The Ottawa


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MロL!MmE S NMMIEAER S - - - November 1SSN
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DONT'T FORGET THE MEETING - - November 61990
and remember to return your exchange newsletters...

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P-D. BOX 2144.STATION D,DTTAWA
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\begin{tabular}{|c|c|c|}
\hline November Meeting: & 6. \(\mathrm{NO}_{3} \mathrm{~V}_{\mathrm{PM}}{ }^{1990}\) & Merivale High School \\
\hline TI-BASE Workshop: & TBP (check at next club mtg and on the BBS) & \begin{tabular}{l}
Bill Sponchia's home. \\
No need to call if you were \\
at the first meeting, but \\
if you are a newcomer, please \\
let Bill know so he will have \\
an ldea of what to prepare for.
\end{tabular} \\
\hline December Meeting: & \[
\begin{aligned}
& 4 \mathrm{Dec}_{\mathrm{PM}}^{1990} \\
& 7: 30
\end{aligned}
\] & Merivale High School \\
\hline January Meeting: & \[
\begin{aligned}
& 8 \\
& 7: 30 \mathrm{Jan} \\
& 1991
\end{aligned}
\] & Merivale High School \\
\hline Newsletter Deadiine: & 15 Nov 1990 & (16 Nov. If Uploaded to BBS!) \\
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\end{tabular}

\section*{BDITOR's NOTES}
by Rhilio Enareis
Well once again we're down to a slimedition of our Newsletter. In fact one could almost call this month's edition "Lucie's Newsletter" since both main articles are written by Lucle Dorais. There was in fact one other article offered by illi Gard, and that will be published in next month's edition. You will also note that the front cover is in \(B \in W\) this month instead of our usual colour. Why you ask? Well it's a sign of the times, slmple economics. We're now looking at cutting out the colour front and turning to a high quality photo copying service as oppose to the present "printing" method of producing each issue. The drawbacks with printing are the initial plate" cost when only 100 issues are printed and the need to work in 8 , 12 , 16 , etc page sizes. Hence the reason Bill's (2 page) article was not included, since to do so would have required an additional two pages of material that \(f\) didn't have. In addition, it will be better this way, since I already have two pages for next month and need only a minimum of two more to make a complete issue, In other words, there is no use printing a 16 page Newsletter one month and then struggle for material next month. The photocopying (if just single sheet) will allow for a greater variety of page numbers.

Lucie's "Some Thoughts" article will touch on a familiar cord. one of the approaches discussed at the last Exec Mtg was that a number of us ardent Tiers are using IBM clone machines in our day-to-day work, while still keeping current With our TI's at home. The way the club wishes to approach the "other Computers" issue, is to allow a special interest group to operate under the umbrella of the TIOUG. I myself use an IEM clone (80286) at work and since my introduction to it last year I've become quite familiar with it and learned some tricks about MS-Dos. I am continuely helping others that are fust learning to use DOS and popular software like word perfect to become more familiar and comfortable with the dos environment. I can't stand to see someones CGA or VGA monitor with a C:> prompt and flashing cursor on a BW screen, but if you don't know how to write simple Batch pgrms to display a Menu and invoke the screen colours, then that's all you'll have. So the intent of the special group is to integrate TIers with IBM (or other computers) at the grass-roots level, and that way we will all benefit. Don't worry as Lucie says there are still things that the \(T I\) does easler/better than an 1 BM.

As I write this, we did not have our october executive meeting yet, but I do know that one, question will come up: should we open up to other computers or not? This question has been discussed at the executive level in the past, and each time we have decided a big No, me above everyone else. But...
We are getting into a situation where the membership is dwindling down; one reason is that some members have switched to other computers namely PCs. As a trial. we have opened an nother computers" section in the fBS, and it is very active Good people, like LLoyd Galenzoski and Dan McCormick, are regulars. Part-time PC users'like Jane Laflamme, Tom Bentley, Dick Piche, Bill Sponchia and me also add their grain of salt, for the benefif of all.
of course I would like the TI group to go on forever, but my three consoles are all sick or at least weak and I have to face the fact that one day my TI W1ll be gone... and I CANNOT Lfve WIThOUT a COMPUTER IN MY LIFE! Can you? Aren't we all in the same boat?
Opening the Group to other computers does not mean we will drop the TI, but perhaps stress the links between both worlds. And they exlst. There are programs to read a TI disk on a PC and copy text flles, by Jerome Gobuyan; Genial Computerware's PC-TRANSFER does the opposite you can copy text, Multiplan and other types of files from a PC disk right into your Tif you can even download a TI file on a PC if you are temporarily stuck with only that computer. Some people, lucky enough to have both computers side by side, have been transferring files directly by an RS232 cable. And now Mr. Galenzoski has written an assembly program that allows TIWriter to load text files that were uploaded on the BBS from a PC (look for it in area 8 of our BBS, current version is called IBMTI;CI.

Here are some of my experiences into both worlds. For some years now I have been working on a catalog to be published soon by the National Archives. My texts were all written at home on my TI since when we started the project my office had zero computers... When I finally got a PC at work all inad to do was to copy the flles on an PC diskette using PC-TRANSFBK, then put the finishing touches with Word perfect. The \(\ddagger 1{ }^{\text {fes }}\) were then given to the typesetting people, and the texts that were born on our "humble TI will be printed with nobody having to retype them.
Another example: Ron Wolcott, with his TIPS system, to which Terrence Murphy added some very fast utilities, has provided the TI world with thousands of pictures that were born on PCs. In fact this month's cover uses two of them. Ir remember seeing that frog in the PC program PRINT SHOP, and I made a hard copy (at a friend's house), but I never had the courage to re-draw it on the TI. I am giad someone else provided the means for me to finally use it!
And in case you worry about my Extended Basic column, no need to: I had a PC laptop at home for the past two months. When i brought it in, i had great hopes of playing with GWBASIC, typing lots of programs. Well, I didmy CALENDAR because ilight need it at work then a game that i found in a magazine and that's it: it is so clumsy that I came back to our own XB With renewed love.

These are my thoughts on the subject. We need you as much as you need us, but we also need new, fresh blood. This Group has been kept alive because the people in 1t are great people. Those who left for other pastures were also great people, and we would like to see them back. Wouldn't it be nice to continue the relationship forever?

Lucie Dorais

This month，we continue our VISUAL PERCEPTION explorations with three more puzzles：Which is the longest line？（a classic），Say the color（a sort of game） and another classic，What do you see？

Last month，we typed（？？？）the menu module，and the two subs that are used by all the program modules．In case you don＇t have this issue，and still want to play with this month＇s program modules，here are the two global subs：

1000 ！aP＋＊＊global subs＊＊
1010 DISPLAY AT（ 24,7 ）：＂PRESS ANY KEY \({ }^{\prime \prime}\)
1020 CALL \(\operatorname{KEY}(0, \mathrm{~K}, \mathrm{~s}):: \operatorname{IF} \mathrm{S}=0\) THEN \(10{ }^{2} 20\) ELSE RETURN
\(1030 \operatorname{SUB} \operatorname{SCR}(X)\) ：：CALL CLEAR ：：SALL SCREEN（X）：：SUBEND
WHICH IS THE LONGEST．．displays two lines on the screen and asks you which 1 s the longest．This is often reproduced in books，but with Tex we can actually demonstrate it：after you have entered your answer，the two lines will move closer to each other so you can study them better．

500 ！
510 REM＊＊which is the longest？＊＊


540 CALL CHAR（102 NOO ＂0002040810204080＂105，＂0080402010090402＂）
\(550 \mathrm{R}=2\) ：\(: \mathrm{RR}=20: \mathrm{C}=2 \mathrm{C}: \mathrm{CC}=9 \quad:: \operatorname{CALL} \operatorname{COLOR}(9,2,1,10,2,1):: \operatorname{GOSUB} 640\)


570 GOSUB 1020 ：：IF K 49 OR K＞51 THEN 570
580 FOR \(X=10\) TO 14 ：DISPLAY AT（ \(X\) ， 1 ）\({ }^{n n}:\) NEXT \(X\)



 GOSUB 1010 ：：GOTO 140
630 ！sub


To confuse the viewer，the two lines are＂decorated＂with endings，that we redefine in lines 530－540．We then define the starting rows for the top ilne， R，and the bottom line．RR，then their left column，C and CC．The lines will be black．We GOSUB 640 to display them on the screen，then Tex asks you the question．The GOSUB 1020 will get your answer．
The text is then erased（line 580）and the two lines start their movement towards the center：their present position at rows \(R\) and RR are first erased， then the top row is incremented by two while the bottom row is decremented by two the columns are respectively incremented and decremented by one only until the top line sits at column 6：this is where they stop．Since fex kept your answer in memory（key pressed），he can tell you il you were right or wrong．．and give you the answer．
So you see there is no challenge for you in this puzzle，but there was some in programming it！

SAY THE COLOR．．．is more like a game；I saw it in a television program about psychology and found it more difficult that it sounded．The computer displays words that tell a color，but with a twist：the words themselves are written in various colors，and not necessarily in the color told by the word．Fire game is to try to tell the color the word is written with，NOT the color toid by the word．
Since I wanted the words big but did not want to redefine a lot of characters， I settled for sprites：we will use the normal TI character definitions but magnified twice，so they appear twice as big．Sprites have one default though： you cannot have more than four on the same line，otherwise one disappears．

Also, when you color or move them, this is done sequentially, so if you want quick action, you have to keep them low in number. Therefore my cholce of three letters maximum for each color: RED, BLU 'blues, GRN 'greens and YEL cyellows. Another choice was made concerning them: gince the CALL SPRITE statement, with all its parameters, takes a long time to be interpreted and done, we call the four sprites only once then we hide them below the bottom row' of the screen when we don't need them; CALL LOCATE, in a sub, moves them around.

660 !
670 : ** say the color **
680 CALL SCR (4) : : CALL MAGNIFY(2)
690 DISPLAY AT 1,9\():\) "SAY THE COLOR...": : : "IN THIS EXERCISE, YOU WILL SEE THE FOLLOWING WORDS:"
700 DISPLAY AT \((8,4)\) : \({ }^{\text {RRED }}\) BLU GRN YEL": : :"TRY TO SAY THE COLOR USED
710 DISPLAY AT (14 1): "ं
TRY.. "A : AND ERESS ANY KEY WHEN YOU HAVE ENOUGH!"
720 DATA \(66,76,85,71,88,78,89,69,76,82,69,68,5,3,12,7\)
 NEXT X : : GOSUB 1010
740 RANDOMIZE :: CALL SCR(2) :: FOR X=1 TO 4 :: READ \(A(X):: Y=X:: G O S U B 810\) \(\therefore\) NEXT X
750 CALL \(\operatorname{KEY}(0, K, S):: ~ I F ~ S=0 ~ T H E N ~ 760 ~ E L S E ~ C A L L ~ D E L S P R I T E(A L L) ~:: ~ C A L L ~ S C R(4) ~\) :: GOTO 770
\(760 \dot{X}=I N T(4 *\) RND \()+1:: Y=I N T(4 * R N D)+1::\) GOSUB \(810::\) GOTO 750
770 DISPLAY AT (5 1): SSO HOW WAS IT??? \(:\) : IT IS NOT THAT EASY FOR THE BRAIN TO FORGET THE WORD ANDCONCENTRATE ON THE COLOR . \({ }^{\prime \prime}\)
780 DISPLAY AT ( 13,1 ):"THIS IS EESA: SE YOUR BRAIN HÄS GIVEN THE WORD BEFORE YOUR CONSCIOUS THOUGHT CAN RESFOND."
790 GOSUB 1010 :: GOTO 140
800 subs
 CALL COLOR (SC, CC, SC+1, CC \(I S C+2, C C)\)
820 GOSUB 830 : \(:\) FOR \(B=1\) TO \(200: \leq\) NEXT \(D:: R=193::\) GOSUB \(830::\) RETURN
830 CALL LOCATE ( \(\mathrm{SC}, \mathrm{R}, \mathrm{C}, \mathrm{SC}+1, \mathrm{R}, \mathrm{C}+16,1 \mathrm{SC}+2, \mathrm{R}, \mathrm{C}+32\) ) :: RETURN
The DATA in line 720 is for the letter sprites: the numbers are the ASCII values of characters \(B, L\), \(U\), \(G\), etc. Before we READ the data, we need to RESTORE Tex to the first one, fust in case Tex had got lost in another module. transparent, and hidden in pixelrow 193 which is below the screen's field of display (the screen has \(24 \times 8=192\) plxelrows). Thls belng done while you
read the text displayed by lines \(690-710\), Tex now gosubs 1010 for the key read the text displayed by lines 690-710, Tex now gosubs 1010 for the key press.
In line 720 , there are four DATA values at the end that are not ASCII values: they are the four colors that we will use ( \(5=\) blue, \(3=g r e e n, 12=y e l l o w, ~ 7=r e d\) ). The screen is made black in line 740 (a call to our user-def SUB) but you can try other colors that might look better on your monitor (mine does not like to be painted white at all...) These four colors are put into the array A(X). In the same loop, \(Y\) takes the value of \(X\) in this game, \(Y\) is the variable used for the word that will be displayed, while \(x\) is the variable for the color it will be written with. To give your brain some exerclse while Tex fills A(x), it shows you the four words into the ir true color (RED in red, GRN in green).
Then the game starts... With a CALL KEY, because you can end it any time by pressing any keys if none \(1 s\) pressed \((S=0)\), you go to the next line, where both the word \(Y\) and its color \(X\) are chosen randomly; of course they can sometimes correspond, but more often than not they don't.
The actual display of the colored words \(1 s\) done by the sub in lines 810-820. CC takes the COLOR value kept in the \(A(X)\) array; \(S C\) is the sprite number corresponding to the first sprite of each group of three, therefore y determines the WORD displayed (if \(Y=2\) SC Will be 4 and sprites t to 16 correspond to characters 71-82-78, GRN; Y 3 is for YEL, etc). Pixelrow R and pixelcolumn \(C\) are also chosen randomly our three sprites, from SC to SC+2, are then colored by cc. The actual display of the sprites is done by the cal LOCATE sub in ilne 830 since our sprites are magnified twice, the distance between each character is 16 pixelcolums (two Ti normal characters). The D delay in line 820 gives you a few seconds to read the word and tell its color (not its meaning!) before our sprites are sent back into hiding at row 193.

When you press a key to end the game (line 750), the sprites disappear, and you are sent to another screen display of text, then a key press to get back to the menu that we typed last month. If you want to play only with this part of the program, type in ilnes 670-830, plus innes 1000-1030 for the global subs, and replace the GOTO 140 by END in line 790.

The last puzzle is fust a graphlc display that you have to decipher.
\[
840
\]

850 ! ** what do you see? **
860 CALL SCR (10) : CD SPLAY AT \((1,7)\) : "WHAT DO YOU SEE?": : : : " WHEN YOU PRESS A KEY ":" YOU WILL SEE A PICTURE. "
870 DISPLAY AT \(\left(\xi\right.\) 3): "LOOK AT IT FOR A WHILE." ": " \({ }^{\prime \prime}\) WHEN YOU THINK YOU KNOW":"

880 GOSJB \(1010:\) CALL SCR (2) \(: C A L L C O L O R(962,2,10,2,2)\)
 \(\therefore\) GOSUB 990
 :: GOSUB 990

920 DISPLAY AT (4'9) '"láaaaaaaaah": BS\&"coaaaadaaak": B\$\&"claaaaaaaah": B\$\& \({ }^{n}\) cclaaaaaaaah"
930 DISPLAY AT(9 9) :"CClaaaaaah"iB\$\&"Ccclaaaah": B\$\&"cccmaaaai":
940 DISPLAY AT ( 14,9 ) :"cccmaaaai": B\$\&"ccclaaaah": B\$\&"cccmaaaai":

950 CALL COLOR \((9,2,16,10,2,16): \operatorname{GOSUB} 1020:: \operatorname{CALL} \operatorname{SCR}(10)\)
 : : "YOU ARE EQUALLY RIGHT..."
970 GOSUB 1010 : : GOTO 140
980 sub
990 CALL CHAR (X,A\$\&C\$\&B\$\&D\$\&B\$\&C§\&A\$\&D\$) : : RETURN
Since the graphlc is built along simple lines, the characters all have a common look, so simplified the character definitions process by splitting them into varlábles. Line 890 concerns characters 104-107 and ine 900 characters 108-111. Doesn't it look better than two 64-char-long strings? All the sub in ine 990 has to do is put the variables in the right order. More characters are defined in line 910 , as well as a line made up of eight spaces.

Lines 920-940 display the graphic. Careful! All the characters are lower case letters, so it is an \({ }^{\prime \prime}\) ", not a "1" (one), that you need to type. When the display is done the picture appears by magic when we color the characters (they were colored black on black in line 880 ). The GOSUB 1020 waits for you to press a key; when you do, you get the answer to the puzzle, another key press, and a return to the main menu (or you can END here is you type only this moculej.

And to fill the page, two more visual perception puzzles:

???

\section*{HOTLIME KUMBERB}
The executive has expressed a degire to assist all members should you have gomeproblems or questions want to do some library gwapping or borrow a book. ThisWill be the place to look. Listed here are the members of the executivecommittee heads, and others in the group willing to help in their specializedareas. Of course, if you wish to be placed on the list, just give me a call.I know there 19 a lot of expertise within our Group, go i hope to add to thisilst. Please respect normal hours unless you specifically know that someonedoesn't mind a call at \(3 \mathrm{a} . \mathrm{m}\)., or use the BBS to leave a message at 738-0617,24 hours a day, 7 days a week.
???????????? PRESIDENT

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\section*{PROM}
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