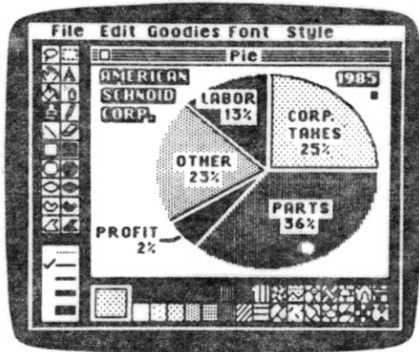
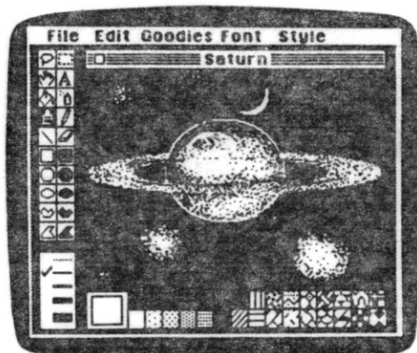


OO

Max[®]



USER'S MANUAL

COLORWARE

TABLE OF CONTENTS

1	Welcome to CoCo Max	2
2	System Requirements	4
3	Set-up	5
4	Basic Instructions	7
5	The Tool Box	10
6	The Patterns	16
7	Pull Down Menus	17
8	Files	18
9	Edit	21
10	Goodies	24
11	Fonts	29
12	Styles	30
13	SHIFT Functions	31
14	DOUBLE-CLICK Shortcuts	33
15	PRINTING Your Work	35
16	Digitizer Option	37
17	Miscellaneous	39

**COLORWARE**

COPYRIGHT 1985 COLORWARE INC.

1. Welcome To CoCo Max

Thank you for choosing CoCo Max. We hope that it will provide you and your family with many hours of creative enjoyment. CoCo Max is probably the most sophisticated program ever created for the Radio Shack Color Computer, yet it is delightfully simple to learn and use. The key to CoCo Max's simplicity is its extensive use of "Icons" (small symbols that you point at to get a function). "Pull Down Menus" control all the other functions with equal ease.

Although these concepts are not new, (the Xerox STAR System pioneered them and the APPLE McIntosh made them popular) CoCo Max represents a unique achievement by bringing this unprecedented power to your Color Computer.

Please do not use your original CoCo Max disk. Make several copies using the standard "BACKUP" function. For your convenience, the CoCo Max disk is NOT copy protected. Store away your original CoCo Max disk in a safe place and only use the backups.

IMPORTANT: Do not "Write protect" your disks. CoCo Max must write to the disk for some editing functions. Your CoCo Max disk contains several "image" samples. You may want to delete them from your disks to make room for more of your own pictures. Image files are easy to identify because CoCo Max automatically adds the "/MAX" extension to the file name when you save the image on disk.

2. System Requirements

DISK SYSTEM. To use CoCo Max your system must include:

- A Color Computer with 64K of memory.
- One disk drive (and controller).
- The Radio Shack MULTI-PACK interface or a simple "Y" cable.
- The CoCo Max HI-RES input module.
- A Joystick, Mouse or Koala Pad. We have found the Mouse to be best for CoCo Max.

- The CoCo Max diskette.



The Hi-Res Input Pack

3. Set-up

IMPORTANT: Make sure your computer is turned off before connecting anything to it (or to the Multipack).

As you will see, setting up your CoCo Max system is as easy as 1-2-3.

1) CONNECTING THE HI-RES INPUT MODULE.

a) Systems with MULTI-PACK:

The HI-RES pack may be plugged into slots 1,2 or 3. Your disk controller must be plugged in slot 4 as usual. If you have the optional DS-69 digitizer, it must be plugged in slot 1.

b) Systems with Y-Cable:

Be careful to plug the packs with their labels facing up.

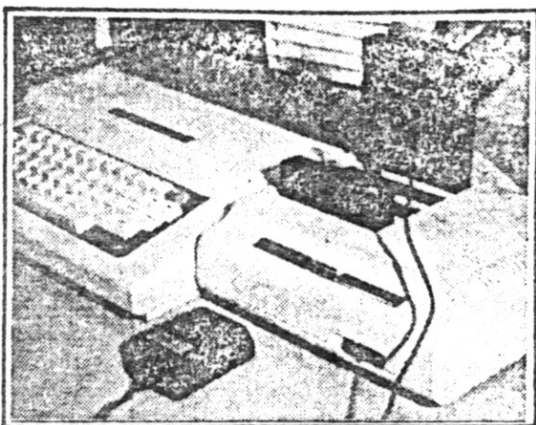
2) CONNECTING YOUR JOYSTICK, MOUSE OR KOALA PAD.

All Radio Shack devices that normally plug into the Joystick Input at the rear of your Coco will work with the HI-RES Input Pack. This includes the Joystick, the Mouse and the Radio Shack Koala Pad. Simply plug the device that you are using into the connector located at the rear of the HI-RES pack.

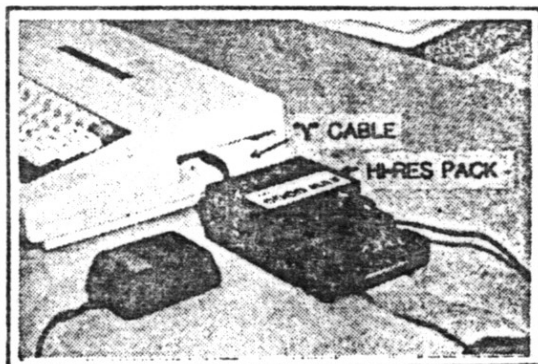
Note: We highly recommend the use of a Mouse with CoCo Max. As an input device, it allows great speed and accuracy in graphic applications.

3) Double check your connections. Turn the system on. The normal Radio Shack sign-on message should appear within a few seconds as always. If it does not, kill the power

SET UP



Systems with MULTI-PACK



Systems with Y-Cable

COCO MAX

immediately. Any abnormality at power-up is an indication that something may be seriously amiss.

4) LOADING THE COCO MAX SOFTWARE:

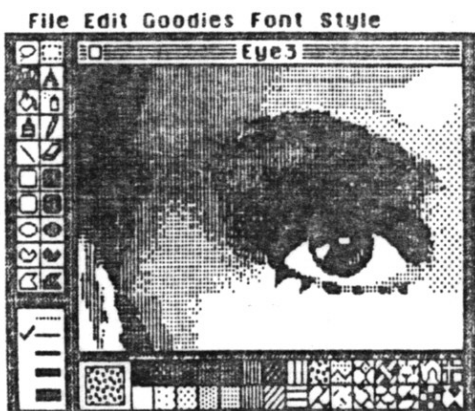
Simply place the diskette in the drive and type: RUN"COCOMAX"

CoCo Max will take a few seconds to load, then the CoCo Max screen will appear.

Important: If you intend to use a printer, CoCo Max must be "configured" to your particular printer. The procedure is very simple. From BASIC type:
RUN"CONFIG".

This basic program is self proating and will automatically "patch" your CoCo Max program to your printer.

CONFIG must only be run once, unless you change printer model.



4. Basic Instructions

Your CoCo Max system is essentially controlled by four functions using the Mouse (or Joystick or Koala Pad). These four functions are: POINT, CLICK, DOUBLE-CLICK and DRAG.

- POINT. When we say POINT, we simply mean to place your pointer (cursor) at a particular location on the screen.

- CLICK. In order to register a position or a function, simply "CLICK" by pressing the button on your Mouse, Joystick or Koala Pad just once.

- DOUBLE-CLICK. Some "shortcuts" and a few functions are achieved by hitting the button twice in a very rapid succession.

- DRAG. You "DRAG" by holding the button down while moving the cursor.

Know these four functions and you will have mastered CoCo Max. With the exception of text entries and naming your disk files, all of the many capabilities of CoCo Max are accessible without touching the keyboard.

There isn't a single command to memorize. In fact, it is so easy to use CoCo Max that even a child too young to read can enjoy it.

Let's just try a brief example of POINT, CLICK and DRAG to get a feeling for CoCo Max. Using your Mouse, Joystick or Koala Pad, POINT to the Icon representing the rectangle (below the diagonal line in your

Tool Box). Place the cursor on top of the box (the tip of the arrow can be anywhere within the rectangle).

Now CLICK the button on your Mouse by pressing it once.

Then you can move over to the work area (the large empty box that we call the "Window") of your screen.

Select a position somewhere near the upper left hand corner of the Window. Press and hold down the button (on the mouse, Joystick, etc.). While holding it down, "DRAG" your rectangle out to any size you wish.

Once the first corner of your rectangle is fixed, you can DRAG the opposite corner anywhere you want, as long as you do not release the button. When you find a rectangle size that pleases you, release the button. This fixes the rectangle onto the screen. Try creating a few rectangles in this fashion.

This CLICK and DRAG technique is how all of CoCo Max's "rubber band" shapes are used.

CoCo Max always gives you three levels of control on your work:

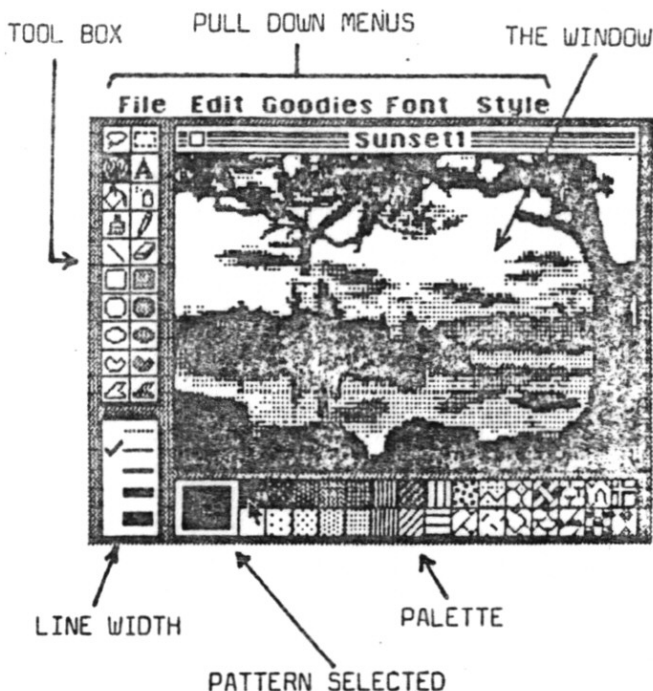
From the smallest up, they are:

1) The area delimited by the "LASSO" or the "EDITING BOX".

Inside their boundaries you can perform any of the graphic special effects which are accessible from the EDIT Menu.

2) The actual working area on the video screen is the "WINDOW". We often refer to it as the Work Area. Some of the EDIT functions can be made to affect the whole "Window".

3) The terms PICTURE, IMAGE and PAGE, refer to the entire work. It includes the part of the PICTURE that you can see in the WINDOW as well as the rest of it, which sits in your computer. You can bring any part of the picture to show in the WINDOW using the HAND tool (described in the Tool Box chapter).



5. The TOOL BOX

The left side of your screen is your tool box. It is comprised of 20 "icons". Icons are graphic symbols representing the tools that you will be using.

To select a tool simply position the pointer on the corresponding Icon, CLICK once, then return to the work area.

THE TOOLS

Be careful to click only once when selecting a tool. Some special functions are activated by DOUBLE CLICKING on certain tools (Icons).



PENCIL.

Use this tool for fine line free-hand drawing.

The pencil draws as long as the button on your input device is pressed. If you start a line when the tip of the pencil is on a black spot, the pencil will draw in white.



ERASER.

DRAG it to selectively erase. There are other ways to erase that we will see later. DOUBLE-CLICKING on the eraser Icon clears the whole Window.



RUBBER BAND LINES.

This function allows you to create perfectly straight lines quickly and easily. Simply position your cursor where you want the line to begin, then DRAG (hold button down) the cursor to the other end of the line you wish to draw. When you release the button the line is fixed.



RECTANGLE.

Position the pointer where you wish one corner of the rectangle to be and DRAG it out to the desired size. Release the button to secure the rectangle.

**RECTANGLE WITH FILL.**

Same as RECTANGLE above, but your rectangle will be filled with the selected pattern. The selected pattern is the one shown in the larger square on the bottom left of the screen. To select any of the patterns shown on the bottom of the screen, simply point to it and CLICK.

**CIRCLE AND ELLIPSE.**

Position the pointer and DRAG to any desired size and shape. As you DRAG, the circles or ellipses drawn will remain tangent to 2 imaginary lines drawn at right angles from the location of the pointer where the button was first pressed. What? Yes I know, as usual with CoCo Max I wish I could show it to you rather than talk about it.

**CIRCLE AND ELLIPSE WITH FILL.**

Same as above but filled with the selected pattern.

**ROUNDED RECTANGLE.**

This function produces rectangles with rounded corners. Position the pointer and DRAG to any desired size.

**ROUNDED RECTANGLE WITH FILL.**

Same as above but filled with the selected pattern.

**FREE-HAND SHAPE.**

DRAG for desired shape, release button to

close the shape.

This tool is very much like the PENCIL, except that it always draws in black even if you start on a black area (the pencil draws in white if you start on a black area).



FREE-HAND SHAPE WITH FILL.

Same as above but when the button is released a straight line is automatically drawn from your point of origin to the end of your last line. Then the closed area is automatically filled with the selected pattern.



POLYGON.

CLICK to anchor the starting point. Move to the end point, CLICK again to anchor the end of the first line and at the same time anchor the beginning of the second line, and so on.

You can exit the polygon three ways:

- DOUBLE-CLICK.
- CLICK at the starting point.
- CLICK outside the Window.



POLYGON WITH FILL: same as above but the shape is filled with the selected pattern.



FILL.

Any outlined area is filled with the selected pattern. You can for example draw any shape using the Pencil and then FILL it with this function. (The Icon represents a paint bucket being poured).

Note: Your outline must be unbroken. Any gap will allow the fill to reach adjacent areas. Note: large areas with complex shapes



may not fill completely.

SPRAY CAN.

Works just like a can of spray paint. Your button is the valve of the spray can. Any selected pattern can be sprayed within the work area. Try changing the density of paint by selecting different dot patterns from the "Palette" on the bottom of the screen.



PAINT BRUSH.

The Paint Brush paints with the selected pattern using the selected brush shape. Many brush shapes are available.

DOUBLE-CLICK (with pointer on the Paint Brush Icon) to call the Brush Shape menu: POINT and CLICK on the desired shape and width of brush. Now you can paint by DRAGGING the Brush within the Window.



HAND.

What you see in the Window on your screen is only part of the entire picture. The screen is actually a moving Window on the whole image. You can move your Window anywhere over the larger picture by DRAGGING the Hand in any direction.



ALPHA-NUMERIC.

You may place text anywhere in your picture. There are a variety of Fonts and Styles to work with. This will be explained later in the "Pull Down Menu" section.



EDITING BOX: This is a powerful tool. We will explain it in detail in the "Pull Down Menu" section. Basically, the EDITING BOX restricts the Editing Functions (such as REVERSE, TRACE EDGE, FILL Etc.) to the area inside the Editing Box. The Editing functions are available from the EDIT pull-down Menu.

Select your beginning point and DRAG to the desired area. To cancel, CLICK outside the editing box.



LASSO.

The Lasso is used to isolate and extract any picture element. You may then move the picture element anywhere within the Window. There are many other things you can do with the Lasso. All will be described later when we examine the EDIT Menu.

Any part of the screen can be cut and pasted to another location. Let's try it:

- Draw a line around any part of the picture. When you release the button, the lasso line is closed and the picture inside blinks.

- Place the pointer on any blinking black area so that the pointer changes from a cross-hair to an arrow.

Now you can DRAG that part of the picture anywhere within the work area.

- Release the button to secure the move.

Note that as long as the area moved is still blinking, you could DRAG it again to another location.

- To lock the change and remove the lasso, move the pointer outside of the lasso area and CLICK. The blinking stops.

- LINE WIDTH

When using the shape drawing functions (all of the ten tools below the Paint Brush in both columns), you have the ability to select different line widths.





















Simply position the pointer at the Line Width of your choice and CLICK.

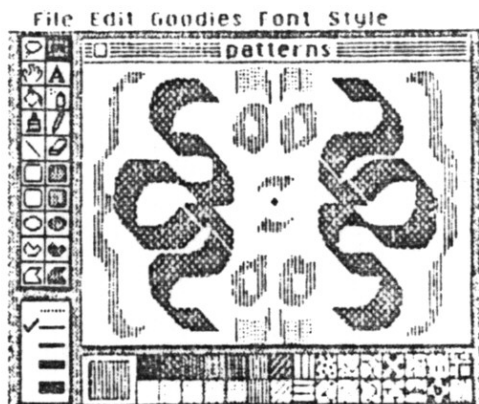
Note: The dotted line has a special function. Use it in conjunction with any of the filled shapes to create "borderless"



shapes. Let's try it: select a pattern (except solid white or black), try the Fill Circle function. See that your circles have no frame or border around them.

THE TOOLS

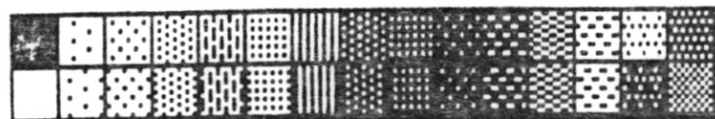
LASSO			EDITING BOX
HAND			ALPHA-NUMERIC
FILL			SPRAY CAN
PAINT BRUSH			PENCIL
RUBBER BAND LINES			ERASER
RECTANGLE			RECTANGLE WITH FILL
ROUNDED RECTANGLE			ROUND. RECT. WITH FILL
CIRCLE AND ELLIPSE			CIRCLE WITH FILL
FREE-HAND SHAPE			FREE-HAND WITH FILL
POLYGON			POLYGON WITH FILL



6. THE PATTERNS

At the bottom of your screen is the pattern selection "Palette". The larger box on the left of the palette always displays the currently selected pattern. To change the selected pattern, simply POINT to any of the 30 patterns that are displayed on the palette and CLICK.

There are 60 standard patterns available. Only 30 are displayed on your screen at one time. To alternate between the two sets of patterns, simply point to the "active pattern" box (that's the larger square near the bottom left corner of the screen), and CLICK. The other set of patterns will immediately replace the current one. The second set was particularly designed to produce color shades, but is very useful in black and white as well. Furthermore, you can create your own custom patterns with a function called "Edit Pattern". More about this later when we describe the "GOODIES" Menu.



The two sets of Patterns

7. PULL DOWN MENUS

At the top of your screen are the words:

FILE EDIT GOODIES FONT STYLE

Under each of these headings hides a "Pull Down Menu". Each controls a part of CoCo Max's capability.

To select one of the menus, simply POINT to it and CLICK.

The Menu will appear below the heading.

Move the pointer to the desired function (which will be highlighted in reverse) and CLICK again to select it.

To exit the menu, CLICK anywhere outside the Menu Box.

Some Menu functions "toggle" on and off.

Click it once and the function is on. Click it a second time to turn it off. Any menu function that is "on" or "selected" will have a check mark next to it.

We will examine the Menus in detail. Here is a brief description of their major functions:

FILE allows you to Print, Save and Recall (Load) images

EDIT. Use it to Cut and Paste, Rubberstamp, and activate the special graphic effects (Invert, Trace Edges, Flip, Etc.)

GOODIES to access Fat Bits, Edit Pattern, select Brush Shape, etc.

FONT to select a particular typeface for text.

STYLE to modify the typeface (font) to produce variations of type style such as: bold, italic, outline, shadow.

8. The "FILE" Menu.

POINT to "FILE" then CLICK to pull down the FILE menu.

CLEAR PAGE. As its name implies the whole picture is cleared. Remember that when we refer to the "page" we refer to the whole image not only the Window on the screen (your active Work Area).

So CLEAR PAGE will erase your entire work, but don't worry if you activate it accidentally, CoCo Max is very forgiving and will allow you, in most instances, to "UNDO" a mistake. (More on that in the next chapter)

LOAD PAGE. You can recall and load into CoCo Max any picture previously saved. You are presented with a box on the screen. Type in the name of the picture file that you want to Load.

Press ENTER or move the pointer to OK and CLICK. The picture will take a few seconds to load from the disk and appear on the screen. The name of the file is always shown above the Window.

As you may already know, when loading any disk file you must spell the file name exactly as it was saved. Since CoCo Max has upper and lower case letters you must also adhere to it in file names. A file called "Pix" is not the same as a file called "PIX".

To exit without loading a file, POINT to "CANCEL" and CLICK.

SAVE. Saves your current picture to disk and automatically assigns the file name

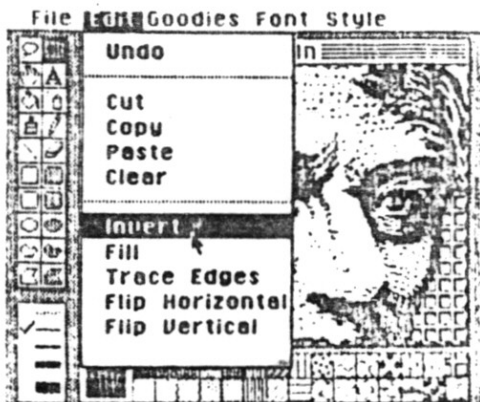
that appears above the Window. This allows you to quickly save the latest revision of your work. If no name was given, CoCo Max assigns the name "Untitled" to the file. All CoCo Max image files are automatically assigned the extension /MAX.

SAVE AS. Saves your current picture with any file name you want to assign to it. Normal Radio Shack file name conventions should be observed (no more than 8 letters, etc.). Do not add your own extension. Remember that CoCo Max automatically adds the extension /MAX to all picture files.

DIRECTORY. You guessed it. The disk directory is displayed. Only the picture files (with the /MAX extension) are shown. To load any picture from the disk, type in the exact file name.

QUIT. It is used to exit CoCo Max and return to Basic. If you do this by mistake, simply type EXEC to return to CoCo Max, your picture will be intact.

The PRINT functions are the object of a separate chapter.



9. THE "EDIT" MENU

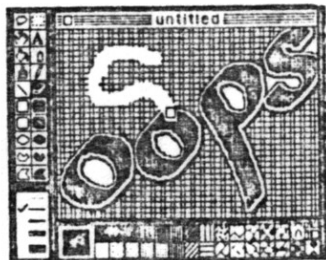
UNDO. This is certainly one of CoCo Max's more likeable features. You can actually UNDO your mistakes.

Suppose you had spent considerable time and effort on a creation and then you accidentally filled your masterpiece with the wrong pattern, or you sneezed violently during your last brush stroke.

Don't despair, simply UNDO. To get this function, CLICK the EDIT Menu and then CLICK UNDO. Try it and see. UNDO will clear whatever you have done back to your previous CLICK. Draw a line and then UNDO. The line disappears. Now draw two separate lines and UNDO. Only the last line is undone.

And yes, you can even undo what you have undone. Suppose you decided that your last keystroke was not so bad after all, but you had already undone it. Select UNDO again and your undone stroke re-appears.

Since UNDO is so useful, particularly when trying different patterns with the FILL function, we have provided a short cut. There is a little white box above the Window on your screen. The box is just at the left of the line which contains the file name (right below the "EDIT"). CLICKING on this white box is a short cut way to UNDO.

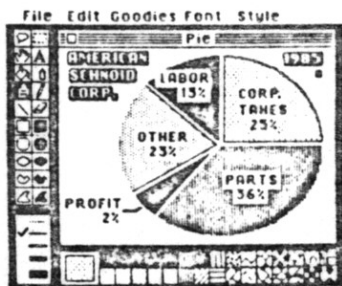
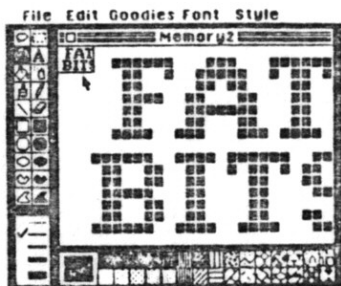


CLEAR, INVERT, FILL, TRACE EDGES,
FLIP HORIZONTAL, FLIP VERTICAL.

To use any of the above functions, you must first surround part of your image with an EDITING BOX. Then by CLICKING on one of these functions the operation is performed. Although their names describe what they do, we suggest that you try each function to see their effect.

Remember that by simply DOUBLE-CLICKING on the EDIT BOX Icon, you automatically place an Editing Box around the entire Window. Then the EDIT functions will effect your whole Work Area. As usual, if you do not like the result of a certain action, you can UNDO it.

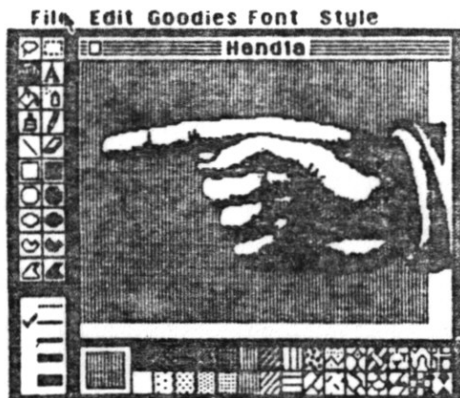
THE CLIPBOARD. Your CoCo Max has an invisible "Clipboard". Any part of the picture can be "extracted". Simply surround it with the LASSO or the EDITING BOX. Now you can CUT or COPY it and the defined area is placed on your "Clipboard". The Clipboard is a dynamic file (named CLIPBORD) on your disk, that's why you should not put a "write protect tab" on your CoCo Max diskettes.



CUT. When you CUT, the area that you selected with your Lasso or Editing Box is erased from the Window and placed in the invisible Clipboard, so it can be recalled later by PASTE.

COPY. This is similar to CUT. The selected area is copied onto the Clipboard but the Window is left intact.

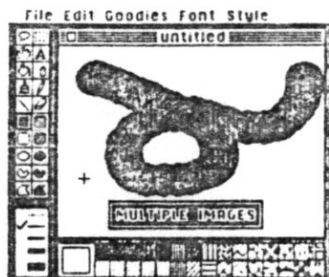
PASTE. This is one of the nicest features of CoCo Max. Any part of a picture can be transferred to any other area of the same picture, or even to different pictures stored on your disk. This is possible because loading a new image from disk does not alter the content of the Clipboard. When you CLICK on the PASTE function, whatever was placed on the Clipboard last (even during a previous session several days ago), will appear in the Window. You can move it around by placing the cursor inside the "pasted" area and DRAGGING it around. CLICKING outside the area will lock the PASTED area in place.



MULTIPLE IMAGES. This one might surprise you. Try making a little drawing with the Paint Brush. Circle it with the LASSO. Move your cursor inside the blinking area. Hold the button down and drag it around while you hold the SHIFT key down...

The rate at which the images are stamped can be adjusted. When CoCo Max is doing multiple images, the Line Width box serves as a spacing control. If the thickest line is selected the image is stamped every 8 pixels when you DRAG it. If you select the thinner line just above, the image is stamped every 4 pixels. The next thinner line up, when selectd will yield a stamp every 2 pixels. If you select the thinnest line or the dotted line the image is stamped every pixel, giving the effect of a continuous trace. If you DRAG your Mouse fast, the "stamps" will be spread further apart.

RUBBER STAMPING. To get a simple duplicate image (rubber stamp) follow the same instructions as above, but press the SHIFT key once while holding down the Mouse button. You can Rubber Stamp with either the LASSO or the EDITING BOX.



10. THE "GOODIES" MENU

GRID. This handy function is used with all the "rubberbanding" tools (lines, squares, circles...). Imagine an invisible grid pattern on which the lines, rectangles and circles are forced to lock on. The points on the invisible grid are 8 pixels apart. This makes it easy to draw perfect squares, circles, horizontal and vertical lines, because the cursor jumps 8 pixels at a time. Try using the "Rubber band Line" function with GRID on and GRID off to see how it works. To toggle this feature off POINT to it and CLICK again.

FAT BITS. This is the Zoom-In function. You may select it from the GOODIES Menu or it can be conveniently activated by DOUBLE-CLICKING on the Pencil Icon. When FAT BITS is on, the work area looks very different: in the top left corner is a small area representing a very small part of the picture. This small area is magnified 8 times and shown on the rest of the Window. At this magnification each "Pixel" appears as a large black square. A Pixel is the smallest "dot" that the computer can display.

It is now very easy to change any detail Pixel by Pixel:

POINT and CLICK at the Pencil tool. Return to the work area and see how the pencil works as usual, point by point. To add a Pixel, CLICK; to remove one, CLICK. The Click will add a Pixel if there is none at the pointer location; clicking on an existing Pixel will erase it.

As you are touching up your picture with FAT BITS you can see the result in actual

size in the top left corner box.

Note that most of the TOOL-BOX functions will still operate in the FAT BITS mode.

When you enter FAT BITS, you might not get exactly the part of the picture that you want to edit. The HAND tool will allow you to move to any part of the picture. POINT to the Hand and CLICK. Then return to the Window and DRAG the image until you find the desired area in the Window. Select the pencil (or another tool) and return to the Work Area to experiment.

With a little practice you will realize the power of FAT BITS. It is like a powerful magnifier above your picture allowing very detailed work.

To exit FAT BITS you have 3 choices:

- POINT to the Pencil Icon and DOUBLE-CLICK.
- Pull down the "GOODIES" Menu and CLICK on FAT BITS.
- CLICK on the small corner Window where the actual size is shown.

SHOW PAGE. Normally, only a part of your whole picture is shown on the screen. CoCo Max provides two ways to view the whole image. SHOW PAGE is one of them. The entire picture is reduced to fit on the screen. Of course this shrunken picture is not as detailed as your actual picture, but it does give a good idea of how your printed page will appear.

Another way to see the complete picture without loss of resolution is the SCROLL PAGE described later.

To return to the regular screen, simply

CLICK.

EDIT PATTERN. You may edit any of the various patterns on the bottom of the screen, except the solid white and the solid black patterns.

A typical example would be as follows:

- POINT and CLICK to one of the patterns (except the solid white or solid black).
- POINT and CLICK to the GOODIES Menu.
- POINT and CLICK to "EDIT PATTERN".

At this point, a new Window appears in the center of your screen. The left rectangle is a FAT BITS representation of the pattern. All patterns are constructed from an 8 by 8 matrix.

The rectangle on the right shows the pattern in actual size. This is convenient to judge the visual effect of a pattern over a large area.

Use the pointer to CLICK-ON or CLICK-OFF any of the magnified pixels. You are free to create any combination of pixels to create many new patterns.

Special note about color: in the HI Resolution mode (used by CoCo Max), the Color Computer can only generate two true colors (besides black and white). However, many colors and hues can be created using the "Fringe" and "Dithering" effect. Experiment with different patterns and see how the placement of the pixels affects the color of the pattern.

BRUSH SHAPE. Click on this menu item and you will be presented with a "BRUSH MENU" displaying 32 different brush shapes. Click on any one of the shapes and it will be selected.

Note: choosing a Brush Shape does not select the Paint Brush tool. If the Paint Brush is not already selected, you must go over the tool box and click on the BRUSH Icon.

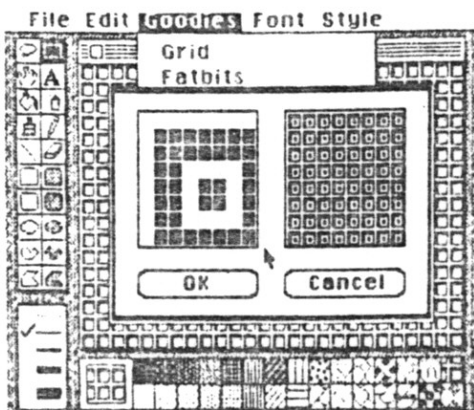
DOUBLE-CLICKING on the Brush Icon will also bring up the brush shape menu. This is easy to remember and requires one less CLICK! Remember that the Brush always paints with the selected pattern. If the brush refuses to paint, check the selected pattern, it is probably solid white.

BRUSH MIRROR H. (HORIZONTAL) If this function is selected while using the Brush, a second brush creates a symmetrical image of the first brush, yielding a mirror effect. This feature can be toggled on and off.

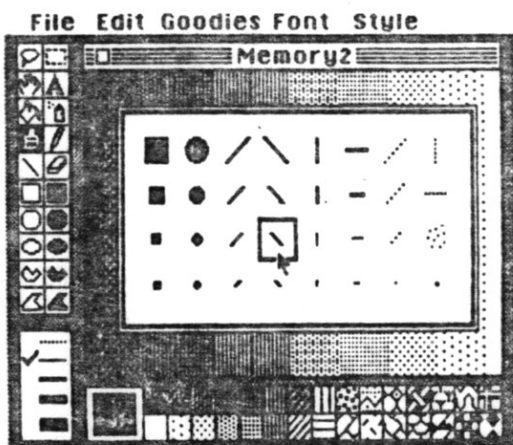
BRUSH MIRROR V. (VERTICAL) This feature is the same as described above. The symmetry is vertical instead of being horizontal. Both MIRRORS can be turned on to create pleasant symmetrical patterns reminiscent of a kaleidoscope effect. Mirrors work with the Paint Brush only.

INERTIA. This is a special function to be used only if you use a Koala Pad as your input device. When the inertia function is on, the sometimes jerky signal from the pad is smoothed out. If you already own a Koala Pad you might want to experiment with it. However, if you intend to purchase an input device to replace your joystick, we recommend the Mouse instead of the Kola Pad.

SCROLL PAGE. The CoCo Max frame disappears and the entire screen becomes a Window displaying a large part of the image. Move your input device up and down to smoothly reveal the rest of the picture. This is a good way to show your creation on screen. To exit this mode, simply **CLICK**.



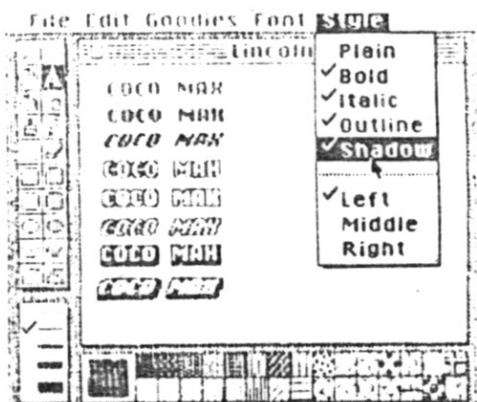
EDIT PATTERNS



PAINT BRUSH SHAPES

11. THE "FONT" MENU.

In the typesetting industry, different letter designs are known as FONTS. Your CoCo Max includes several fonts. We have given them the name of some cities. One of the nice features of CoCo Max is that it allows you to change the Font AFTER the text has been typed in. Try this: POINT and CLICK at the "A" Icon to get "alphanumerics". Place your pointer somewhere in the lower half of the Window near the center. CLICK again to register the position where the text is to be entered. Type anything (your name for instance). Do not press Enter. Now pull down the FONT menu, select the different fonts, and see how the letters on the screen immediately change according to the new selection.



STYLE MENU

12. THE "STYLE" MENU.

Each FONT can accept any one of the five styles shown in this menu. To see this feature in action repeat the sequence described on the previous page, so that some text shows on the lower part of the screen.

Pull down the STYLE Menu. You can click at random on all the styles and see the effect on your text.

Some styles are exclusive. For instance, the letters are either PLAIN or BOLD but not both at the same time. However, the other styles such as ITALIC, OUTLINE and SHADOW are independent features. They can be added to the basic BOLD or PLAIN letters.

For instance, letters can be simultaneously BOLD, OUTLINED and SHADOWED. You may also italicize the whole thing if you wish.

Note that only the current line of text can have its style changed. Any previous line of text will not be affected by any change in Font or Style. Once you hit ENTER, the text is fixed.

This allows you to mix the different fonts and styles on the same page.

COCO MAX
COCO MAX
COCO MAX
COCO MAX
COCO MAX
COCO MAX
COCO MAX
COCO MAX

13. Special effects of the SHIFT key.

Some very useful and interesting special effects are available by using the SHIFT key with certain tools:

A) WITH THE PAINT BRUSH:

Let's see an example to demonstrate the effect of pressing the shift key on the keyboard while DRAGGING the paint brush:

- Call the Paint Brush Menu (double-click on the Paint Brush Icon)
- Select one of the biggest solid Brush Shapes.
- Click to return to the Window.
- Select one of the lightest patterns on the palette (but not solid white).
- DRAG the Mouse on the Window. A fat line is drawn with the pattern which you have selected. Drag the Mouse so that it crosses its own path several times. Now select a different light pattern. Note that when the Brush paints over a previously painted area, it covers it. This could be compared to opaque oil paint that covers and hides the previous coat.
- Now clear the Window (Double-Click on the Eraser Icon) and repeat the above step but as you DRAG the Mouse on the second pattern of paint, hold down the shift key (on your keyboard). Notice when you paint over a different pattern, the Paint Brush does not cover the previous coat but adds to it. This effect could be compared to painting with water colors. The added patterns mix with the existing one instead of covering them like oil paint does.

As you DRAG the Mouse, you can press or release the shift key at will, "on the fly"

to get the Water Paint or the Oil Paint effect.

B) WITH THE RUBBER-BANDING TOOLS.

The ten tools located below the Paint Brush Icon on your tool box can be used with the following option:

If you hold the SHIFT key down while DRAGGING a shape (rectangle, circle, polygon etc.), the lines drawn instead of being solid black are made using the selected pattern. The width is selected as usual with the line width box.

Note: This function also works with the "RUBBER BANDING LINE" tool.

C) WITH THE SPRAY CAN.

As with the paint brush, if you hold down the SHIFT key, you can Spray and mix patterns. Try to Spray a light pattern, then spray a different one on top while holding down the Shift key.

See how the patterns combine.

D) WITH THE TRACE EDGES.

You may press the Shift key with the TRACE EDGES function (available from the EDIT Menu). The result will be a "Shadow effect" the lines traced will be thicker on the bottom right part of the subject. This is useful in creating fancy lettering and "3D" effects.

E) WITH THE PASTE.

When an area is defined with the LASSO or is recalled with PASTE, pressing the SHIFT key will "rubberstamp" it or create multiple images (see chapter 9).

14. The DOUBLE-CLICK SHORT-CUTS.

As you have seen, most of the tools and functions of CoCo Max can be directly accessed by the Tool Box Icon or by the Pull-Down Menus.

For added convenience and speed some Icons have DOUBLE-CLICKING features. These are called "Short-cuts" Most of them have been described previously. They are summarized here.

EDITING BOX (top right in the tool box):
DOUBLE-CLICKING on the EDITING BOX Icon causes an Editing Box to surround the entire Window. Use this function when you want the editing feature to effect the entire Window instead of just part of it. For example: Draw anything on the screen. Then DOUBLE-CLICK on the EDITING-BOX Icon. Pull down the EDIT Menu and select INVERT. The whole Window is now in reverse video.

Note: to use the EDIT features, an EDITING BOX must be first defined. You can make the whole Window become the EDITING BOX by DOUBLE-CLICKING on the EDITING BOX Icon. If you pull down the EDIT Menu and see that most of the functions are shown in shaded letters, it means that no Editing Box has been defined. Therefore, the functions are not enabled.

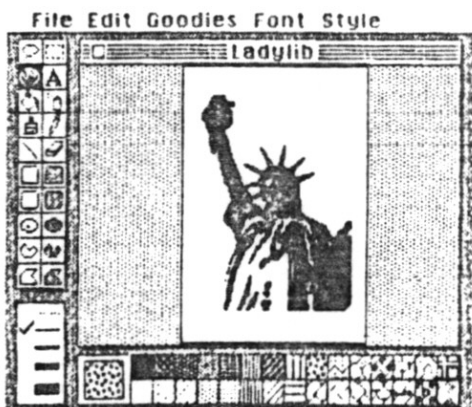
For the EDIT functions (except PASTE) to operate you must first:

- DOUBLE-CLICK on the EDITING BOX Icon to indicate "the whole Window" or:
- Define a rectangular area by DRAGGING the Editing Box to the particular area that you want to EDIT.

ERASER: DOUBLE-CLICKING on this Icon clears the Window. Only what shows in the Window is erased, the rest of the big picture is not affected. To erase your entire picture, select the CLEAR PICTURE from the FILE Menu.

PENCIL: a DOUBLE-CLICK on the Pencil Icon will put you in the FAT BITS Mode. DOUBLE-CLICKING again will bring you back to the normal mode.

HAND: the "SHOW PAGE" is performed if you DOUBLE-CLICK on the Hand Icon. To return to the Window display, CLICK.



SHOW PAGE

15. PRINTING YOUR WORK

As you know there are a large number of printers available for your Coco. Most of them behave basically the same way when printing alphanumeric characters. When it comes to graphics, however, there is no standard. Each manufacturer has its own way of handling "dot addressable graphics". The various methods also depend upon the features of the given printer (number of pins in the printhead, number of dots per inch etc.). Writing "print routines" for all the printers is a complicated and never ending task since new models appear every week.

For these reasons you must install a "print routine" designed especially for your printer.

This procedure is simple and need only to be done once.

As it is constantly evolving, we have treated this subject in a separate program. From BASIC, type RUN"CONFIG". Simply answer the questions on the screen. There are eight ways to print your CoCo Max creation. You can select:

- Regular size (small size) where one pixel on the screen is represented by one dot on the printout.
- Double size where one pixel on the screen will correspond to 4 dots on the printout
- Double strike or single.
- Print the entire picture or do a "screen dump".

These 3 choices give you a total of eight combinations.

Here is how to select them:

Pull down the FILE Menu. The bottom part, below the dotted line should read:

- Double Strike
- Double Size
- Print

When you first load CoCo Max it is set to: Double Strike off, Double Size off. Moving the pointer to "Double Strike" and CLICKING will cause a check mark to appear, indicating that this option is now turned on. Clicking again will turn it back off. Use DOUBLE STRIKE to produce your final artwork. The printing will take longer but the printout will look better.

Now that you have chosen the size and the single/double strike option, you must start the printing.

For a simple "Screen Duap", simply press SHIFT-RIGHT ARROW on your keyboard. The printout will be an exact replica of what appears on the screen, including borders, Tool Box, Patterns, etc.

You can perform a "Screen Duap" anytime by pressing SHIFT-RIGHT ARROW. The printing is always done according to the options shown in the FILE Menu.

If you want a printout of the whole picture, pull down the FILE menu and CLICK on PRINT.

You may Print part of the picture, without the Tools, palette, title, etc. To do so, simply Click the GOODIES Menu and Click SCROLL PAGE. You can scroll the picture up and down with your mouse. Pressing the Shift/right arrow key will cause whatever is on the screen to be printed.



16. THE DIGITIZER OPTION.

With just a bit of practice you will be quickly creating great graphics with CoCo Max. But imagine if you could load any possible picture into CoCo Max; such as:

- The faces of your family and friends
- Cartoons and drawings from books
- Images from TV shows
- Pictures from magazines
- Etc, etc.



You could edit, modify, enhance, the picture using all of CoCo Max's tools. You can print the original picture or the modified one on your printer. Possible applications range from genuinely useful to downright silly.

The device which allows this is the DIGISECTOR DS-69.

Not unlike CoCo Max, the DIGISECTOR is a hardware/software system.

The hardware consists of a cartridge which plugs into slot 1 of the RADIO SHACK Multipak (the Multi-Pak is required).

On the rear of the DS-69 cartridge, there is a standard RCA jack like those on your stereo. You can feed any "video signal" into this jack. It could come from many sources such as:

-The "VIDEO OUT" on your Video cassette recorder.

-The output from a video camera (color or black and white)

-Another computer with a video output (Apple, Commodore, etc.)

The SOFTWARE:

The Digisector is simple to use. Once the software is loaded your CoCo can take electronic snapshots.

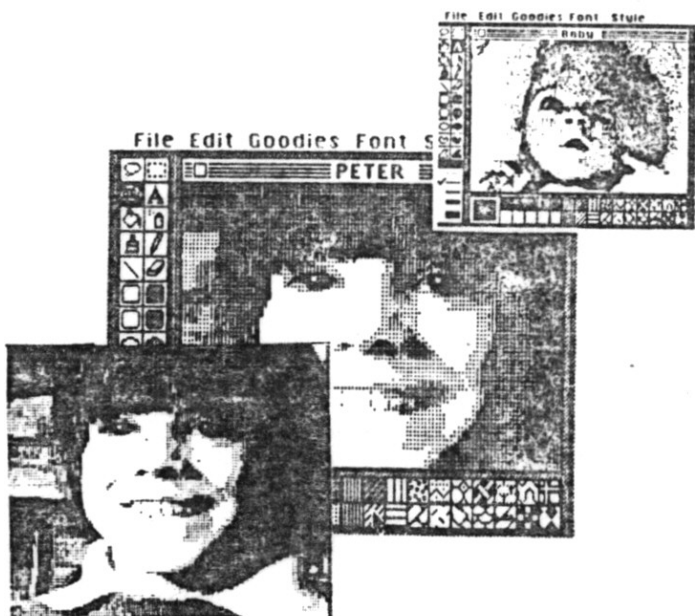
The "digitized" pictures are displayed on your screen at the rate of 2 per second. By simply pressing a key, the computer will "grab a frame". Once a picture is frozen in the computer memory, it can be saved on disk to be recalled later.

The picture may also be printed.

The DIGISECTOR is a complete system and does not necessarily require CoCo Max.

The image files created by DIGISECTOR can also be used by your CoCo Max. Then you have the CoCo Max array of graphic tools of transform the image

Call us for additional information on the DS-69.



17. MISCELLANEOUS.

- The HI-RES Input Pack is addressed at FF90
- When CoCo Max is in any mode, pressing SHIFT/RIGHT ARROW will cause a Screen dump.

DISPLAYING A COCO MAX SCREEN FROM BASIC.

If you wish to save a CoCo Max screen for use in Basic, simply press SHIFT/UP ARROW. Whatever is on the screen at that instant will be saved on a disk file named SCREEN/BIN.

To save a screen without the CoCo Max borders, tools, palette, etc. go into the SCROLL PAGE mode before using the SHIFT/UP ARROW save function.

The SCREEN/BIN file is 6144 bytes long and is similar to any Extended Basic Hi-Resolution screen file.

This short program will display the SCREEN/BIN file created by CoCo Max.

From Power up (cold start) type:

```
10 PMODE 4,1 : SCREEN 1,1
```

```
20 LOADM"SCREEN" (load at Hex E00)
```

```
30 GOTO 30
```

All the BASIC standard functions are available on the image.

If you create some outstanding pictures with your CoCo Max, kindly send us a printout or a disk (or both), we might use them in future advertisements, flyers, etc.



LIMITED WARRANTY

Your **CoCo Max** is warranted to the original consumer only, for 90 days, to be free from defects in materials and workmanship under normal use. Our obligation under this warranty is limited solely to repairing the product without charge. Please send any defective units to us insured and properly packed to prevent loss or damage during shipment. Colorware Inc. is not liable for incidental or consequential damages due to malfunction of this product, and any recovery may not be greater than the purchase price of this product.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Colorware Inc. shall have no liability or responsibility to the purchaser or any other person regarding liability, loss, or damage caused or alleged to be caused by use of the program or this manual. This includes, but is not limited to, any loss of business or anticipated profits resulting from such loss of business, or any interruption of service or consequential damages, whether physical, monetary, material, or of any other kind, resulting from use of such program or this manual.

Important : Opening the **COCO MAX** unit will void your warranty.

COCO MAX

COLORWARE

78-03 Jamaica Ave.
Woodhaven, NY 11421
(718) 647-2864