

IMAGEWRITER COLOR CONTROL

Use this AppleWorks pre-boot program to make your ImageWriter II print one of seven different colors.

If black-and-white text leaves you cold, take heart. Color Control — hot off the presses — lets you turn cut-and-dried text into colorful copy. With a color ribbon, the ImageWriter II can print in any of six colors; the problem is getting your programs to output these colors. AppleWorks has no color commands, so you're on your own if you want to print in color. With Color Control, you can select a printing color before you continue booting AppleWorks.

CREATING A COLOR APPLEWORKS DISK

First, you should use the Copy option from Filer or the System Utilities to copy both sides (Startup and Program) of your AppleWorks disk. Save the original and use the copy for the modifications. In addition, you should have on hand a disk with BASIC.SYSTEM and COLOR.CONTROL. Follow these steps to produce your modified version of AppleWorks:

1. Copy COLOR.CONTROL and BASIC.SYSTEM to the AppleWorks Startup disk.
2. Unlock (or Alter Write Protection from Filer) the file APLWORKS.SYSTEM and rename it PROGRAM.
3. Rename COLOR.CONTROL as STARTUP.
4. Leave the Program side of your AppleWorks disk as it is.

Thereafter, when you boot the AppleWorks Startup disk, it will offer you a choice of printing colors. You can select the colors by number or by name, or you can type 'help' to get instructions or enter a question mark (?) to get a list of colors. Once you have entered a color, AppleWorks is automatically loaded.

ENTERING THE PROGRAMS

Enter the program shown in Listing 1 and save it with the command:

SAVE COLOR.CONTROL

For help with entering *Nibble* listings, see the Typing Tips section of this issue.

HOW IT WORKS

The ImageWriter II has seven different color commands — one for each color. Each consists of an Escape character (\$1B or 27), followed by K and a number from 0 to 6. You can see how the num-

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bers correspond by examining lines 420-480 of Listing 1. The function of the program is to send the proper Escape sequence to the printer — a very simple procedure, accomplished in line 580 of Listing 1. The rest of the program is involved with the user interface and error trapping.

The renaming process described to set up the disk makes BASIC.SYSTEM the first system file on the disk. During the boot process, BASIC.SYSTEM is loaded in and the program STARTUP (the new name for COLOR.CONTROL) is executed. When the color command sequence has been sent, APLWORKS.SYSTEM is executed under its new name, PROGRAM.

LISTING 1: COLOR.CONTROL

```

10 REM *****
20 REM + COLOR.CONTROL +
30 REM + BY BRYAN A. THORELL +
40 REM + COPYRIGHT (C) 1987 +
50 REM + BY MICROSPARC, INC. +
60 REM + CONCORD, MA 01742 +
70 REM *****
80 DS = CHR$(4): REM  PRODOS COMMAND CHARA
   CTER
90 PRINT DS;"PR#3": REM  TURN ON 80-COLUMN
   CARD
100 ONERR GOTO 930
110 REM
120 REM  TITLE ROUTINE & SCREEN SETUP
130 REM
140 PRINT
150 HOME
160 Y = 5: X = 22
170 VTAB Y: HTAB X
180 PRINT "
-----": REM 36 UNDERLINES
190 HTAB X
200 PRINT "
|": REM 36 SPACES
210 HTAB X
220 PRINT " | COLOR.CONTROL by Bryan Thorel
| |": REM 3/3 SPACES
230 HTAB X
240 PRINT " | Copyright 1987 by MicroSPARC.I
nc. |"
250 HTAB X
260 PRINT "
-----": REM 36 UNDERLINES
270 VTAB 16: HTAB 1
280 FOR L = 1 TO 79
290 PRINT " ";
300 NEXT L
310 PRINT
320 REM
330 REM  Command Parser
340 REM
350 VTAB 18: HTAB 1
360 PRINT "Enter (Color, Help, #, ?) > ";
370 INPUT "": CS
380 REM
390 S$ = "*"
400 IF CS = "?" OR CS = "/" THEN GOSUB 760:
   GOTO 350
410 IF CS = "HELP" OR CS = "Help" OR CS = "h
elp" THEN GOSUB 700: GOTO 350
420 IF CS = "BLACK" OR CS = "Black" OR CS =
"black" OR CS = "0" THEN S$ = "0"
430 IF CS = "YELLOW" OR CS = "Yellow" OR CS =
"yellow" OR CS = "1" THEN S$ = "1"
440 IF CS = "RED" OR CS = "Red" OR CS = "red
" OR CS = "2" THEN S$ = "2"
450 IF CS = "BLUE" OR CS = "Blue" OR CS = "b
lue" OR CS = "3" THEN S$ = "3"
460 IF CS = "ORANGE" OR CS = "Orange" OR CS =
"orange" OR CS = "4" THEN S$ = "4"
470 IF CS = "GREEN" OR CS = "Green" OR CS =
"green" OR CS = "5" THEN S$ = "5"
480 IF CS = "PURPLE" OR CS = "Purple" OR CS =
"purple" OR CS = "6" THEN S$ = "6"
490 IF S$ = "*" THEN 350
500 REM
510 REM  SETUP PRINTER
520 REM
530 GOSUB 860
540 VTAB 20: HTAB 1
550 PRINT "Turn on PRINTER and press RETURN.
";
560 GET RET$: IF RET$ < > CHR$(13) THEN 5
60

```

```

570 PRINT : PRINT DS;"PR#1"
580 PRINT CHR$(27) + CHR$(75) + S$:
590 PRINT DS;"PR#0"
600 PRINT
610 GOSUB 860
620 VTAB 20: HTAB 1
630 PRINT "Loading AppleWorks. Please Wait..
"
640 PRINT DS;"-PROGRAM"
650 NEW : END
660 REM
670 REM  HELP
680 REM
690 GOSUB 860
700 VTAB 20: HTAB 1
710 PRINT "This program allows you to select
the color that you wish to print your"
720 PRINT "AppleWorks files in. (You must h
ave an ImageWriter // Printer) You can
select"
730 PRINT "the colors by the number (1-6) or
by the name (RED, BLUE, ETC.). HELP"
740 PRINT "gives this message: '?' lists all
possible colors."
750 RETURN
760 REM
770 REM  LIST COLORS
780 REM
790 GOSUB 860
800 VTAB 20: HTAB 1
810 PRINT "BLACK YELLOW RED BLUE ORA
NGE GREEN PURPLE"
820 RETURN
830 REM
840 REM  CLEAR BOTTOM SECTION
850 REM
860 FOR M = 1 TO 4
870 VTAB 19 + M: CALL - 868
880 NEXT M
890 RETURN
900 REM
910 REM  ERROR HANDLING SECTION
920 REM
930 ERR = PEEK (222)
940 ELN = PEEK (219) + 256 + PEEK (218)
950 MG$ = "Message: " + ES$ = "Misc. Error #" +
STR$(ERR) + " in line " + STR$(ELN)
960 IF ERR = 6 THEN ES$ = "Insert disk with C
olor/AppleWorks on it."
970 IF ERR = 8 THEN ES$ = "I/O Error"
980 IF ERR = 255 THEN ES$ = "Please do not pr
ess Control-C"
990 MG$ = MG$ + ES$
1000 GOSUB 860
1010 VTAB 20: HTAB 1
1020 PRINT MG$
1030 VTAB 22: HTAB 1
1040 PRINT "Press RETURN to continue.";
1050 GET RET$: IF RET$ < > CHR$(13) THEN
1050
1060 PRINT
1070 IF ERR = 6 THEN GOTO 610
1080 GOTO 140: REM  RESTART PROGRAM
END OF LISTING 1

```

KEY PERFECT 5.0
RUN ON
COLOR.CONTROL

CODE-5.0	LINE#	LINE#	CODE-4.0
1A987044	10	100	6F84
8B4C2EAC	110	200	46C5
C41B2E40	210	300	5291
8F160240	310	400	33EE
4A6AAB0A	410	500	D1C8
F2BF1C29	510	600	4481
CFCCA20E	610	700	302C
0A619E8A	710	800	854E
39445332	810	900	3591
7A87094D	910	1000	7944
132E775B	1010	1080	3C14
4E27A092	=	PROGRAM TOTAL =	08BD