A NEW DAWN

MACRO for CONSTRUCTION &



A MACRO-PROGRAM for the making of HOME COMPUTER MOVIES

from

pinehurst data studios

for use with 18K SPECTRUM commuter.

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MACRO CONSTRUCTION & ANIMATION

an innovative personal computer idea from

Pinehurst Data Studios

Dear Customer,

Thank you for showing an interest in this new and exciting hobby for the home-computer enthusiast. The MCA program is the result of many hundreds of hours

of research and experimentation, and every effort has been made to tailor the program around every need of the 'home movie-maker', The writing of the program was extremely challenging, and as well as a fair share of headaches, brought much pleasure,

I sincerely hope your new seguisition will bring you, too. much pleasure, and I wish you many happy hours of creative animated story-making.

BACKUP ICO PLYBally. ON TAPE

LOADING THE TAPE REVERSE

The program on the tape cassette will just about fill the memory of the 48K Spectrum computer. In order to ensure trouble-free loading please start off with a completely clean computer memory. To be sure, please disconnect the Spectrum from its power for a couple of seconds and then reconnect. The makers' copyright line should then appear on the screen. Make sure that computer is correctly connected to the tape recorder, and place MCA cassette in recorder, LABEL SIDE UP. Press computer key J for LOAD and then hold down SYMBOL SHIFT (next to M) and press P. TWICK so that you have LOAD " " on the screen. Press ENTER and stort the tape recorder on PLAY. The loading will continue throughout two processes, one of about 3 minutes and the second about half a minute or so. As soon as you hear sounds from the computer and things begin happening on the screen ... STOP THE TAPE, You may then sit back and watch the Pineburst demonstration which should give you an idea of the program's capabilities. You

may find loading best at half volume or slightly lower.

I'VE SEEN THE DEMONSTRATION ... WHAT NOW?

After the demonstration, you have the full power of Macro Construction and Animation in your hands!

THIS IS THE POINT AT WHICH YOU MUST READ AND UNDERSTAND WHAT FOLLOWS IN THIS BOOKLET, because MCA is very powerful, and you will no doubt want to be able to get the very best from it.

lower case letters mode. That is one reason why you are asked to start with a clean computer memory, which includes this state. DO NOT press CAPS SHIPT except where this booklet tells you to,

IMPORTANT - no caps please The MCA program is written assuming that the computer stays in

and NEVER press CAPS SHIFT and CAPS LOCK during MCA. Please note that the information in this booklet applies only to the predicted behaviour of the 48K Spectrum computer when loaded with MCA program. It in no way is intended to depict the functioning of the computer under other conditions. This applies in particular to such functions as DRAW, in which the tedium of entering parameters defining the position of the drawn line on the screen is made unnecessary by the automatic positioning which this program provides. Some other similar instances are BORDER and CLS, which are made easy for the story-writer to perform. BUT JUST FOR STARTERS, without reading further, and while the cursor is a flushing '?' in the too left-hand corner of the screen. pross the computer key 'C', and, you will be asked to see list. Next press M then R (for man walking to the right) and press 'ENTER'. To the question COLOUR? press a colour key which will contrast with the screen colour, say zero (4) for black, When asked SPEED 1 to 5, press '5'. The cursor will now turn to a letter M printed over the head and shoulders of a figure facing right. Move this across the screen by holding down the arrow key '8' for say half a screen width. Now simply press '&' (zero) to end the movement cycle, and press 'P' and watch! Your figure will come running in from the left, where it was originally created, and stop just where you made it stop. You can repeat the performance by pressing R for replay, and then pressing ENTER. Or you can destroy what you

have done and start again by pressing just ENTER if you prefer.

Next, try the same for UFO (press C, then U, then ENTER), and
give the craft a red top and a green bottom. Now read on ...

ABOUT SEQUENCES, CONSTRUCTIONAL AIDS AND THE CAST

A SEQUINCE is concelling which you initiate as soon as you select meets which you want to take place. It can take two forms, The Constructional Add sequence is selected simply by pressing the lettered less appropriate, it terrors of this program, to the soliton required, Examples are press '0' for circle construction, "He for receipts a rectangle, etc. Other keys have to be pressed in numerosism during the expected construction, as prompted to numerosism during the sepaceae construction, as prompted to such stops."

The other type of sequence is the calling of a member of cast. This member may be animate or insanimate, e.g., a man or a girl, or a helicopter, UPO etc. etc. To call cast you first have to press say 'G' which cells the computer that you will next be selecting a cast member, which is enforced as a simple abbreviation of the cast member accleted, e.g. 'g' for girl walking to right.

In both these types of sequence selection and description, you are not allowed to forget any information, as full prompting is given at each stage.

There are two types of cast selection sognesses, a moving one, in which you call up a cost amenter, asy mas walking to fright, mr, and, having described his colour and walfing (or running) speed, move him persons the errore. You then have to tell the computer whan you have moved him enough, by entire the sequence with the zero key, W. This key has been chosen for the servence and the zero key, W. This key has been chosen for the servence with the zero key, W. This key has been chosen for the servence have yellow the servence and the servence of the person of the servence has been considered to the servence and the servence has been considered to sequence the required.

Thon there are constructional aids which are not sequences in themselves, but are grained on to the sequence following their selection. These are C15.8 aereen colour, PODIDEM, INSERTA PARISE, They are constructional aids as much as the others, but after selection they stuty? he followed by a sequence of one or other type or they will be lost on playback. In other words, you cannot end a story on a border colour change on its own, but if you will to do just this, you only have to create a dummy sequence after it, like create a single-spare rectangle of same colour as background.

THE CHRSOR

The Cursor is normally a flashing symbol '?'. In the beginning it is positioned in the extreme top left-hand corner of the useable screen area. It may be moved by the following methods:-

- By pressing any of the arrowed keys, '5', '6', '7' & '8', when it
 will move one step in the direction of the arrow, or repeated
 steps if a key is held depressed,
- By holding down the SYMBOL SHIFT key (next to 'M'), and simultaneously pressing one of the arrowed keys. This makes the cursor shoot across the screen in a single action the extreme edge of screen, and is very useful in quick repositioning.
- By holding down SYMBOL SHIFT and pressing key 'C' which
 makes the cursor reposition to centre of screen.
 By pressing any of the keys 'T', 'Y', 'U' & 'I' which gives
- diagonal movement in stops, repeated if key is held down, T moves current down and to left, y moves it yan dato left, U moves it up and to left, but the part of left, U moves it up and to right and I moves it down and to right. Before attempting my nimitation it would be size to familitative yourself with all these cursor movements, so that you can bound! From the short-cuts they offer, Move the curron revaul the access until you are quite used to the idea, but always remember that when processing ("I to centre cursors on severen you. MUST hold SYMBOL SHIFT down while you do it, or you will be asked what member of cast you would like?

The curron symbol changes from '9' to 'D' when the 'drawing a line' mode is selected, and to 'b' when creating rectangles or road-slopes. When making a member of cast move it changes to 'M' (for movement) and when writing captions it changes to '' 'b' (for movement) and when writing captions it changes to '' 'b' donote quotation. Those functions are all asylained in detail individually in this booklet, on separate pages for easy reference.

The cursor, of course, is not visible in any film you create, but only used during its actual construction, to denote where things are at any time, and to show what mode has been selected.

DIAGONAL MOVEMENTS

The constructional aids are as follows:-

RECTANGIE. Create a rectangle of any colour, any dimensions, including the whole screen, such that it may fished or not hidd may members of east within its area. In addition to the colours selected by keys 0 to 7, you can select the BRIGHT mode of colours 4, 6 and 7, simply by pressing SYMBOI. SHIFT whilst selecting colour. See RECTANGIE page for full details.

ROOF SLOPES Produce a stepped slanting hypotenuse on an isoscelos triangle, in any of the colours mentioned in Rectangle above, and also may hide or not hide any cast in the area. Roof slopes may be created sloping down to left or to right, See ROOF-SLOPE sage for details.

ROOF-SLOPE page for details.

DRAW Draws a line of any colour, and length between the top left of any one cursor position to the same of any other cursor position.

of any one cursor position to the same of any other cursor position. May be coloured same as background, when it will be untable UNITA a rectangle or roof-stope is created over it in non-hilling mode of a different colour, when it will appear in the colour of original background. Useful for drawing fences, window frame divisions and for laner-apping, when a line is drawn then stiped out Soo DRAW. PAIRS: May be acketed between our two secumence or constructions.

PAUSE May be selected between any two sequences or constructional aids, and may be chosen as any number of seconds from 1 to 9. Pause is essential in the proper ordering of sequences in any story.

Pauso is essential in the proper ordering of sequences in any story, BORDER Colour of border may be changed between any two sequences or constructional aids. See CLS and BORDER page.

CLS or CLEAR SCREEN AND GIVE IT A SELECTED COLOUR
This can be done at any time between any two sequences or constructional aids and will wipe out ALL material on screen and make screen

the colour chosen. Useful when changing scenes in a story.

CIRCLE You can create circles, either hollow or filled-in, in any colour, for sun, moon, and modify their colours, hide and wake them recupport. Very useful to of or creating bollows.

any colour, for sun, moon, and monity their colours, into and
make them reappear. Very useful, too, for creating balloons
in which to write the speech of a member of cast, or even what
it is thinking! (...thinks...).

DELETE Any sequence may be deleted by pressing D after sequence completion. So can the sequence before by pressing it again! But see appropriate sections for full details on the above facilities.

RECTANGLE

A rectangle may be created in any one of 13 colours, and it can range in size from a single character-square (size of a single letter-space) right up to the size of the full screen. Set the cursor (when it is flashing? symbol) to the position you

want to be the top left-hand corner of the rectangle, and simply press R. Immediately, you will be asked what colour of rectangle you require. In reply to this you may press any of the colour keys, 0 to 7, or if you want BRIGHT versions of colours 3 to 7, then you simply hold down the SYMBOL SHIFT key (next to M) and at the same time press the key corresponding with the colour you want. This BRIGHT function will only work in the program on colour keys 3 to 7. The cursor will now have changed from its familiar flashing ? form. Now you may move the cursor to any position to the right of, and/or below, the original cursor position, or simply leave the cursor where it is if you want only a single character-space rectangle. When you move the cursor, you will notice the original position of cursor is marked by a stationary 'a' symbol. This allows you to remember where you started, whilst the cursor now becomes a flashing '*' wherever you move it. You can draw single-character space height rectangles by moving the cursor horizontally to the right, or singlecharacter space width vertical rectangles by moving cursor vertically downwards. If you want to produce a true square, then use key 'I' to move the cursor diagonally downwards to the right till you reach the position required for the bottom right-hand corner. Whatever form you chose, when you are satisfied with the finishing position, press zero. O key. The computer will then ask you if you wish to "HIDE CAST IN AREA? (y/n)". You may now press Y for yes or N for no depending on whether you want any item of cast inside rectangle area to be hidden, or to remain in its original colour or colours.

The program will report an error if the finish position of a rectangle is either above the start position, or to the left of the start position or both. It's best to keep to the simple rules!

You can create blue sky by starting rectangle construction with cursor in top left-hand corner of screen, centering it using SYMBOL SHIPT and key C, then move it to right extreme using SYMBOL SHIPT and key S, then pressing zero, \$\tilde{\top}\$ - then Y or N depending on whether there are now one members in the area and if you wish to hidde them,

ROOF-SLOPES - left and right

Look executally at the keys for numbers 1 and 2, and notice the Graphica symbols on theore two loys. They are microve-images of the control of the control of the control of the control of the two coveres, resulting and part of the two courses, resulting and the impression of a steeped slope to the right and the symbol on two? has the opposition, giving the impression of a steeped slope to the left. That is why these two keys have been chosen for the left and right allowed row lands of the control of the left. That is why these two keys have been chosen for the left and right allowed row lands and the control of the left.

Using roof-alopou is similar to creating rootangles, in terms of colour, but differs mainly in that you MUST choose a finishing point DRECTLY BELOW the starting point, and this MUST represent a vortical line directly above the HOTTOM OF THE SLOPE.
This is a best understood by referring to the rootangle and roof-alopout diagrams, and then trying a few cuserimental once for varyeoff.

To select a roof-slope sloping down to the left, green the key 2 when the curron is in 7 mode, and pestioned at the right heighf for the roof-slope triangle, but directly OVER the position where the slope must sent. Then select colone, rether a key number zero to 7, or for DRIGHT, SYMBOL SHITTed keps 3 to 7. Now move the curron couldn'd will have a "st the original curron position) move changed to", and will licace a "a the original curron position from the curron curron special position for bottom of alone (see diagram). Now press zero 0, which will have been construction, you will be anded whether you won't to believe or graph construction, you will be anded whether you won't to believe or graph care. Press P or N, and the

You can add portspective to (any) a left roof-elope by first creating a triangle by left roof-elope, (bey 2 in parthage green, the meaning the cursor one square to the right and, using the same positions, but one square to the right, creat another left roof-elope almost veri the top of the first, but in BRIGHT green, when the first slope's edge will appear to be at an angle to the second (main) triangle.

To create right-sloping roof slopes, simply follow the same routine, but solect key 1 to call-up the slope. Remember, the cursor must still define the height of the triangle, as measured over the BOTTOM of the slope. Roof slopes are also useful as store up to a building. RECTANGLES & ROOF-SLOPES
How to Position of Cursor when you press 'R' for RECTANGLE

Position of Cursor when you terminate sequence by pressing 'Q'

Position of Cursor when you press 'R' for RECTANGLE

Position of Cursor when you terminate sequence by pressing 'G'
Position of Cursor when you press 'R' for RECTANGLE

Position of Cursor when you terminate sequence by pressing 'Ø'

Position of Cursor when you press '2' for left ROOF-SLOPE

Position of Cursor when you terminate sequence by pressing 'g'
Position of Cursor when you press 'l' for right ROOF-SLOPE

Position of Cursor when you terminate sequence by pressing '\$\oldsymbol{G}'\$

<u>Ploage note</u> that only the outlines of the shapes called-up are shown here, for purposes of illustration, But when you create a RECTANGLE

or ROOP-SLOPE in the program, the whole area assumes the colour which you have chosen for it.

Rectangles are used to create housee, windows, doors open and shut, sky, distant sky in BRIGHT colour, grass, distant grass in BRIGHT colour and many other situations, including 'hiding a member of cast for future' materialisation' if required! For this you create a rectangle she came colour as the backeround, and orees 'V' when

asked if you want to hide the cast in its area.

CLS & BORDER - and DRAW

CLS (or Clear Screen of all material and give screen selected colour)

This may be done mytime between two sequences. It cannot be done if no acquence follows it, i. e., a the end of a series of sequences. This is because it achially forms the initial part of the sequence following it. Nor end it be done in the middle of a single sequence, e.g., the initial part of the sequence of the middle of anoving a character across the across the cree, in the class of the control of the c

BORDE

DORDER works as normal use on the computer, casept that when you press BOIDER (key 1'4) the conspicer immediately asks you what colour border you would like. You then toseth a colour leys as for C18 above, and the border colour immediately close. Like C18 to broader command MUST he before a sequence, or it will be lost adding a sequence after it, only the account or whose adding a sequence after it, only the account or whose adding a sequence after it, only the account or whose properties and the account or whose after it will be accorded or whose properties from the properties of the account or whose account of the account of t

DRAW

This is a very simple sequence of the constructional aid type, Unilize rectangle creation, it has no rules as to where it begins or ends, you can draw from the top left-hand corner of the current at one point to the same at any other point on the screen, in any other colours of the colours of the point of the same at any other point on the screen, in any other colours of the property of the colours of the property of the colours of the c

This is a very useful constructional aid, allowing sun, moon, round objects in the sky or elsewind such grows estrink, and were near circles around the written remarks made by members of 'east'. It is selected by simply precasing (cobrisolay enough) the key lettered O. The circle key I was deliberately not used, because of the included to the simple of the control of the control

this computer, as denoted by the red lettering under the key,

So when you require a circle or disc centered on the cursor '9 you simply press key letter 'O', and you will be asked colour of circle. Any colour of to 7 can be selected. Next, you will be asked what diameter you require, and be told what is the maximum you can have with the cursor in its present position, without exceeding the screen area. You can type in numbers of more than one digit, including decimals, using SYMBOL SHIFTed M for the docimal point. Minimum satisfactory diameter is .5 for nonfilled in circles, but there are certain diameters which may make imperfect discs when filled in. Units of diameter are in character squares, and you should try to got used to entering the DIAMETER not radius. In the long run this is more convenient in nicture creation. After entering the diameter, you have to press ENTER. PRINTING 'OVER" This facility has been provided to allow a progressive vanishing of a disc from inside or outside, or of a hollow circle. To print circle OVER you select circle by holding CAPS SHIFT down while you press letter O. If you are likely to want to over-print a circle or disc to make it vanish progressively. try to remember to print both the original and the wiping-out circles in over mode, i.e. select both by CAPS SHIFT letter 'O'. INSTANT APPEARANCE OF SUN, MOON ETC. Do this by choos-

ing a colour background the same as the required colour of object, and create a rectangle in the area in this colour. Then print a dies of the same colour where required, and finally create a rectangle over the first (or part of the first for sam on horizon) this time of another colour. Finish rectangle by not hidding cast. For most scenaric outline in filled-in diese and bost texture, it is best to cayful the over mode, particularly with small dismeters.

The selection or calling of members of the cast consists of pressing Vet for call or east. When this is done the computer will refer you to the cast list, in this list you will notice that all selections consist of one or more letters, within are always an abherviation of the cast members they represent; this makes things easy to remember, You simply type in the abbreviation and then prose ENTER key.

The computer will now sak for a colour, or for the larger cast members, colour of top. You samply press the appropriate colour-key. After this, you will normally be asked whit speed you want the object to move at when played back, and you gress a key numbered 1 to 0, 5 being fastest. On some selections, other questions will be anked, which are unswerved, again by a nighe keystroke (no ENTRR),

A bloop will be heard and the cursor will become a flashing M. superimposed on the head of the figure, if a figure has been selected, You move the cursor (and the cast momber) in the appropriate direction by the arrowed keys 5 to 8, or, if diagonal movement is required, by keys T. Y. U or I (see CURSOR page). In the Movement mode, you CANNOT use the quick-positioning dodge of using SYMBOL SHIPT as you can when the cursor is in '?' mode, but you can use repeat by holding an arrowed or diagonal movement key down. When in the movement mode a bleep will be heard each time a movement key is pressed, or repeats if held pressed. When the cast member has reached its required destination, you can end the sequence in one of two ways. Press zero, 'G' and the object will cease to move and oursor will revert to a flashing ?", leaving the cast member printed on the screen. Alternatively, you can end the sequence by pressing 'V' (for VANISII), when the cast member will be instantly erased at the last step of its movement. This is particularly useful when you want a figure to walk behind a house ... make it vanish when it reaches the house edge, insert a pause of suitable length. then recall the figure just beyond the other house-wall edge. It is also useful to dematerialise a UFO or other craft at the edge of the screen.

Each time a cast member is selected, the sequence number in the bottom left-hand corner of the screen increases by one count. It decreases when DELETE is used

12 SELECTING A TUNE - FROM MEMORY

Selection of a time calready written and in the mamory under a number 1 to 9) in the same as selecting a member of onst. You pross C for call cast, then PT and ENTER. You will then be asked to pross anumber of time you want payed at this part of the story. You press the number key, and you will be asked if you want it played now or not (yft). If yes, it will be played, proveded that there is a time in that number slet, Whether you want it played now concern sequence number in the sarry, for playing it in playbuch. It is vise to listen to the time when selecting it to make were it's the right one, and not empty. If empty or vergo now, use DELETE.

CALLING FOR 'WRITING A TUNE'

Again, this is just like calling-up a member of cast, except that no sequence reservation is made in the story program, i.e. the sequence number, bottom left of the screen, is not incremented. To call WRITE TUNE, press 'C' for call, then enter 'WT' and press ENTER. You will then be told what the first vacant tune number space is. * and asked if you are happy with this. Normally, you will be, and will answer 'Y'. But you may want to overwrite an existing tune with a now one. If you say Y you will be told the computer is in tunewriting mode, but if you say N you will be asked which tune you wish to alter/rewrite. So you enter the number you wish to alter and the computer will then play the tune as it is at present, so as to allow you to be sure of your actions. After this, it will give you the ontions of adding to the end of the time (which also allows you to delete notes backwards from the end and rewrite them), to completely rowrite the tune, or decide afterall not to alter it at all (STORE, S) If you opt for ADD TO, the time will again be played before WRITING MODE occurs, to refresh your memory of the tune as it exists,

WRITE TUNE can be called at my time without interferency with the propropose of the construction of a story. But PLAY TUNE adds the sequences to the list of sequences for subsequent replay, but can be deleted with DELETER the same as often sequences (see DELETE).

* First vacent number is towest number usused. Numbers after this may be convenied on see

THE WRITING OF A TUNE

It is assumed at this stage that you have arrived at the TUNE

WRITING MODE store of the tune writing part of the program

(see CALLING FOR 'WRITING A TUNE').

Once in this mode, you are ready to compose your own tune, but

you need not be nervous in case you make a mistake, as note deletio is very simple. Imagine the keys numbered 1 to 8 are the white

notes on a piano or other keyboard and that '1' is middle C, and '8' is top C. So, for keys 1 to 8 we have ... C.D.E.F.G.A.B.C. Try playing the scale, but stop for a moment after playing the first

note, key 1. You will now be told that you have played note No. 1. and reminded that for a single tune you are allowed up to 99 notes. This is not such a limitation, as 99 notes take quite a time to play, You will have noticed that you are also told you are in Octave No. 1. and, if you have no loud noise in the room you will have heard the

note you played coming from the computer. Now continue with the scale, but when you reach key 8, hold it down for the note to repeat say four times ... ok?. Try that bit out now by pressing zero. Of then 'P' for PLAY, and the scale you played will be played back, rather quickly, with a long duration note on the last note. The theory of music will not be gone into here, but a lot of experiments went into the system allowing an easy way of varying note duration, and you should find the final system quite easy to get used to. If you are playing a quick tune or passage of a tune, then only allow a single best when you press the keys. A best plus a repeal will give a longer note, etc., up to 6, when no longer notes will be possible. Now try a few notes by pressing '9' between them, after. of course, having first got back into writing mode by pressing 'R'

(RE-DO). '9' gives a pause between notes, but only a short one. but it can be repeated for longer pauses, but each one counts as a note on the note counter. Sharps and flats are explained later. Now, in the middle of a series of notes, press 'R' and continue playing. The pitch will have risen by an octave, and the octave number will now read 2. Things will remain unchanged until you press 'L' when octave 1 will again return, Pressing 'L' again will now take you to octave Q, which is the lowest in this program.

After re-entering time-writing mode, octove always resets to 1. R & L stand for raise and lower octave

14 Writing a Tune (cont'd)
You will have noticed that as you press '9' for a pause, you heard a high-pitched note. This note is only to confirm that a pause has been selected, and does NOT form part of the tune.

boar selected, and does NOT form part of the time, Not all times can be composed using only the white notes C to C of a keyboard. Provision has been made in this program to play the bisca toole as required. In the key of C, these are called sharps and fish, but a block note which is a flat to the enext higher white note, is also a sharp to the white acts below 1. So the program when not, is also a sharp to the white acts below 1. So the program of the control of the

NOTE DELETE (for use at any time if you press the wrong note!)
At any time when you are composing, you can end the tune tempor-

arily by pressing Ø, and play it back so far, by pressing P, (PLAY). You can then, after listening to it, add to it by pressing A (ADD-TO), when it will play again to refresh your memory. Say your tune was o.k. except for the third to last note. When in the tune-writing mode, press 'D', for DELETE, and you will hear a low note. At the same time the note number will decrease by one, This means the last note has been deleted. Press D two more times and you will have deleted the offending wrong note, and you can correct it, and finish the time, hopefully correctly, We have now covered all aspects of tune composition, and it only remains for you to get some practice in. Most people will find the system simple to get used to in a short time. Incidentally, you can completely destroy a tune by going into writing mode as if to compose, then pressing '&' immediately. The final filing of a tune result, with or without notes in it, only occurs when you answer the question "STORE" with 'S', when a triumphant sound will be heard

and the time number will be confirmed so that you know how to call

un that time in future.

CAPTIONS, ANNOTATIONS or QUOTATIONS - Typewriter Mode The writing of words on the screen is done by a constructional aid type of sequence, in that it does not require you to call it me with 'C'. When you want a member of cast to "speak", you simply position the cursor (in free mode, i.e. when it is '7') to the right of the cast member, or above it, and press 'Q'. You will then be asked what colour you want the printing to appear in and told that if you choose '9' it will contrast with the background, i.e. black if background is a light colour or white if background is dark. So you select your colour (single key-stroke, \$ to 7 or 9 contrast), and the computer bleeps and the cursor becomes flashing inverted commas. " . You can now write your caption, or at least the first line of it. In writing captions, you may, whenever you wish, use the CAPS SHIFT (left, bottom of keyboard) to give capital letters. This is a rare case in which you should use the caps shift in this program. You may also use the SYMBOL SHIFT in order to print things like ? and ! and & if you need them. When you have put all you want on the first line, complete the sequence by pressing 'O' (as with all other sequences) and move the cursor to the next line down and to the left to begin the next line of caption. Note that the progression of the (") -mode cursor is automatic towards the right as you type the caption, and it cannot be positioned by the normal cursor direction keys in mode O. So. if you make a mistake simply end the sequence (press '6') and use DELETE SEQUENCE and re-do the wrong part of the caption. If you approach the righthand edge of the screen too close, you will be given a warning, eventually followed by the advice to re-do the line, starting further in from edge. On this warning you may type one more letter ONLY plus the end of sequence 'G'. If you do not use DELETE after a mistake, but simply start a new caption over the old one, BOTH will come out in sequence in the replay, the wrong one first. INSTANT PRINTING. Normally, captions come out on replay, letter by letter. In the order they were written. If you want them to appear instantly, you can do so by typing them in the same colour as the background (as long as the background is not a BRIGHT colour), and then creating a rectangle over the whole caption, in a contrasting colour, and ending the rectangle with 'N' (for not hiding cost in area). The printing will then assume the colour is which it was printed. Note that printing spaces over print

DRAW items or cast members permanently erases them.

DELETE - a - Secuence

16

DELETE may be used as often as you find necessary during storycompiling and its function is to delete the last segmence completed. The procedure is very simple; so simple in fact that a safeguard has been incorporated to prevent accidental use. Suppose for a moment that you had created a house with windows and doors, inserted a suitable pause and then called-up a standing figure in the doorway. Then you suddenly realise that you should have opened the door before showing the figure! All you have to do is to press 'D' for DELETE. The computer will then tell you you have asked to delete sequence No. (say) 10, and ask you if you are sure. If you are sure you enter 'Y' and press ENTER, when the sequence number 10 in the left-hand bottom corner of the screen will change to 9, denoting that sequence 10 has been deleted and when played back the figure will not appear at the door. So you can now arrange for a rectangle of a different colour to the door down one half of the door to give the appearance of the door half-opening (which is more effective than changing colour of the whole door), and then put your standing figure in the open part of the doorway. Note that, if there is an error in the sequences further back, which you want to correct. then you must either destroy all subsequent sequences, working back from the last, or re-do the whole story from scratch. You cannot delete midsequences. If you use DELETE for a moving sequence, e.g. a figure walking or running across the screen, be sure that you have completed the sequence first (with 'Q' or 'V'. When you have deleted, and play back, you will find the whole creation of the figure and its movement will be absent. In the final story. On the other hand, if you make a mistake in selecting DELETE, you only have to answer'N' when asked if you are sure, and normal story composition mode is resumed as If nothing had happened. DELETE will work with any sequence, either a cast-call sequence or constructional aid, in fact, anything which has a sequence number,

Use it on Rectangle, Roof-slope, Draw, cast call sequence of stationary or moving cast members, or Play Tune call, as well as captions ('Q' for quotation - Lypewriter mode sequence). But remember that each line of Quotation has to be a separate sequence so you only delete one line at a time when deleting printing from a story, DELETE will erase a cast member if sequence was cast, but will leave other items at the construction or writing stage, making them

absent from replay, though,

CONSTRUCTIONAL AIDS

Each of the following sides are called direct by their appropriate keys; i.e., you do NOT press: U' as they are not members of least'. Add type.

Press key lettered RecTAROLE

RECTAROLE

RECTAROLE

ROD-SLOPE LEFT 2 colours as above. ROD-SLOPE RIGHT 1 2s above. All above.

ROOF-SLOPE RIGHT 1 As above, All above may hide or not hide and control to the say cask in their area.

DRAW w Colours 0 to 7 only. May be wiped out by DIAWing over same. PAUSE M Pause before next sequence 1 to 9 need.

seguence 1 to 9 sees. Changes Border colour at start of next sequence, (0 to 7). Deletes last sequence DELETE after checking validity. CLEAR SCREEN Removes all material from screen and gives screen colour 0 to 7. SAME Calls last member of east to be called, so saving having to call and repeat colour etc. but asks for new speed

QUOTATION Q Colors 9 to 7 (Special Date of the color of t

The following may each be called whenever the cursor is in '?' mode and automatic correction is made should cursor be placed too close

gr

st

or

orr

etr

ar

hite

'MEMBERS OF CAST' LISTING

to edge of screen area to accommodate complete graphic. Calling procedure is press 'C' for call, or cast, then type in exact code, which is an abbreviation of graphic representation required. Then press ENTER. The waving figure, standing figure and front-facing choice of certain other figures are not moveable, and sequence ends with their appearance on the screen. Otherwise, where movement is available, or chosen, they are moved by the arrow keys 5 to 8 and diagonally by keys T. Y. U & I (see The Cursor page). Sequence of movement is ended by pressing @ zero leaving graphic on screen, or by V which makes it vanish at end of its travel. If deleting a sequence, complete it first with Q, (see DELETE).

DESCRIPTION

Man walking to right

Girl walking to right * Figure standing

(choice of facing l, r or f) Pigure waving

Figure climbing facing right

Cat walking to right * Car moving to right

Bear walking to right *

Extra-terrestrial walking to right Astronaut walking to rt . Bird flying to right *

Motorevele to right Helicopter to right g. UPO, saucer type

*means these selections allow you to choose stationary front-facing view also, except bird which faces way you selected when settled. % separate colours for top and bottom halves (or rider and bike), The calls for WRITE THEE and PLAY THEE (at & pt) are dealt with in the appropriate sections.

(symmetrical)

Call Coding DESCRIPTION Call Coding

w (speed of wave selectable, one wave

...left

...left

...left

left 4

...left

...left

...left s

...left *

...left *

...left

left

per calling)

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bdl

SAVING YOUR MASTERPIECES ON TAPE

After having made a few try-out stories and played them back, you are no doubt itching by now to get a story on tape, so that you can load the computer with it at any time you like, and show your friends your brainchild!

Saving on tape is made especially easy for you. You are advised to use a C I ocassette for saving your stories, perhaps one story to be a constant to the saving source and the saving source is too stages each, rotal time about 3½ contains the saving of the saving saving the saving saving the process entirely reliable.

After playing a story, and being satisfied with the result, you can out the computer program into saving mode by pressing T and then ENTER. This action has been deliberately made two-stage to prevent accidental taping mode or accidental erasure of story! A bleen will sound after entering T and you will be asked to enter a title for your story. Be sure to fit this into a total of 11 keypresses maximum, and if you don't want a name, then enter a single space. Press ENTER and you will hear a bleep and be reminded to check that recorder is connected & ready to go. Make sure tope is a blank or unimportant one, and that you have run it from its end to the end of the coloured leader-tape. When all is well, press ENTER and you will be told to press ENTER once more, having started the recorder on RECORD first. Saving will now take place and last approximately 3 minutes. Stay nearby, as after this time there will be a bloop and you will be asked to press ENTER again. Do this as soon as you can when asked, and after about 30 seconds the story will be saved. Most recorders now have built-in level controls which are automatic, and volume setting is not necessary, If you use a manual record-level machine, please do an experimental run or two on short stories to find best volume for record and loading, because you only get ONE CHANCE to save your story, After saying a story on tane it is ESSENTIAL to disconnect the computer and re-load the MCA tape before attempting to make new stories. But your masterpiece, once saved, can be replayed as often as you like when it ends, by pressing ENTER as instructed,

20 IF YOU GET AN ERROR MESSAGE OR ACCIDENTALLY 'BREAK'

The program has been extensively tested and error messages

The program has been extensively tested and error meaningue should not occur in the normal men of things. But when you are in typewriter mode, (QUOTATION, when cursor is "), and if you are printing a cuption is easy with the CAPS SHITP fown, and if you pross SFACE while CAPS SHITP is down you will break into program. The best remedy is not lot left happen, but if it does, then prosa C for Continue, then ENTER. There will be a space, as you intended, in the printing on the serces, but MOT in the computer's memory. If you want a space at this point on polyhook, we are to add unabotic, as that there are two genes together where the promising for playbacky, and if find just one space, (tort this for yourself by sulpack you will find just one space, (tort this for yourself by sulpack you will be expensed with zero and

Any other error message will probably be a freak condition in which the copusion grids a wrong bit of information for one technical reague or another. It is unlikely that C for continue will put the program book to work, as the error will still be present, depending on what its nature is. If this falls, you may have to type G for goto, I. This will destroy the story to far, represtably, that the likelyhood of an error message under normal working of this program is so small that it is hardly worth long along over its happening.

NEVER TRUE

screen and it's all yours!

NEVER RUN' Under no droumstances must this program, MCA be RUN in the normal way. That is why you have been told, if in real trouble with an error message or whatever, to type GOTO 1.

BY-PASSING THE MCA DEMONSTRATION STORY. YOu may well tire of having to wait for our demonstration show to finish each time you want to make up your rost story. On such consists, the remedy is quite simple. Billion in the program of the program of

Similarly, if you want to over-write the tames 1 and 2 you can (see WRITING A TUNE). No. 1 is God Save the Queen, and No.2 is (copycight circa 1966, B.H. Bally) called Space-Train. On the other hand, the criter would never turn down any voluntary toyall should was turn a consequence them shows they would not reclice it. Stories may be started with black border and black screen by using BORDER and CLS and pressing zero for each colour. Be careful not to make the first member of east black also, though, or it will not be seen! It is quite a good idea to produce sky and (say) grass as soon as possible, and certainly before creating a house ofc. or anything else in the rectangle or roof-slope category. These are all in 'psper' colour, and will wipe onesmother out , i.e. If you oring a blue rectangle over a red one, the blue will take over where they overlap. But members of east may be moved over any of these paner-printed greas, without disturbance. Remember too that DRAW is in ink colour, like the cast members, and will be erased by a cast member passing over it, just as east will be wined out by gast. This latter is fortunate, because without it you would not be able to bring a stationary figure back to life to make it walk or run about when you wanted to. DRAW is a PRINT OVER function which means that if two identical DRAWs are superimposed, the second wipes out the first one. USE PLENTY OF PAUSES in your story-creation. Normally, a 1 or 2 sec. ususe should do but where you want to add autoense pop in a 5-second pause!

The three non-sequence effects, C.18 AND CHARGE SCHERN COLOUR (septing the dear of EVERTHING), ROUBLES (colour change and PAINES (no-many seconds 1 to 9) may all to done at once during playbock, by done, then respectively and following there's vinany sequence, construction or cast. If you want to change server any sequence, construction or cast. If you want to change server segreen, and if you want HARM. (CHICLE) or cast memberary to remain, then end the rectungle with it go to hake eart in array, remain, then end the rectungle with it go to hake eart in array, remain, then end the rectungle with it go to hake eart in array, remain, then end the rectungle with it go to hake eart in array, remain, then end the rectungle with it go to hake eart in array, remain, then end the sequence of the sequence of the sequence outling report by using cause colour as background for each, dien until expected by using cause colour as background for each, dien work out how the effects in it, again without hiding east. Thy and work out how the effects in it, again without hiding east. Thy and the techniques expediable to pope.

You are asked to observe copyright eliquette, since the program is remainful priced and handreds of writing hours, full-time, should reasonably be expected to bring fair reward. Pleane write if you have suggestions for improvements or other comments extend to the artifular invariation is home community use.