C65 Notepad

Manual

(for Version 1.0)

```
Page 1 [ 1, 0]            [F1 = Menu]          *** C65 NOTEPAD V1.0 ***
```

A simple text notepad for the C65

You need one of this options to use C65 notepad:

- C65
- MEGA 65
- Nexys A7 board with MEGA 65 bitstream
- Xemu emulator (xc65 or xmega65)

Because C65 notepad uses BASIC 10 commands which are only implemented in the latest ROM, you have to use at least the C65 ROM "911001.bin".

If you use a patched C65 ROM "911001_ae.bin" or higher, you can display german umlauts and the Euro symbol. You can find the patch "AE" with instructions here:

https://www.forum64.de/index.php?thread/101225-c65-rom-patch-ae-with-german-umlauts

C65 notepad is for free. Use it and have fun.

If you like C65 notepad, a donation to the "Seehundstation Norddeich" (seehundstation-norddeich.de) will be very welcome. You can use a donation with Paypal (a link for it can be found at the website) or a bank transfer:

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C65 Notepad was programmed
by Guenther Reiter (mail: 65software@gmx.de)
in July 2020

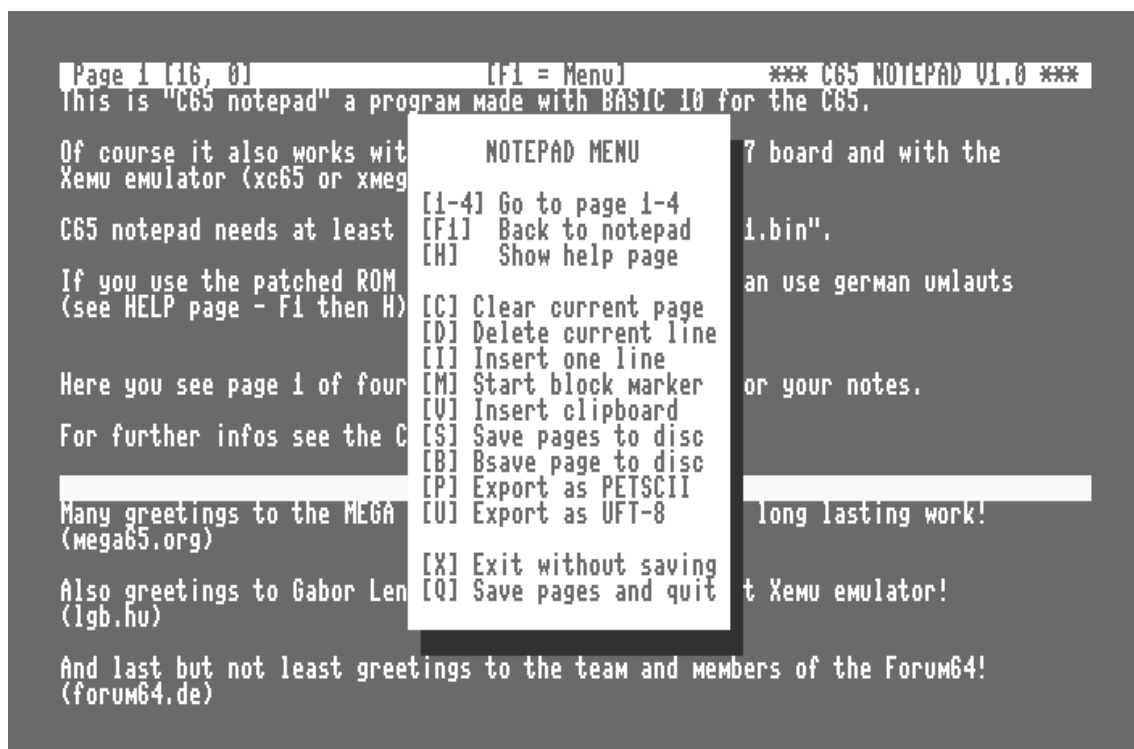# Content

1. What is C65 Notepad and what not?

C65 Notepad is ...

... a simple text notepad (with four pages) to type in short text notes which could be saved on disc in the internal disc drive.

It could be used e.g. for notes about the programs on the disc (like readme docs etc.), a shopping list, your favorite cookie recipe, collect your ideas or whatever you want to take a short note of.

C65 Notepad is not ...

... a wordprocessor to type your long loveletter to your sweetheart, your newest bestseller novel or your dissertation.

```
Page 1 [16, 0]                [F1 = Menu]        *** C65 NOTEPAD V1.0 ***
This is "C65 notepad" a program made with BASIC 10 for the C65.

Of course it also works wit         NOTEPAD MENU        7 board and with the
Xemu emulator (xc65 or xmeg
                             [1-4] Go to page 1-4
C65 notepad needs at least   [F1]  Back to notepad   1.bin".
                             [H]   Show help page
If you use the patched ROM                           an use german umlauts
(see HELP page - F1 then H)  [C] Clear current page
                             [D] Delete current line
                             [I] Insert one line
Here you see page 1 of four  [M] Start block marker   or your notes.
                             [V] Insert clipboard
For further infos see the C  [S] Save pages to disc
                             [B] Bsave page to disc
                             [P] Export as PETSCII
Many greetings to the MEGA   [U] Export as UFT-8      long lasting work!
(mega65.org)
                             [X] Exit without saving
Also greetings to Gabor Len  [Q] Save pages and quit  t Xemu emulator!
(lgb.hu)

And last but not least greetings to the team and members of the Forum64!
(forum64.de)
```

(Figure: Menu screen of C65 notepad)

2. Start C65 Notepad

To start C65 Notepad insert the program disc and type

RUN "C65NOTEPAD"

After start the program reads the file "NPAGES" from the disc, if it exists. Otherwise all four pages are empty.

The first page is shown and all your typing is in the first page. You can see the current page in the upper left corner of the screen. The current position of the cursor is shown next to the page display as <line, column>.

3. Typing notes

You can type your notes with the help of some special keys:

< INST > Insert one character and shift the right characters in the line one position to the right.

< DEL >   Delete one charachter an shift the right characters in the line one position to the left.

< HOME > Set cursor home (into the upper left position 1,0).

< TAB >   Set the cursor to the next tab position (every 8th column in the current line).

You can use the whole page for your text (24 lines and 80 columns each). The current position of the cursor is shown in the title bar as <line, column>.

4. Using the menu

With pressing the F1 key (or ESC key) you open the menu page.
In the background your current line was shown in yellow
color.

You have the following options with pressing the appropriate
key:

< 1 >	Go to page 1
< 2 >	Go to page 2
< 3 >	Go to page 3
< 4 >	Go to page 4
< F1 > or < ESC >	Go back to notepad
< H >	Show the HELP page
< C >	Clear the current page
< D >	Delete the current line
< I >	Insert one line and shift the lines below one line down
< M >	Start block marker
< V >	Insert the content of clipboard to current position
< S >	Save all four pages to disc
< B >	Bsave current page for BLOAD to disc
< P >	Export the current page as PETSCII text
< U >	Export the current page as UFT-8 text
< X >	Exit notepad without saving the pages
< Q >	Save all pages and quit notepad

5. Description of the menu options

In the menu you can chose among the options as mentioned in the last chapter.

Below you can find the descriptions of the menu options who need some more words about.

5.1. Mark the begin of a block < M >

With pressing < M > in the menu you set the starting point of a block to the current position of the cursor.

In the titlebar you can see a blinking message "<M> mark/<D> del" and the current cursor turns to yellow.

You can move the cursor and the text between the starting point and the current positions turns to yellow background. So you can easily see which text section you have marked.

If you press < D >, the selected block is deleted.

By pressing < M > you set the ending point of the block to the current cursor position. The selected text is copied into the clipboard and you can see a "C" in the titlebar (for clipboard).

5.2. Insert the content of the clipboard < V >

By pressing < V > the content of the clipboard is insert at the current position.

You can insert the content as often as you like, because after inserting it the clipboard will be not deleted.

Only if you mark a new text and copy it into to clipboard the old text will be deleted.

You can copy the text to every page of C65 notepade and not only to that page from which you get it.

5.3. Save pages to disc < S >

By pressing < S > you can save all four pages to disc. The file is named "NPAGES" and uses 33 blocks on disc.

You can not change the filename. If you save the pages an existing file "NPAGES" will be deleted.

If you want to backup a saved file, you can use the BASIC command COPY to copy the file to a file with another filename:

COPY "NPAGES" TO "MYFILENAME"

5.4. Bsave page to disc < B >

Pressing < B > saves the current page to disc. The file is named "BPAGE1", "BPAGE2", "BPAGE3" or "BPAGE4" depending on your current page number and uses 8 blocks on disc.

You can not change the filename. If you save the page an existing file "BPAGES<x>" will be deleted.

If you want to backup a saved file, you can use the BASIC command COPY to copy the file to a file with another filename like:

COPY "BPAGES1" TO "MYBPAGE1"

The Bsave option saves the page only for external use. The created file is not used for loading the text into C65 notepad again.

You can show the saved page with the BASIC command:

BLOAD "BPAGE1", P 2048, B O
(this shows the saved page 1)

Or you can use the program "README" which is stored on the program disc. For further details see below.

5.5. Export page as PETSCII text < P >

Pressing < P > exports the text of the current page a sequential text file in PETSCII format to disc.

The filename depends on the current page and is for instance for page 1 "BTEXT1PETSCII".

You can not change the filename. If you save the page an existing file "BTEXT<x>PETSCII" will be deleted.

If you want to backup a saved file, you can use the BASIC command COPY to copy the file to a file with another filename like:

COPY "BTEXT1PETSCII" TO "MYBTEXT1PETSCII"

You can show the saved PETSCII text with the BASIC command:

TYPE "BTEXT1PETSCII"
(shows the saved PETSCII text from paged 1)

5.6. Export page as UTF-8 text < U >

Pressing < U > exports the text of the current page a
sequential text file in UTF-8 format to disc. This format
allows to use the text in nearly all current computer
systems.

The filename depends on the current page and is for instance
for page 1 "BTEXT1UTF8".

You can not change the filename. If you save the page an
existing file "BTEXT<x>UTF8" will be deleted.

If you want to backup a saved file, you can use the BASIC
command COPY to copy the file to a file with another filename
like:

COPY "BTEXT1UTF8" TO "MYBTEXT1UTF8"

To use the UTF-8 formated text from the disc, you need the
help of an external program. I recommend for that purpose
"DirMaster/Style" (style64.org/dirmaster) which can open a
disc image file (*.D81), display the directory of the disc
and allow to export a file to the harddrive of your current
computer.

After starting DirMaster you have to open your disc image in
which your UTF-8 formated text is saved. DirMaster shows you
the directory of this disc.
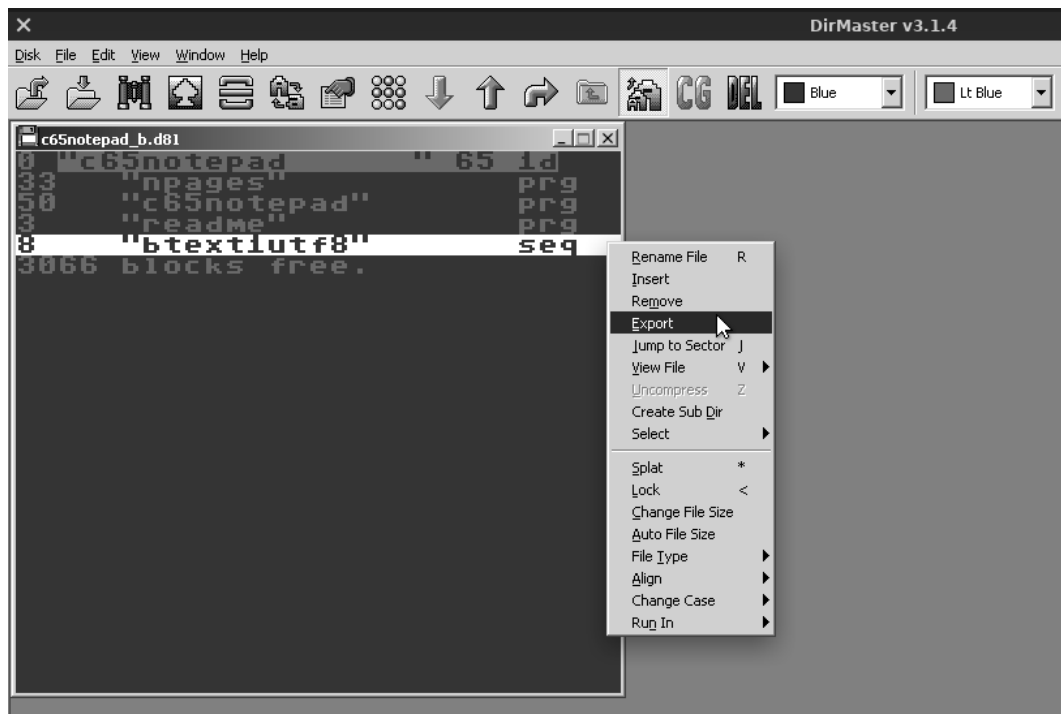
(Figure: Open and choose "Export" with DirMaster)

Select the file with a right mouse click and chose the option
"Export". Be aware that you have to select "PETSCII (*.seq)"
as the file type before your save the file.
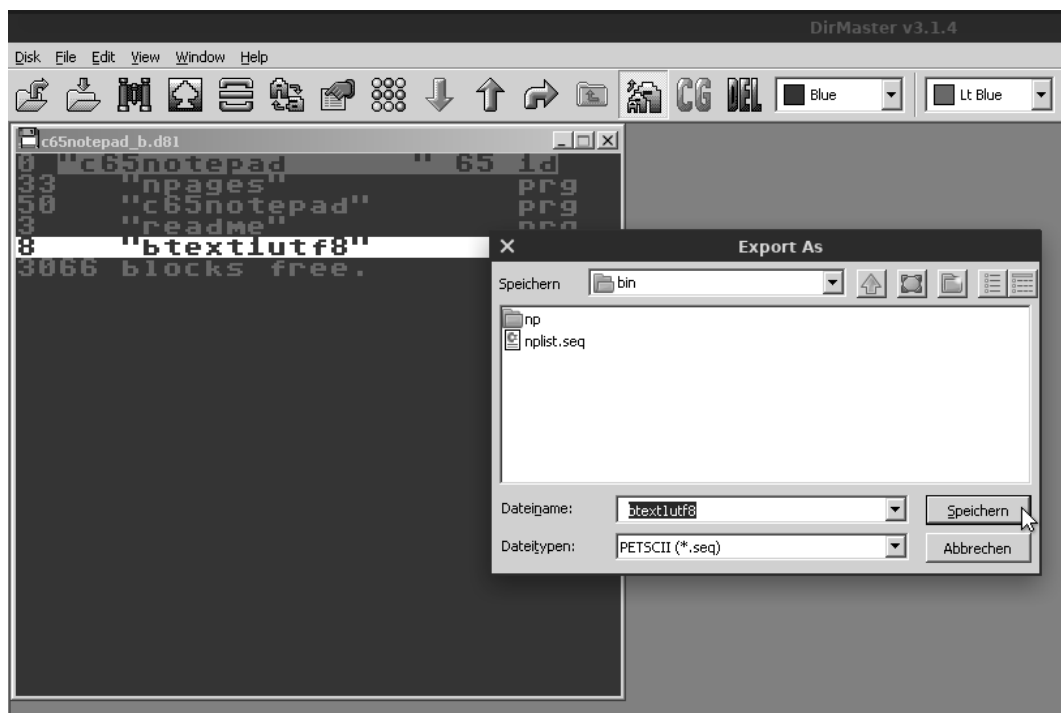
(Figure: Export file with file type "PESTSCII (*.seq)")

Finally rename the saved file into a file with the file extension for text files (*.txt).

You can open and display the file correctly with almost every modern text editor.

5.7. Exit C65 notepad without saving the pages < X >

With pressing < X > you leave C65 notepad. Be aware, that the pages are not saved before you exit. Any text changes since your last save will be lost.

5.8. Save pages and quit C65 notepad < Q >

By pressing < Q > all pages are saved to disc with filename "NPAGES". An existing file with that name will be deleted before saving. After that the C65 notpad will be closed.

6. Some hints using C65 notepad

6.1. German umlauts

If you use a patched C65 ROM (at least patch "AE"), you can type and display german umlauts (Ä,Ö,Ü,ä,ö,ü,ß) and the Euro symbol "€".

To write e.g. an "ä" you have to press the Commodore key (C=) together with the "A" key. The uppercase umlauts lay one row below and half right under the appropriate lowercase umlaut.

< C= > + < Z >	Ä
< C= > + < L >	Ö
< C= > + < J >	Ü
< C= > + < A >	ä
< C= > + < O >	ö
< C= > + < U >	ü
< C= > + < S >	ß
< C= > + < E >	€

For instructions and patch "AE" download see here:

https://www.forum64.de/index.php?thread/101225-c65-rom-patch-ae-with-german-umlauts

6.2. Use C65 notepad for creating readme files

To create a "readme file" for a disc of your software, you can easily use C65 notepad with the additional program "README" (which is included on the program disc).

First write your instructions or whatever you like text with C65 notepad. Start with page 1 and if you need more space go on with page 2, page 3 and page 4.

Save every page as "Bsave" (using the < B >) command to disc.

This way creates the file "BPAGE1" for the text of page 1 and appropiated files for the other pages.

Starting the program "README" (e.g. with RUN "README"), the first page ("BPAGE1") will be shown on screen and the program waits for a keypress.

If a second page file exists on disc ("BPAGE2") the program will show then this text ... and so on.

After the fourth page or if a further page file doesn't exists, the program clears the screen and stop.

So this is an easy way to produce explaining texts you can deliver together with your discs.

7. Sourcecode

"C65 notepad" and "Readme" are programmed with BASIC 10.

In the following pages you can find the sourcecode of
"Readme" and "C65 notepad".

```
10 rem readme for c65 notepad
20 rem
30 rem shows you the four screens (bpage...) saved by c65
notepad
40 rem
50 rem programmed by guenther reiter, 2020/07
60 rem
70 rem
80 scnclr
90 trap 180 : rem if page file not found, jump to end of
program
100 bload"bpage1",p 2048, b 0 : rem load "bpage1" into
screen
110 getkey k$ : rem wait for a keypress
120 bload"bpage2",p 2048, b 0 : rem load "bpage2" into
screen
130 getkey k$ : rem wait for a keypress
140 bload"bpage3",p 2048, b 0 : rem load "bpage3" into
screen
150 getkey k$ : rem wait for a keypress
160 bload"bpage4",p 2048, b 0 : rem load "bpage4" into
screen
170 getkey k$ : rem wait for a keypress
180 scnclr
190 end

ready.
```

```
10 rem c65 notepad v1.0
15 rem 2020/07 by guenther reiter
16 rem
20 dim u$(256):gosub 7000:rem set utf-8 export signs
21 key 1,chr$(27)
22 bk=4:cl=0
23 bank bk:poke 2048,65:p=peek(2048)
24 if (p=65) then goto 27
25 bk=bk+1:if bk=255 then goto 27
26 goto 23
27 rem set temp bank to correct number
30 rem trap 900 : rem on any error goto 900
35 border 6:background 6:foreground 1:scnclr
36 t$="sr                                   [F1 = Menu]
*** C65 NOTEPAD V1.0 ***"
37 print chr$(14):rem change to lowercase charset
38 print chr$(11):rem prevent switching to uppercase
charset
40 pg=1:cx=0:cy=1:bank 0:nt=0
41 trap 45
42 bload "npages",p 2048, b(bk): rem load pages from disc
into ram (bank bk)
44 goto 50
45 dma 3,2048*4,32,0,2048,bk : rem clear pages in bank bk
46 trap 900
50 dma 0,2000,2048*1,bk,2048,0 : rem display page 1
80 print t$;:poke 2127,160
90 print "sr Page"+str$(pg)+" ["+right$(str$
(cy),2)+","+right$(str$(cx),2)+"] `";
95 if cl>0  then cursor 49,0:print " C ";
100 p=2048+80*cy+cx:pp=peek(p):if (pp<128) then
pp=pp+128:goto 102
101 pp=pp-128
102 poke p,pp:bank 1:poke p+61440,8:bank 0:rem set cursor
color (red)
105 sk=1
110 getkey k$
112 if nt>0 then cursor 18,0:print "r
`";:nt=0
115 pp=peek(p)
116 if pp>128 then pp=pp-128:goto 119
118 pp=pp+128
119 poke p,pp:bank 1:poke p+61440,1 :bank 0
```

```
120 k=asc(k$)
129 if k=27   then gosub 2100 : rem escape
130 if k=148 then gosub 3800 : rem insert
131 if k=29   then gosub 1000 : rem cursor right
132 if k=157 then gosub 1100 : rem cursor left
133 if k=17   then gosub 1200 : rem cursor down
134 if k=145 then gosub 1300 : rem cursor up
135 if k=13   then gosub 1400 : rem return
136 if k=20   then gosub 1500 : rem delete (back)
143 if k=19 then gosub 3500 : rem home
144 if k=9 then gosub 3600 : rem tab
145 if sk=0 then goto 190
149 kp=k
150 if (k>-1)  and (k<32) then kp=k+128:goto 175
151 if (k>63)  and (k<96) then kp=k-64:goto 175
152 if (k>95)  and (k<160) then kp=k+64:goto 175
153 if (k>160) and (k<192) then kp=k-64:goto 175
154 if (k>191) and (k<224) then kp=k-128
175 p=2048+80*cy+cx:poke p,kp
180 cx=cx+1
185 if cx=80 then cx=0:cy=cy+1
187 if cy=25 then cy=1
190 goto 90
200 end
900 rem trap
910 scnclr
930 print " r *** C65 NOTEPAD V1.0 *** '":print chr$(12)
950 print "exit."
960 rem dma 3,14000,0,0,8192,0
990 end
999 rem
1000 rem cursor right
1010 cx=cx+1:sk=0
1020 if cx=80 then cy=cy+1:cx=0
1030 if cy=25 then cy=1
1040 return
1100 rem cursor left
1110 cx=cx-1:sk=0
1120 if cx=-1 then cy=cy-1:cx=79
1130 if cy=0   then cy=24
1140 return
1200 rem cursor down
1210 cy=cy+1:sk=0
```

```
1220 if cy=25 then cy=1
1240 return
1300 rem cursor up
1310 cy=cy-1:sk=0
1320 if cy=0 then cy=24
1340 return
1400 rem return
1410 cx=0:cy=cy+1:sk=0
1420 if cy=25 then cy=1
1430 return
1500 rem delete (back)
1510 cx=cx-1:k=32:sk=0
1520 if cx<0 then cx=0:goto 1590
1540 dma 0,2000,2048,0,2048*6,bk: rem store page 1 at temp
(bank bk)
1550 dma 0,80-cx-1,2048*6+80*cy+cx+1,bk,2048+80*cy+cx  ,0
1560 poke 2048+80*cy+79,32 : rem clear last char in line
cy
1590 return
1600 rem page 1
1610 dma 0,2000,2048,0,2048*pg,bk
1620 dma 0,2000,2048*1,bk,2048,0
1625 print t$;:poke 2127,160
1630 sk=0:pg=1:cx=0:cy=1
1640 return
1700 rem page 2
1710 dma 0,2000,2048,0,2048*pg,bk
1720 dma 0,2000,2048*2,bk,2048,0
1725 print t$;:poke 2127,160
1730 sk=0:pg=2:cx=0:cy=1
1740 return
1800 rem page 3
1810 dma 0,2000,2048,0,2048*pg,bk
1820 dma 0,2000,2048*3,bk,2048,0
1825 print t$;:poke 2127,160
1830 sk=0:pg=3:cx=0:cy=1
1840 return
1900 rem page 4
1910 dma 0,2000,2048,0,2048*pg,bk
1920 dma 0,2000,2048*4,bk,2048,0
1925 print t$;:poke 2127,160
1930 sk=0:pg=4:cx=0:cy=1
1940 return
```

```
2000 rem escape
2005 dma 0,2000,2048,0,2048*pg,bk
2010 scratch "npages"
2015 print " r *** C65 NOTEPAD V1.0 ***
'":print:print"saving pages to disc ..."
2020 bsave "npages",p 2048 to p (2048*5), b(bk)
2030 print:print "done.":print chr$(12)
2035 rem dma 3,14000,0,0,8192,0
2040 end
2050 rem exit
2055 print " r *** C65 NOTEPAD V1.0 *** '":print chr$(12)
2060 print "exit."
2070 rem  dma 3,14000,0,0,8192,0
2090 end
2100 rem menu
2102 dma 0,2000,2048,0,2048*pg,bk
2105 sk=0:wx=27
2106 bw$=chr$(144)+"r '"+chr$(5)
2107 dma 3,80, 7+32 ,1,dec("f800")+80*cy,1:rem set color
of current line
2110 cursor wx, 2:print "r                             '";
2120 cursor wx, 3:print "r        NOTEPAD MENU         '";bw$;
2130 cursor wx, 4:print "r                             '";bw$;
2140 cursor wx, 5:print "r [1-4] Go to page 1-4        '";bw$;
2142 cursor wx, 6:print "r [F1]  Back to notepad       '";bw$;
2150 cursor wx, 7:print "r [H]   Show help page        '";bw$;
2155 cursor wx, 8:print "r                             '";bw$;
2160 cursor wx, 9:print "r [C] Clear current page      '";bw$;
2180 cursor wx,10:print "r [D] Delete current line     '";bw$;
2200 cursor wx,11:print "r [I] Insert one line         '";bw$;
2210 cursor wx,12:print "r [M] Start block marker      '";bw$;
2215 cursor wx,13:print "r [V] Insert clipboard        '";bw$;
2220 cursor wx,14:print "r [S] Save pages to disc      '";bw$;
2225 cursor wx,15:print "r [B] Bsave page to disc      '";bw$;
2230 cursor wx,16:print "r [P] Export as PETSCII       '";bw$;
2235 cursor wx,17:print "r [U] Export as UFT-8         '";bw$;
2240 cursor wx,18:print "r                             '";bw$;
2320 cursor wx,19:print "r [X] Exit without saving '";bw$;
2340 cursor wx,20:print "r [Q] Save pages and quit '";bw$;
2350 cursor wx,21:print "r                             '";bw$;
2360 cursor wx+1,22:print chr$(144);"r
'";chr$(5);
2460 getkey k$
```

```
2470 dma 0,2000,2048*pg,bk,2048,0
2475 dma 3,2000,1,1,dec("f800"),1:rem set all color cells
to white (1)
2480 rem
2490 if (k$="q") or (k$="Q") then goto 2000
2500 if (k$="x") or (k$="X") then goto 2050
2510 if (k$="c") or (k$="C") then goto 3100
2520 if (k$="s") or (k$="S") then goto 3200
2530 if (k$="d") or (k$="D") then goto 3300
2540 if (k$="i") or (k$="I") then goto 3400
2545 if (k$="v") or (k$="V") then goto 5800
2550 if (k$="b") or (k$="B") then goto 3700
2552 if (k$="m") or (k$="M") then goto 4500
2553 if (k$="p") or (k$="P") then goto 3900
2555 if (k$="u") or (k$="U") then goto 5900
2557 if (k$="h") or (k$="H") then gosub 4200
2560 if (k$="1") then gosub 1600
2565 if (k$="2") then gosub 1700
2570 if (k$="3") then gosub 1800
2575 if (k$="4") then gosub 1900
2599 return
3000 rem help
3010 sk=0
3100 rem clear page
3120 dma 3,1920,32,0,2048+80,0 : rem clear page
3190 goto 90
3200 rem save pages
3205 dma 0,2000,2048,0,2048*pg,bk
3210 scratch "npages"
3215 cursor 18,0:print " saving ... ";
3216 dma 3,12,16+1,0,dec("f800")+18,1 : rem blink
3220 bsave "npages",p 2048 to p (2048*5), b(bk)
3230 cursor 18,0:print " pages saved ";:nt=1
3290 goto 90
3300 rem delete current line
3310 sk=0:sl=2048+80*cy
3340 dma 0,2000,2048,0,2048*6,bk: rem store page 1 at temp
(bank bk)
3350 dma 0,2000-(cy*80),2048*6+80*(cy+1),bk,sl,0
3360 dma 3,80,32,0,2048+80*24,0 : rem clear line 25
3390 goto 90
3400 rem insert one line
3410 sk=0:sl=2048+80*cy
```

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```
3420 rem    poke sl,65
3430 rem dma 3,80,65,0,sl,0 : rem clear line
3440 dma 0,2000,2048,0,2048*6,bk: rem store page 1 at temp
(bank bk)
3450 dma 0,2000-(cy*80),2048*6+80*(cy-1),bk,sl,0: rem
store page 1 at temp
3460 dma 3,80,32,0,sl,0 : rem clear current line
3490 goto 90
3500 rem home
3510 cx=0: cy=1:sk=0
3590 return
3600 rem tab
3610 sk=0:cx=(int(cx/8)+1)*8
3620 if cx>79 then cx=79
3690 return
3700 rem bsave page to disc
3710 sk=0:f$="bpage"+right$(str$(pg),1)
3715 dma 0,2000,2048,0,2048*6,bk: rem store page 1 at temp
(bank bk)
3717 dma 3,80,32,0,2048,0 : rem clear line 0
3720 scratch(f$)
3730 bsave(f$),p 2048 to p (2048+80*25),b 0
3740 dma 0,2000,2048*6,bk,2048,0: rem restore page 1 from
temp (bank bk)
3790 goto 90
3800 rem insert
3810 sk=0
3820 dma 0,2000,2048,0,2048*6,bk: rem store page 1 at temp
(bank bk)
3830 if cx<79 then dma 0,80-cx-
1,2048*6+80*cy+cx,bk,2048+80*cy+cx+1,0
3840 poke 2048+80*cy+cx,32
3890 return
3900 rem export text as petscii
3910 sk=0
3915 fs=dec("f800")-2048*6
3920 dma 0,2000,2048,0,2048*6,bk: rem store page pg at
temp (bank bk)
3930 cursor 18,0:print " export PETSCII ";
3935 dma 3,15,16+1,0,dec("f800")+18,1 : rem blink
3936 f$="btext"+right$(str$(pg),1)+"petscii"
3938 scratch (f$)
3940 dopen#1,(f$),w
```

```
3950 bank bk
3960 rem     for l=2048*6+80*1 to 2048*6+80*25-1 step 80
3962 for l=2048*6+80*1 to 2048*6+80*25-1 step 80
3970 e$=""
3980 for p=1 to (l+79)
3990 t=peek(p)
3995 bank 1:poke fs+p,7+32:bank(bk)
4000 if (t>-1) and (t<32) then c=t+64:goto 4070
4010 if (t>31)and(t<64) then c=t:goto 4070
4020 if (t>63) and (t<96) then c=t+128:goto 4070
4030 if (t>95) and (t<128) then c=t+64:goto 4070
4040 if (t>127) and (t<160) then c=t-128:goto 4070
4050 if (t>159) and (t<224) then c=t-64:goto 4070
4060 if (t>223) then c=t
4070 e$=e$+chr$(c)
4080 next p
4090 print#1,e$
4100 next l
4110 dclose#1
4122 cursor 0,0:print t$;:poke 2127,160:nt=0
4125 dma 3,2000,1,1,dec("f800"),1:rem set all color cells
to white (1)
4130 bank 0
4190 goto 90
4200 rem help
4202 dma 0,2000,2048,0,2048*pg,bk
4205 sk=0:wx=25
4206 bw$=chr$(144)+"r '"+chr$(5)
4210 cursor wx, 2:print "r                              '";
4220 cursor wx, 3:print "r     NOTEPAD HELP - KEYS
'";bw$;
4237 cursor wx, 4:print "r
'";bw$;
4240 cursor wx, 5:print "r  [INST] insert one char
'";bw$;
4250 cursor wx, 6:print "r  [DEL]  delete one char
'";bw$;
4260 cursor wx, 7:print "r  [HOME] set cursor home
'";bw$;
4265 cursor wx, 8:print "r  [TAB]  cursor to next tab
'";bw$;
4267 cursor wx, 9:print "r
'";bw$;
```

```
4268 cursor wx,10:print "r        GERMAN SPECIAL KEYS
   ´";bw$;
4269 cursor wx,11:print "r
   ´";bw$;
4270 cursor wx,12:print "r   [C= + Z] Ae   [C= + A] ae
   ´";bw$;
4271 cursor wx,13:print "r   [C= + L] Oe   [C= + O] oe
   ´";bw$;
4272 cursor wx,14:print "r   [C= + J] Ue   [C= + U] ue
   ´";bw$;
4273 cursor wx,15:print "r   [C= + S] ss   [C= + E] EUR
   ´";bw$;
4277 cursor wx,16:print "r
   ´";bw$;
4280 cursor wx,17:print "r
   ´";bw$;
4300 cursor wx,18:print "r   C65 NOTEPAD - Version 1.0
   ´";bw$;
4305 cursor wx,19:print "r        programmed 2020/07
   ´";bw$;
4310 cursor wx,20:print "r        by Guenther Reiter
   ´";bw$;
4315 cursor wx,21:print "r
   ´";bw$;
4320 cursor wx,22:print "r           used bank:";right$(str$
   (bk),2);"         ´";bw$;
4325 cursor wx,23:print "r
   ´";bw$;
4350 cursor wx+1,24:print chr$(144);"r
   ´";chr$(5);
4360 getkey k$
4370 dma 0,2000,2048*pg,bk,2048,0
4375 dma 3,2000,1,1,dec("f800"),1:rem set all color cells
   to white (1)
4380 rem
4499 return
4500 rem start marker block
4510 mx=cx  :my=cy
5000 rem
5050 l=(80*cy+cx)-(80*my+mx):if l<1 then l=1:cx=mx+1:cy=my
5053 dma 3,2000,1,1,dec("f800"),1:rem set all color cells
   to white (1)
```

```
5055 dma 3,1, 7+32 ,1,dec("f800")+80*my+mx,1:rem set
marker block color
5060 cursor 16,0:print "[M] mark/[D] del";:nt=1
5070 dma 3,16,16+1,0,dec("f800")+16,1 : rem blink
5100 getkey k$
5110 k=asc(k$)
5131 if k=29   then gosub 5200 : rem cursor right
5132 if k=157 then gosub 5300 : rem cursor left
5133 if k=17   then gosub 5400 : rem cursor down
5134 if k=145 then gosub 5500 : rem cursor up
5140 if k=27   then gosub 5600 : rem escape
5150 if k=77 or k=205 then goto 5700 : rem "m" mark end
5160 if k=68 or k=196 then goto 7200 : rem "d" delete
block
5190 goto 5050
5200 rem marker - cursor right
5210 cx=cx+1
5220 if cx>79 then cx=0:cy=cy+1
5230 if cy>24 then cy=24
5290 return
5300 rem marker - cursor left
5310 cx=cx-1
5320 if cx<0   then cx=79:cy=cy-1
5330 if cy<1   then cy=1
5390 return
5400 rem marker - cursor down
5410 cy=cy+1
5430 if cy>24 then cy=24
5490 return
5500 rem marker - cursor up
5510 cy=cy-1
5530 if cy<1   then cy=1
5590 return
5600 rem marker - escape
5610 dma 3,2000,1,1,dec("f800"),1:rem set all color cells
to white (1)
5620 if nt>0 then cursor 18,0:print "r
`";:nt=0
5690 goto 90
5700 rem marker - copy
5710 ca=2048+80*my+mx:rem start address of block
5720 cb=2048+80*cy+cx:rem   end address of block
5730 cl=cb-ca : rem length of block in clipboard
```

```
5740 dma 0,cl  ,ca  ,0,2048*5,bk: rem store block in bank
bk
5760 dma 3,2000,1,1,dec("f800"),1:rem set all color cells
to white (1)
5770 if nt>0 then cursor 16,0:print "r
'";:nt=0
5790 goto 90
5800 rem insert clipboard
5805 if cl=0 then goto 5890
5810 ca=2048+80*cy+cx : rem start address
5820 cb=ca+cl : rem end address
5830 ce=2048+80*25
5840 if cb>ce then cl=ce-ca
5850 dma 0,cl,2048*5,bk,ca  ,0 : rem get stored block from
bank bk
5890 goto 90
5900 rem export text as utf-8
5910 sk=0
5915 fs=dec("f800")-2048*6
5920 dma 0,2000,2048,0,2048*6,bk: rem store page pg at
temp (bank bk)
5930 cursor 18,0:print " export UTF-8 ";
5935 dma 3,13,16+1,0,dec("f800")+18,1 : rem blink
5936 f$="btext"+right$(str$(pg),1)+"utf8"
5938 scratch (f$)
5940 dopen#1,(f$),w
5950 bank bk
5955 cursor 0,5
5960 for l=2048*6+80*1 to 2048*6+80*25-1 step 80
5962 rem for l=2048*6+80*1 to 2048*6+80*5 -1 step 80
5970 e$=""
5980 for p=l to (l+79)
5990 t=peek(p)
5995 bank 1:poke fs+p,7+32:bank(bk)
6070 e$=e$+u$(t)
6080 next p
6090 print#1,e$
6100 next l
6110 dclose#1
6120 rem  cursor 18,0:print "  finished  ";:nt=1
6122 cursor 0,0:print t$;:poke 2127,160:nt=0
6125 dma 3,2000,1,1,dec("f800"),1:rem set all color cells
to white (1)
```

```
6130 bank 0
6190 goto 90
7000 rem datas for utf-8 export
7010 for i=0 to 255:u$(i)=chr$(32):next i: rem set all
signs to "space" default
7011 u$(109)=chr$(195)+chr$(132): rem uppercase ae
7012 u$(118)=chr$(195)+chr$(150): rem uppercase oe
7013 u$(117)=chr$(195)+chr$(156): rem uppercase ue
7015 for i=65 to 90:u$(i)=chr$(i):next i:rem set uppercase
letters a-z
7020 for i=1 to 26:u$(i)=chr$(i+96):next i:rem set
lowercase letters a-z
7021 u$(112)=chr$(195)+chr$(164): rem lowercase ae
7022 u$(121)=chr$(195)+chr$(182): rem lowercase oe
7023 u$(120)=chr$(195)+chr$(188): rem lowercase ue
7024 u$(110)=chr$(195)+chr$(159): rem sz
7030 for i=48 to 57:u$(i)=chr$(i):next i:rem set 0-9
7035 for i=33 to 41:u$(i)=chr$(i):next i:rem set shift 1-9
7040 u$(45)=chr$(45):rem -
7042 u$(93)=chr$(124):rem vertical line
7044 u$(61)=chr$(61):rem =
7046 u$(42)=chr$(42):rem *
7048 u$(64)=chr$(45):rem hor line
7050 u$(30)=chr$(94):rem ^
7052 u$(94)=chr$(35):rem checked block
7054 u$(58)=chr$(58):rem :
7056 u$(27)=chr$(91):rem [
7058 u$(29)=chr$(93):rem ]
7060 u$(59)=chr$(59):rem ;
7062 u$(44)=chr$(44):rem ,
7064 u$(46)=chr$(46):rem .
7066 u$(60)=chr$(60):rem <
7068 u$(62)=chr$(62):rem >
7070 u$(47)=chr$(47):rem /
7072 u$(63)=chr$(63):rem ?
7090 return
7200 rem marker - delete
7210 ca=2048+80*my+mx:rem start address of block
7220 cb=2048+80*cy+cx:rem   end address of block
7230 cl=cb-ca : rem length of block in clipboard
7240 dma 3,cl,32,0,ca,0 : rem clear marked block
7260 dma 3,2000,1,1,dec("f800"),1:rem set all color cells
to white (1)
```

```
7270 if nt>0 then cursor 16,0:print "r
'";:nt=0
7290 goto 90
```

ready.