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GETTING STARTED

Zoom Grafix requires an Apple II or Apple II+ computer with 48K, a disk drive with 16 Sector DOS and Applesoft in ROM (or a Language System). It may also be used with an Apple /// computer with Apple II emulation software.

In order to use Zoom Grafix, you'll need to know how to boot up the Zoom Grafix diskette. If you're unsure about how to do this, take out your DOS manual and read it before proceeding.

You'll also need to turn your printer on. If your printer has switches to turn on its graphics options, be sure these switches are in the proper positions. Consult your printer manual if you're not sure.

THE SET-UP

The first time you use Zoom Grafix, you will be asked for your printer configuration. This configuration may be changed if you are using a different printer later on. Using the wrong configuration can't hurt either the printer or the computer, but the program probably won't print out a picture either.

If you type in a wrong answer, you can back up by using the left arrow key. Using the ESC key will take you back to the beginning.

The set-up program asks a series of questions about the printer and interface you are using. After answering these questions, you'll be asked if you want to save this set-up to disk. If this is your usual set-up, save it to disk. Once it is permanently saved you may still return to this set up section by hitting the ESC key during the boot.

After hitting return, if WAITING FOR THE PRINTER remains on the screen for more than a few seconds before the main menu appears, then either the printer isn't ready, or you have the wrong set-up for the printer and card configuration. If the printer isn't on, turn it on. Check to make sure there is paper in the printer and the switches are in the proper position. If not, correct the condition and turn the printer off and on. If you have a serial interface, be sure that both the printer and the interface card are operating at the same baud rate.

If this doesn't work, then you have made a mistake in the initial set-up. Hit reset, reboot and try the set-up again.

LOADING A PICTURE

Zoom Grafix will ask, THIS PICTURE? (Y/N). It will also display the picture (if any) currently stored in the computer. If you don't want the picture on the high resolution screen, type "N", and you will get the message, SWAP SCREENS? (Y/N). Typing "Y" will display the picture on the other high resolution screen and again ask the question, THIS PICTURE? (Y/N). If you select either of the high resolution screen pictures, you will be given the main menu.

If you wish neither screen (by typing "N" to SWAP SCREEN), you will be given the message WHAT FILE? You may either type in the name of the picture file to load from disk or get a catalog by pressing the return key.

If your picture file is preceded by the letters PIC. or followed by the letters .PIC you need only type in the name of the picture. Zoom Grafix will load the file with just the name. Thus "PIC.LADY" or "LADY.PIC" may be entered as LADY.

THE MAIN MENU

The main menu permits you to vary the printing of the picture in a great many ways.

The default values shown on the menu will be used unless changed by the user. You may use the ESC key anywhere in the program to get back to the main menu. This includes using the ESC key while the picture is being printed.

- 0) PRINT WITH THESE SETTINGS
- 1) POSITIVE
- 2) UPRIGHT
- 3) SIZE: 1 HIGH X 1 WIDE
- 4) ZOOM WINDOW: 0,0 TO 279,191
- 5) LEFT MARGIN: (8, 16, 32)
- 6) PRINT WIDTH: 8 INCHES
- 7) DELAY: 20 FOURTHS OF A SECOND
- 8) PRINTER:
- 9) LINEFEED OR FORMFEED THE PRINTER

SELECT 0-9 OR ESC

0) PRINT WITH THESE SETTINGS:

Typing in option 0 takes you to the print mode. Before the actual printing begins, you will have one final chance to make changes. If you are satisfied all is in order, you can begin to print.

1) POSITIVE:

This option allows you to print the picture either exactly as shown on the screen or **NEGATIVELY** which is the opposite of what is viewed on the screen. Although this seems simple, remember that the screen usually shows white dots printed on a black background. A graph, for example, is a white line displayed on a black background. If it were printed positively, there would be a white line printed on a black background. What we really want, though, is a black line printed on a white background. Therefore, we would print the graph negatively, or the opposite of what appears on the screen.

On the other hand, a "Slide Show" digitized picture, such as the "PIC.LADY" picture on the Zoom Grafix diskette would be printed exactly as shown on the screen. . . positively.

2) UPRIGHT:

The picture may be printed **UPRIGHT** (vertically), or **ROTATED** (horizontally).

Experiment with your printer and the picture you are printing to suit your particular needs and tastes.

3) SIZE:

You may expand the picture to fill some of, most of or all of the sheet of paper, by using this option. Normal proportions of 1 dot high by 1 dot wide will print a small picture on the paper. Changing these proportions to 2 dots high by 2 dots wide will make the picture twice as big. Some unusual effects can be achieved by printing the picture 2 dots high and 1 dot wide (or vice versa).

"Dots High" or "Dots Wide" refers to the direction on the screen, not to the direction being printed. In other words, printing a person 2 dots high x 1 dot wide will make the person look taller when printed **UPRIGHT**. if you print the picture **SIDEWAYS**, the person will still be taller (not fatter), even though the picture is printed horizontally.

4) ZOOM WINDOW:

Here is the "Zoom" part of Zoom Grafix. This allows you to zoom in on any section of the picture and print it out to any size on your printer (by using the size option to enlarge that section).

The screen is 280 dots across by 192 dots from top to bottom. You will be able to set the dimensions of the top, bottom, right side and left side by

using this option. After you changed these dimensions, you will be shown a frame around the section of the picture selected. If this isn't exactly what you want, you can then change these values. It is possible to print giant posters by enlarging a picture, section by section. For example, if you divide the picture into fourths and enlarge each fourth to a whole sheet of paper (by using the Size option), you can assemble these sections into one picture with 4 times the area of a single sheet of paper. Be sure, when doing this, to observe the cautions spelled out under the delay option.

5) LEFT MARGIN:

This controls the number of spaces from the left margin at which the picture will start printing. Three suggested values are given in the parentheses, for left edge, center or right edge respectively. These suggested values are refigured depending on the settings of options 2, 3, 4 and 6.

6) PRINT WIDTH:

Print width is automatically set depending on the printer being used. You may increase or decrease print width depending on the particular size of paper in your printer.

7) DELAY:

Printing large dark areas may cause your printer head to overheat. The delay is initially automatically set for the factor which you previously specified in your set-up of Zoom Grafix. You may change this to a greater or lesser delay but be extremely cautious when printing dark areas with a short delay.

Zoom Grafix has a "Pause" feature which is activated by hitting any key while the picture is printing. This will cause printing to cease until the space bar is pressed.

8) PRINTER:

This option allows you to change the printer/interface configuration.

9) LINEFEED OR FORMFEED THE PRINTER:

Using this option allows you to send a formfeed or linefeed command.

GETTING EVERYTHING IN ORDER

Zoom Grafix works hard to be sure that your printout fits on your paper. If setting the window and size and margin would cause your picture to

overflow the size of the paper, Zoom Grafix will first reduce the margin and then crop the picture to fit on the paper. However before final printing begins, Zoom Grafix will show you the area to be printed with a flashing frame.

In order to keep the size under control, try setting the options in this order . . . Option 2 (UPRIGHT), Option 3 (SIZE), Option 4 (WINDOW), and finally, Option 5 (MARGIN).

TRYING IT OUT

After booting the disk and defining your set-up, press “N” to each question until you’re asked “WHAT FILE?” Type “Grid” and press the return key.

After “Grid” loads, type “Y” to indicate you’ve accepted it. You will now see the main menu on the screen.

The grid consists of white lines on a black screen. We want to have black lines on a white piece of paper printed, so we will select Option 1 from the menu. Type in “1” and press the return key. When asked if you want this picture to print negative, answer “Y”.

Since we will leave all the other values alone all you need to do is type in a “0” and press the return key. The picture will be shown on the screen and since we want it to be printed as shown, you type in “Y” to accept it.

The picture will be changed to a negative on the screen, and you may follow the printing progress line by line as the picture is printed and each line returns to normal.

You may “Pause” during the printing process by pressing any key except the escape (ESC) key. Pressing a key again resumes the printing process. You may stop printing and go back to the menu by pressing the ESC key.

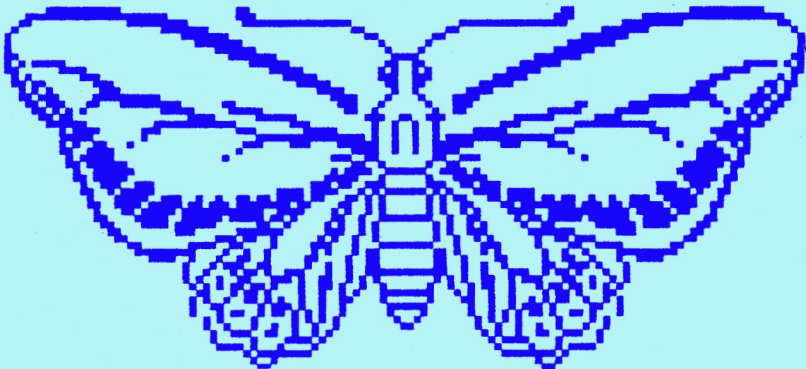
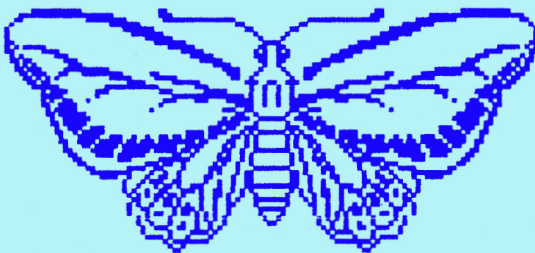
After the picture is printed, send a formfeed to the printer and admire your handiwork. (Note: some printers will lose track of the “top of form” when printing graphics.)

Now that you’ve gotten the hang of it, start experimenting with the features of Zoom Grafix.

HOW TO FIND HIGH RESOLUTION PICTURES

The Zoom Grafix disk contains several high resolution pictures for your amusement and experimentation. Other pictures are available on commercial diskettes or may be drawn by using various graphic tablets or paddle drawing programs.

High resolution pictures often are part of games. These may be loaded into memory by booting the game disk. After the picture is shown on the screen, remove the game disk and boot the Zoom Grafix disk. As long as you have not turned off the computer, the picture will be available when Zoom Grafix comes up.



ACKNOWLEDGMENT:

Phoenix Software, Inc. gratefully acknowledges the permission of Apple Computer, Inc. to use pictures available from their Slide Show series.

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WARRANTY:

Phoenix Software, Inc. will replace the Zoom Grafix diskette within 90 days of purchase at no charge to the buyer should it fail to boot. Thereafter, there will be a \$5.00 handling charge. The original disk must be returned to **PHOENIX SOFTWARE, INC., 64 LAKE ZURICH DRIVE, LAKE ZURICH, IL 60047**

Phoenix Software, Inc. makes no warranties, either expressed or implied, as to Zoom Grafix, its quality, performance or fitness for any specific purpose. Phoenix Software, Inc. is not liable for direct, indirect or consequential damages as a result of using this product. It is understood that this program is intended to be used in a business environment.

Notes: