

MOUSE PAINT
for the
ACORN ELECTRON

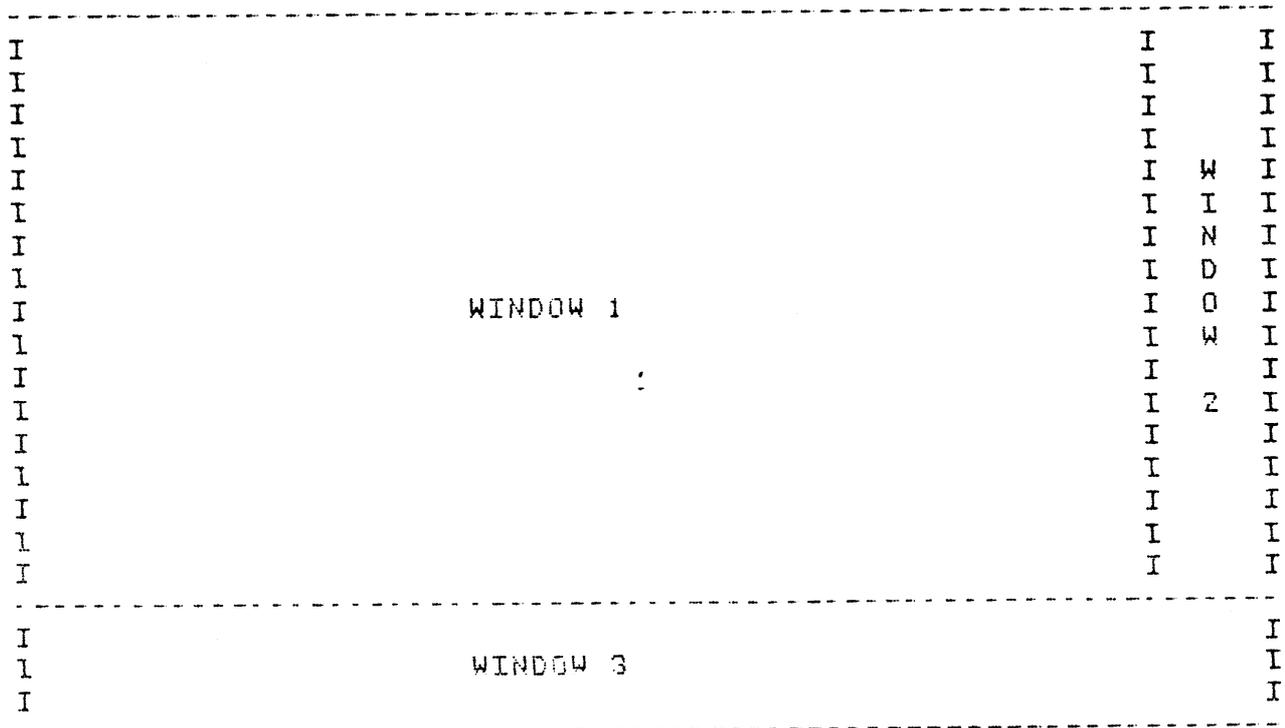
Adapted for the Acorn Electron
by
SLOGGER COMPUTERS

INTRODUCTION

MOUSE PAINT is an art package designed for ease of use. Designed for the BBC computer and adapted for the Electron computer, MOUSE PAINT is controlled by a combination of the Keyboard and either a Mouse connected through a User Port or a Tracker Ball connected through the Analogue Port. MOUSE PAINT utilises a high resolution 4 colour screen mode and thus offers good definition pictures with the flexibility of a colour scheme.

MOUSE PAINT is supplied on an 80 track disk (5,1/4 inch DFS) and is loaded by SHIFT-BREAK.

Once loaded, MOUSE PAINT displays its standard screen layout which may be regarded as three 'windows'. Window 1 is the area of the screen in which the picture is drawn. It is initially blank. The right hand area of the screen is designated for functions selected by the Mouse and this area is defined as Window 2. The bottom of the screen, Window 3, displays the current function selected and also additional information associated with individual functions.



USING THE MOUSE

The Mouse movement controls a Cursor which is displayed in the form of a cross. The Cursor may be moved up / down and left / right on the screen by the forward / backward and left / right movement of the Mouse on the desk top. The Cursor may be moved anywhere over the entire screen and may select functions such as Line Drawing, Trigonometrical functions, Colour changing, Saving and Loading pictures etc. using the Left Mouse button.

WINDOW 2 is the function select window and is partitioned into a number of small squares. To select a particular function, the Cursor is moved to point into the square depicting the required function and then the left hand button on the Mouse is pressed to select that function. The function selected will be displayed in Window 3.

	I=====I	
	I I M/T I	Mouse/Tracker ball
	I=====I	
	I I I	
	I=====I	
	I I I	
	I=====I	
Hatched Shape FILL	I I L I	*L'oad picture
	I=====I	
Solid Shape FILL	I I S I	*S'ave picture
	I=====I	
Paint BRUSH	I I C3 I	Colour 3
	I=====I	
Select TEXT	I T I C2 I	Colour 2
	I=====I	
Select ELLIPSE	I I C1 I	Colour 1
	I=====I	
Select CIRCLE	I I C0 I	Colour 0
	I=====I	
Select RECTANGLE	I I P I	
	I=====I	
Dotted Corrected LINE	I I F I	
	I=====I	
Solid Corrected LINE	I I O I	
	I=====I	
Dotted Rubber LINE	I I C I	*C'lear screen
	I=====I	
Solid Rubber LINE	I I N I	*N'o
	I=====I	
Stream LINE	I I Y I	*Y'es
	I=====I	

MOUSE SELECTED FUNCTIONS

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A variety of drawing aids are supported by MOUSE PAINT and these are described as follows:

HATCHED SHAPE FILL

This function is used to fill an area of screen with a closely spaced series of horizontal lines. The area filled is that blank screen which is surrounded by solid colour but according to the following: the first solid colour vertically below the cursor is found...this is the lower Fill limit. The first solid colour vertically above the Cursor is then found...this is the upper limit. Starting from the lower limit and working vertically upwards to the upper limit the blank screen is filled left and right up to solid colour with the hatched pattern.

SOLID SHAPE FILL

This function is identical to the Hatched Shape Fill except that the screen will be filled with solid colour.

PAINT

When this function is selected the Cursor may be used as a 'paint brush'. The procedure is to move the Cursor to the required position on the screen, depress the the Mouse button, and 'paint the screen' by moving the Mouse accordingly. The width of the brush may be altered by moving the Cursor to the bottom of the screen marked 'Brush width', moving the Cursor left or right to achieve the required width, (note the size of the brush is displayed at the right hand end of this window) and then returning the Cursor to the picture screen. It is not necessary to press any Mouse buttons for this procedure.

TEXT

Text may be displayed in the picture by firstly preparing the required message at the prompt 'Enter text' at the bottom of the screen. The text line should be terminated by the RETURN key. The Cursor is then positioned at the required position and the Left Mouse button pressed to transfer the text line to the picture.

ELLIPSE

Ellipses may be drawn by designating the centre of the Ellipse and then a point through which the Ellipse should pass. The Ellipse function will then perform the appropriate calculations to display the Ellipse. The centre of the Ellipse is designated by moving the Cursor to the required position in the picture and pressing the Left Mouse button:- a single dot confirms this position. The Cursor is then moved to a point through which the Ellipse should pass and the Left Mouse button pressed again. The Ellipse will then be drawn accordingly. The Right Mouse button may be used to abort and restart this operation.

CIRCLE

Circles are drawn in an identical manner to the Ellipses.

RECTANGLE

Rectangles are drawn by first designating one corner by positioning the Cursor accordingly and then pressing the Left Mouse button. The Cursor may then be moved away from this position and it will be seen that a rectangle is displayed, its length and width continuously changing as the Cursor is moved around the picture, the Cursor being "fixed" to the opposite corner of the rectangle. Once it is satisfied that the rectangle is correct placed, the Left Mouse button is pressed to complete the function. The Right Mouse button may be used to abort and restart this function.

DOTTED CORRECTED LINE

A Corrected line is one which is adjusted to be either horizontal or vertical. A Dotted Corrected Line is drawn by firstly designating the start point by moving the Cursor to the required position and pressing the Left Mouse button. The Cursor would then be moved to the end position and the Left Mouse button pressed to initiate the drawing operation.

SOLID CORRECTED LINE

A Solid Corrected Line is drawn identical to the Dotted Corrected Line.

DOTTED RUBBER LINE

A Rubber Line is drawn by first designating one end of the line by positioning the Cursor accordingly and then pressing the Left Mouse button. The Cursor may then be moved away from this point and it will be seen that a Dotted line is drawn connecting the Cursor with the initial designated point. Once it is satisfied that the line is correct, the Left Mouse button is pressed to complete the function.

SOLID RUBBER LINE

A Solid Rubber Line is produced in the same manner as the Dotted Rubber Line.

STREAM LINE

This function allows the continuous display of dots wherever the Cursor lies whilst the left Mouse button is pressed.

SAVE PICTURE

The entire picture or indeed a portion of it may be saved to disk by selecting this function. When the Save Picture is selected the user will be requested to position the Cursor firstly at the top left of the area to be saved. Pressing the Left Mouse button will designate this. A 'Rubber Rectangle' will then be controlled by the Cursor and when satisfied with the enclosed area the user should press the Left Mouse button again to confirm this. A prompt will then be made for a Filename which should be a DFS compatible name after which the appropriate screen will be saved to disk.

LOAD PICTURE

This function is used to load a previously saved picture. It should be noted that the new picture will 'exclusive or' anything already on the screen. This means that pictures may be constructed from a number of previously saved files.

COLOUR 0,1,2,3

The colour used for drawing etc is from selecting one of these four functions. Note that Colour 0 is black and may therefore be used effectively as a 'rubber'.

CLEAR SCREEN

Used to clear the entire screen ready for a new picture or for loading a picture from disk. The user will be prompted to confirm this by moving the Cursor to the 'Y'es Window and selecting the Left Cursor key to continue.

FUNCTION KEYS

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MOUSE PAINT uses a number of Function keys within its command repertoire. These are described as follows:

FN 1 PRINTER

Used to initiate the print screen function the user will first be prompted to confirm the selection. Type 'Y' then RETURN to print else any other key to abort. The printer must support the EPSON Graphics codes for this to work correctly. MOUSE PAINT supports a four colour screen and the printout of colours will be in the form of a fine pattern to simulate this.

Graphics screen dumps are a slow process so do not think there is something wrong if printing appears a little slow.

FN 2 does nothing

FN 3 does nothing

FN 4 'M'OUSE / 'T'RACKER BALL

Although MOUSE PAINT was developed primarily for the Mouse it is also possible to use a Tracker Ball. Function key 4 will toggle between selecting the Mouse routines and the Tracker Ball routines.

FN 5 BACKGROUND COLOUR (COLOUR 0)

Background colour can be changed using this Function key. Colour will alternate between Black and Blue on each successive selection.

FN 6 COLOUR 1

Colour 1 may be selected Red and Magenta and is reflected in Window 2 (C1).

FN 7 COLOUR 2

Colour 2 may be selected between Green and Cyan. The appropriate colour is reflected in Window 2 (C2).

FN 8 FOREGROUND COLOUR (COLOUR 3)

The foreground colour is selectable between White and Yellow.

FN 9 does nothing

FN 0 BLANK FUNCTION WINDOWS

This function may be used to blank the Windows 2 and 3. This is useful if the user wishes to use the entire screen for a picture.