2,EB,E1,CB,3C,CB,1D,CD
700 DATA 1D,BC,E5,DD,7E,00,47,2A
710 DATA 39,A0,11,40,00,AF,ED,52
720 DATA 19,10,FD,EB,E1,01,10,04
730 DATA CD,91,A2,C9,21,7C,A3,CD
740 DATA 33,A2,3E,01,32,38,A0,06
750 DATA FF,C5,E5,ED,4B,28,A0,ED
760 DATA 5B,2A,A0,CD,4B,A2,E1,C1

770 DATA 3A,37,A0,FE,00,20,0D,CD
780 DATA 33,A2,3A,38,A0,3C,32,3B
790 DATA A0,10,DE,C9,3A,3B,A0,32
800 DATA 36,A0,C9,7E,5F,23,7E,57
810 DATA ED,53,30,A0,23,7E,5F,23
820 DATA 7E,57,ED,53,32,A0,23,C9
830 DATA AF,32,37,A0,3A,30,A0,6F
840 DATA 3A,31,A0,67,ED,42,7C,FE
850 DATA 00,20,07,7D,FE,14,D0,18
860 DATA 08,C9,FE,FF,DB,7D,FE,EB
870 DATA DB,3A,32,A0,6F,3A,33,A0

	1200 DATA 09,30,04,01,50,C0,09,C1	1530 DATA 00,00,00,00,00,00,00,00
	1210 DATA 0D,20,E7,C9,00,00,00,00	1540 DATA 00,00,00,00,00,00,00,00
	1220 DATA 00,00,00,00,00,00,00,00	1550 DATA 00,00,00,00,00,00,00,00
880 DATA 67,42,4B,ED,42,7C,FE,00	1230 DATA 00,00,00,00,00,00,00,00	1560 DATA 00,00,00,00,00,00,00,00
890 DATA 20,0A,7D,FE,1B,00,3E,01	1240 DATA 00,00,00,00,00,00,00,00	1570 DATA 00,00,00,00,00,00,00,00
900 DATA 32,37,A0,C9,FE,FF,0B,7D	1250 DATA 00,00,00,00,00,00,00,00	1580 DATA 00,00,00,00,00,00,00,00
910 DATA FE,E7,0B,3E,01,32,37,A0	1260 DATA 00,00,00,00,00,00,00,00	1590 DATA 00,00,00,00,00,00,00,00
920 DATA C9,C5,E5,1A,77,23,13,10	1270 DATA 00,00,00,00,00,00,00,00	1600 DATA 00,00,00,00,00,00,00,00
930 DATA FA,E1,01,00,0B,09,30,04	1280 DATA 00,00,00,00,00,00,00,00	1610 DATA 00,00,00,00,00,00,00,00
940 DATA 01,50,C0,09,C1,0D,20,E9	1290 DATA 00,00,00,00,00,00,00,00	1620 DATA 00,00,00,00,00,00,00,00
950 DATA C9,7A,2F,57,7B,2F,5F,13	1300 DATA 00,00,00,00,00,00,00,00	1630 DATA 00,00,00,00,00,00,00,00
960 DATA E5,AF,67,6F,E3,7A,B3,20	1310 DATA 00,00,00,00,00,00,00,00	1640 DATA 00,00,00,00,00,00,00,00
970 DATA 02,E1,C9,06,11,CB,15,CB	1320 DATA 00,00,00,00,00,00,00,00	1650 DATA 00,00,00,00,00,00,00,00
980 DATA 14,38,10,10,FB,1B,14,E3	1330 DATA 00,00,00,00,00,00,00,00	1660 DATA 00,00,00,00,00,00,00,00
990 DATA E5,19,30,01,E3,E1,E3,CB	1340 DATA 00,00,00,00,00,00,00,00	1670 DATA 00,00,00,00,00,00,00,00
1000 DATA 15,CB,14,E3,CB,15,CB,14	1350 DATA 00,00,00,00,00,00,00,00	1680 DATA 00,00,00,00,00,00,00,00
1010 DATA E3,10,EC,D1,CB,2A,CB,1B	1360 DATA 00,00,00,00,00,00,00,00	1690 DATA 00,00,00,00,00,00,00,00
1020 DATA C9,DD,6E,06,DD,66,07,DD	1370 DATA 00,00,00,00,00,00,00,00	1700 DATA 00,00,00,00,00,00,00,00
1030 DATA 5E,04,DD,56,05,DD,4E,00	1380 DATA 00,00,00,00,00,00,00,00	1710 DATA 00,00,00,00,00,00,00,00
1040 DATA DD,46,02,C5,E5,7E,12,23	1390 DATA 00,00,00,00,00,00,00,00	1720 DATA 00,00,00,00,00,00,00,00
1050 DATA 13,10,FA,E1,01,00,0B,09	1400 DATA 00,00,00,00,00,00,00,00	1730 DATA 00,00,00,00,00,00,00,00
1060 DATA 30,04,01,50,C0,09,C1,0D	1410 DATA 00,00,00,00,00,00,00,00	1740 DATA 00,00,00,00,00,00,00,00
1070 DATA 20,E9,C9,DD,6E,06,DD,66	1420 DATA 00,00,00,00,00,00,00,00	1750 DATA 00,00,00,00,00,00,00,00
1080 DATA 07,DD,5E,04,DD,56,05,DD	1430 DATA 00,00,00,00,00,00,00,00	1760 DATA 00,00,00,00,00,00,00,00
1090 DATA 4E,00,DD,46,02,C5,E5,1A	1440 DATA 00,00,00,00,00,00,00,00	1770 DATA 00,00,00,00,00,00,00,00
1100 DATA 77,23,13,10,FA,E1,01,00	1450 DATA 00,00,00,00,00,00,00,00	1780 DATA 00,00,00,00,00,00,00,00
1110 DATA 0B,09,30,04,01,50,C0,09	1460 DATA 00,00,00,00,00,00,00,00	1790 DATA 00,00,00,00,00,00,00,00
1120 DATA C1,0D,20,E9,C9,DD,6E,02	1470 DATA 00,00,00,00,00,00,00,00	1800 DATA 00,00,00,00,00,00,00,00
1130 DATA DD,66,03,DD,5E,04,DD,56	1480 DATA 00,00,00,00,00,00,00,00	1810 DATA 00,00,00,00,00,00,00,00
1140 DATA 05,CB,3C,CB,1D,CD,1D,BC	1490 DATA 00,00,00,00,00,00,00,00	1820 DATA 00,00,00,00,00,00,00,00
1150 DATA 1B,0C,C9,DD,6E,02,DD,66	1500 DATA 00,00,00,00,00,00,00,00	1830 DATA 00,00,00,00,00,00,00,00
1160 DATA 04,2D,25,CB,1A,BC,DD,5E	1510 DATA 00,00,00,00,00,00,00,00	1840 DATA 00,00,00,00,00,00,00,00
1170 DATA 00,DD,56,01,7D,12,13,7C	1520 DATA 00,00,00,00,00,00,00,00	1850 DATA 00,00,00,00,00,00,00,00
1180 DATA 12,C9,C5,E5,3A,A5,A0,77		1860 DATA 00,00,00,00,00,00,00,00
1190 DATA 23,13,10,FB,E1,01,00,0B		

```

10 REM .....
.....
20 REM .....      I C O N D
E S I G N E R      . ....
30 REM .....      by Simon.
T. Goodwin        .....
40 REM .....
.....
50 MODE 1
60 GOSUB 860:GOSUB 660
70 TAG
80 GOSUB 270
90 WHILE 1
100 IF INKEY(1)=0 AND x<240 THEN GOSUB 270
70:x=x+16:a=a+1:GOSUB 270
110 IF INKEY(8)=0 AND x>0 THEN GOSUB 270
:x=x-16:a=a-1:GOSUB 270
120 IF INKEY(2)=0 AND y>144 THEN GOSUB 270
70:y=y-16:b=b+1:GOSUB 270
130 IF INKEY(0)=0 AND y<374 THEN GOSUB 270
70:y=y+16:b=b-1:GOSUB 270
140 IF INKEY(47)=0 THEN IF ERA=1 THEN GOSUB 300:ELSE IF ERA=0 AND TEST(x+4,y-8)=0 THEN PLOT -5,-5,col:GOSUB 300
150 IF INKEY(5)=0 THEN COL=COL+1:IF COL=4 THEN COL=0:TAGOFF:LOCATE 10,20:PRINT "PEN.":COL:TAG:ELSE TAGOFF:LOCATE 10,20:PRINT "PEN.":COL:TAG
160 IF INKEY(13)=0 THEN GOSUB 330
170 IF INKEY(14)=0 THEN FOR n=1 TO 50:NEXT n:IF ERA=1 THEN ERA=0:SOUND 1,100,20:ELSE ERA=1:SOUND 1,100,20
180 IF INKEY(12)=0 THEN GOSUB 400
190 IF INKEY(4)=0 THEN GOSUB 500

```

```

200 IF INKEY(20)=0 THEN GOSUB 920
210 IF INKEY(10)=0 THEN GOSUB 1140
220 IF INKEY(11)=0 THEN GOSUB 1300
230 FOR qw=1 TO 100:NEXT qw
240 WEND
250 END
260 :
270 PLOT -5,-5,3:MOVE x,y:PRINT "^":RETURN
280 RETURN
290 :
300 IF ERA=0 THEN MOVE X,Y:PRINT CHR$(143):Q(sp,B,A)=COL:PLOT 542+(A*2),94+(Y/16)*2+(SP*48),COL:RETURN
310 IF ERA=1 THEN Q(sp,B,A)=0:TAGOFF:LOCATE 1,1:PRINT CHR$(23):CHR$(0):PLOT 542+(A*2),94+(Y/16)*2+(SP*48),0:LOCATE 1,1:PRINT CHR$(23):CHR$(1):TAG:F=TEST(X+4,Y-8):PLOT -5,-5,F:MOVE X,Y:PRINT CHR$(143):RETURN
320 :
330 SP=SP+1:IF SP=6 THEN SP=1
340 TAGOFF:LOCATE 2,20:PRINT "ICON.":STR$(SP)::PRINT CHR$(23):CHR$(0):WINDOW 1,16,1,17:CLS:WINDOW 1,20,1,25
350 t=17:TAGOFF:PRINT:FOR u=16 TO 1 STEP -1:LOCATE 1,t:t=t-1:FOR i=1 TO 16 : PEN q(sp,u,i):PRINT CHR$(143)::NEXT i,u:
360 GOSUB 800:GOSUB 750:PRINT CHR$(23):CHR$(1):TAG:GOSUB 270
370 PEN 1
380 RETURN
390 :

```

```

400 GOSUB 1120:FOR n=1 TO 255:CALL &BB1B:NEXT:TAGOFF:WINDOW 21,39,22,22:INPUT "Filename":f$:CLS:WINDOW 1,40,1,25:TAG:IF f$="" OR LEN(f$)>8 THEN 400
410 GOSUB 1050
420 H=0
430 FOR screen=50260 TO 49300 STEP -240
440 FOR N=0 TO 1:FOR C=0 TO 7:FOR g=0 TO 3:POKE 30000+H,PEEK(screen+g+(2048*C)+(N*80)):H=H+1:NEXT g,C,N
450 NEXT
460 SAVE "!"+f$,b,30000,640
470 PAPER 0
480 RETURN
490 :
500 FOR n=1 TO 255:CALL &BB1B:NEXT n:TAGOFF:WINDOW 21,39,22,23:INPUT "Filename":f$:CLS:WINDOW 1,40,1,25:TAG:IF f$="" OR LEN(f$)>8 THEN 500
510 GOSUB 1050
520 PAPER 0
530 MEMORY 29999:LOAD "!"+f$,30000
540 H=0
550 FOR screen=50260 TO 49300 STEP -240
560 FOR N=0 TO 1:FOR C=0 TO 7:FOR g=0 TO 3:POKE screen+g+(2048*C)+(N*80),PEEK(30000+H):H=H+1:NEXT g,C,N
570 NEXT
580 FOR n=1 TO 5
590 FOR u=1 TO 16 STEP 1:FOR i=1 TO 16 STEP 1:q(n,i,u)=TEST(542+(u*2),144-(i*2)+(n*48)):NEXT i:NEXT u
600 NEXT n
610 t=17:TAGOFF:PRINT:FOR u=16 TO 1 STEP

```

```

-1:LOCATE 1,t::t=t-1:FOR i=1 TO 16 STEP
1
620 PEN q(sp,u,i):PRINT CHR$(143)::NEXT
i,u
630 PEN 1
640 TAGOFF:PRINT CHR$(23);CHR$(0):GOSUB
660:TAG:GOSUB 270:TAGOFF:PRINT CHR$(23);
CHR$(1):TAG:RETURN
650 :
660 :
670 GOSUB 800
680 PLOT 330,128:DRAW 638,128:DRAW 638,3
88:DRAW 330,388:DRAW 330,128
690 PLOT 1,100:DRAWR 638,0:DRAWR 0,-100:
DRAWR -638,0:DRAWR 0,100
700 PLOT 338,134:DRAWR 170,0:DRAWR 0,248
:DRAWR -170,0:DRAWR 0,-248
710 TAGOFF:LOCATE 23,4:PRINT "M E N U":T
AG
720 RESTORE:TAG:FOR n=20*16 TO 11*16 STE
P -20:READ a#:MOVE (22*16)-8,n:PRINT a#:
:NEXT:TAGOFF
730 GOSUB 1050
740 TAGOFF
750 FOR n=22 TO 24:PEN 1:LOCATE 3,n:PRIN
T "PEN";n-21;" ":";:PEN n-21:PRINT STRING$(
3,CHR$(143)):PEN 1:NEXT n:PEN 1
760 LOCATE 2,20:PRINT "ICON.":sp;" PEN."
;col
770 RETURN
780 :
790 :
800 PLOT -5,-5,1:FOR n=128 TO 263+135 ST
EP 16:PLOT 1,n:DRAWR 16*16,0:NEXT n
810 FOR n=1 TO 17*16 STEP 16:PLOT n,128:
DRAWR 0,8*32:NEXT n
820 RETURN
830 :
840 :
850 GOSUB 660
860 CDL=1:SP=1:DIM q(5,16,16),m(16,16):x
=160:y=158:a=11:b=15

```

```

870 PRINT CHR$(23);CHR$(1)
880 BORDER 13:INK 0,13:INK 1,0:INK 2,4:1
NK 3,19
890 RETURN
900 :
910 :
920 WINDOW 20,39,22,22:CLS
920 WINDOW 20,39,22,22:CLS
930 penn=1:inkk=1
940 FOR n=1 TO 255:CALL &BB1B:NEXT:
950 TAGOFF
960 INPUT "PEN NO.":penn
970 IF penn>3 OR PENn<0 THEN 960
980 INPUT "INK no.":inkk
990 IF inkk>26 OR inkk<0 THEN 980
1000 INK penn,inkk
1010 WINDOW 1,40,1,25
1020 TAG
1030 GOSUB 1050
1040 RETURN
1050 TAGOFF:PLOT -5,-5,1:PRINT CHR$(23);
CHR$(0):TAG:FOR n=90 TO 16 STEP -16:MOVE
19*16,n:PRINT STRING$(20,CHR$(207));:NE
XT:TAGOFF:PRINT CHR$(23);CHR$(1);
1060 PRINT CHR$(22);CHR$(1);
1070 LOCATE 23,21:PRINT "I C O N";
1080 LOCATE 23,23:PRINT "D E S I G N E R
";
1090 PRINT CHR$(22);CHR$(0);
1100 TAG
1110 RETURN
1120 TAGOFF:PLOT -5,-5,1:PRINT CHR$(23);
CHR$(0):TAG::FOR n=90 TO 16 STEP -16:MOV
E 19*16,n:PRINT STRING$(20,CHR$(207));:N
EXT:TAGOFF:PRINT CHR$(23);CHR$(1)::TAG:R
ETURN
1130 DATA f1..Next,f2..Erase,f3..Pen,f4.
.Inks,f5..Save,f6..Load,f7..Mirror,f8..I
nv
1140 FOR n=1 TO 16:FOR i=1 TO 16:m(n,i)=
q(sp,n,i):NEXT I,N
1150 FOR N=1 TO 16

```

```

1160 z=17
1170 FOR I=1 TO 16 STEP 1
1180 z=z-1
1190 m(n,1)=q(sp,n,z)
1200 NEXT
1210 NEXT
1220 FOR n=1 TO 16 :FOR i=1 TO 16 STEP 1
:q(sp,n,i)=m(n,i):NEXT I,N
1230 t=17:TAGOFF:PRINT:FOR u=16 TO 1 STE
P -1:LOCATE 1,t::t=t-1:FOR i=1 TO 16 STE
P 1 : PEN q(sp,u,i):PRINT CHR$(143)::NEX
T i:PRINT " ":";:NEXT u:PEN 1:
1240 LOCATE 1,1:PRINT "
";
1250 GOSUB 800:GOSUB 750:TAG:GOSUB 270
1260 TAGOFF:PRINT CHR$(23);CHR$(0);
1270 FOR u=1 TO 16 STEP 1:FOR i=1 TO 16
STEP 1:PLOT 542+(u*2),144-(i*2)+(sp*48),
q(sp,i,u):NEXT i:NEXT u
1280 PRINT CHR$(23);CHR$(1)::TAG
1290 RETURN
1300 FOR n=1 TO 16
1310 FOR i=1 TO 16
1320 IF q(sp,n,i)=0 THEN q(sp,n,i)=1 ELS
E q(sp,n,i)=0
1330 NEXT i,n
1340 t=17:TAGOFF:PRINT:FOR u=16 TO 1 STE
P -1:LOCATE 1,t::t=t-1:FOR i=1 TO 16 STE
P 1 : PEN q(sp,u,i):PRINT CHR$(143)::NEX
T i:PRINT " ":";:NEXT u:PEN 1:
1350 LOCATE 1,1:PRINT "
";
1360 GOSUB 800:GOSUB 750:TAG:GOSUB 270
1370 TAGOFF:PRINT CHR$(23);CHR$(0);
1380 FOR u=1 TO 16 STEP 1:FOR i=1 TO 16
STEP 1:PLOT 542+(u*2),144-(i*2)+(sp*48),
q(sp,i,u):NEXT i:NEXT u
1390 PRINT CHR$(23);CHR$(1)::TAG
1400 RETURN

```