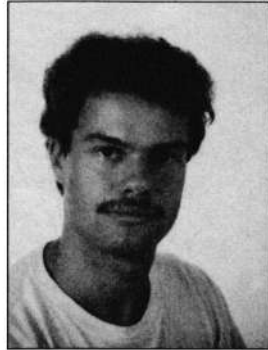


**Tip des Monats
von
Oliver Räther**



Schreibschrift

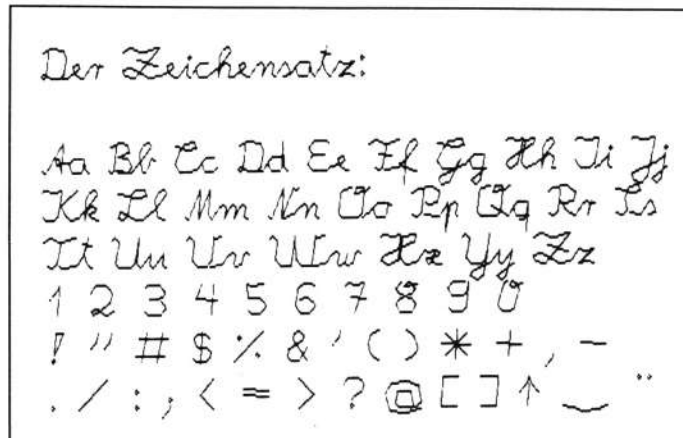
Die Schreibschrift kann nach der Initialisierung einfach durch den PRINT-Befehl genutzt werden. Durch das Steuerzeichen CHR\$(27)=CONTROL+[aktiviert man sie, so daß nun sämtliche Textausgaben in Schreibschrift ausgeführt werden, bis man sie durch CHR\$(29)=CONTROL+] wieder abschaltet. Ihre Ausgabe ist somit auch im Direktmodus außerhalb eines Programms nutzbar.

Die Schreibgeschwindigkeit ist variabel; sie läßt sich mit dem POKE-Befehl zur Adresse &A018 einstellen. Der Bildschirm scrollt automatisch. Es kann jedoch passieren, daß der Text über den rechten Bildschirmrand hinausgeht. Folglich ist er gegebenenfalls auf mehrere PRINT-Anweisungen zu verteilen. Die Bedeutung der Steuerzeichen ist der Schreibschrift angepaßt. Dies ermöglicht eine einfache Textpositionierung. Sie kann jedoch zusätzlich mit Hilfe des MOVE-Befehls vorgenommen werden, da die Ausgabe an der Grafik-Cursor-Position stattfindet.

Die Schreibschrift funktioniert unabhängig vom gewählten Bildschirmmodus, ist jedoch in Mode 2 am deutlichsten. Das Demonstrationsprogramm DEMO.BAS zeigt ihre Funktionsweise anschaulich.

Programmeingabe

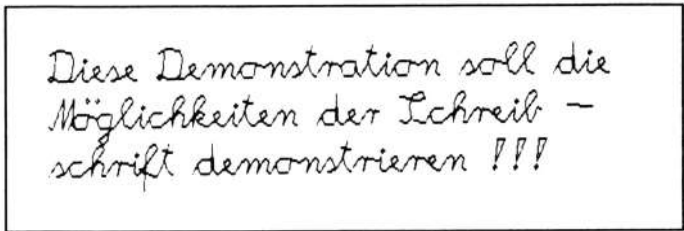
Zuerst muß man das zum jeweiligen Computertyp passende Steuerprogramm abtippen und mit RUN starten. Ist es fehlerfrei, wird automatisch der Maschinencode auf Diskette oder Cassette gespeichert. An-



schließend ist der Schreibschrift-Zeichensatz abzutippen und zu starten. Wiederum wird der Maschinencode abgespeichert.

Speicherbelegung

- &9000 - &9FFF : Zeichensatz
- &A000 - &A145 : Steuerprogramm
- &A071 : Initialisierungsadresse
- &A018 : Schreibgeschwindigkeit

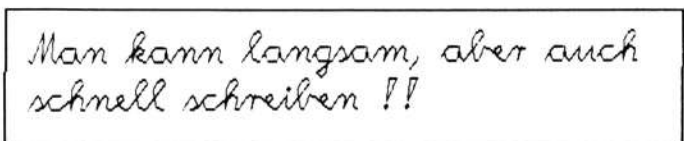


Beispiel für ein Ladeprogramm

```
10 MODE 2
20 MEMORY &8FFF
30 LOAD "SCHRSTEU.BIN"
40 CALL &A071
50 LOAD "SCHRZEI.BIN"
```

Schreibschrift-Zeichensatz

Zeichennummer	Wirkung
0-7	unverändert
8-11	Grafik-Cursor-Bewegungen
12	CLS und Grafik-Cursor-Positionierung



13-26, 28	unverändert
27	Schreibschrift einschalten
29	Schreibschrift ausschalten
30, 31	unverändert
32-128	Buchstaben, Textzeichen und Zahlen

Oliver Räther

Programm: Schreibschrift

Computer: CPC 464/664/6128

Funktion: Vektorzeichensatz

Listings: 4

Demo

```

<083D> 10 'Schreibschrift Demo
<091B> 20 '(c) 1988 by Oliver Raether
<00E6> 30 '
<02E2> 100 MEMORY &8FFF
<0153> 110 MODE 2
<0DB1> 120 IF PEEK(&BB01) = &E0 THEN LOAD "schrzei
4.bin" '464
<0E40> 130 IF PEEK(&BB01) = &5C THEN LOAD "schrzei
6.bin" '664/6128
<0EA5> 140 IF PEEK(&BB4F) = &70 THEN POKE &A07E, &
FA: POKE &A143, &FA '664
<0270> 150 CALL &A071
<05FE> 160 LOAD "schrzei.bin"
<02B7> 170 POKE &A018, &5
<2740> 180 PRINT CHR$(27)CHR$(12) " Diese Demons
tration soll die": PRINT " M"CHR$(8) "ogli
chkeiten der Schreib -": PRINT " schrift d
emonstrieren !!!"
<18DE> 190 POKE &A018, &20: PRINT "": PRINT "Man kan
n langsam, aber auch": POKE &A018, &0: PRIN
T "schnell schreiben !!!"
<25DF> 200 "POKE &A018, 0: LOCATE 1, 23: PRINT CHR$(
29) "
" : PRINT CHR$(27)CHR$(10) "Der Zeiche
nsatz:"
<0ECD> 210 PRINT CHR$(10) " _____": PRINT CHR$(1
1) "Der Zeichensatz:"
<09D2> 220 PRINT "Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj"
<0AA4> 230 PRINT "Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt"
<0871> 240 PRINT "Tt Uu Vv Ww Xx Yy Zz"
<0545> 250 PRINT "1 2 3 4 5 6 7 8 9 0"
<065B> 260 PRINT "! "CHR$(34) " # $ % & ' ( ) * +
, _
"
<0ABB> 270 PRINT ". / : ; < = > ? @ [ ] ^ ` {
| } "CHR$(29)

```

MC-Generator 464

```

<09A1> 1 : 'MC-Generator: SCHRZEI4.ldr
<004B> 2 :
<08DC> 3 : 'erzeugt : SCHRZEI4.bin
<004D> 4 :
<0C28> 5 : 'Copyright : 1988, Oliver Raether
<004F> 6 :
<0F94> 100 DATA 00,00,11,00,90,29,29,29,29,29,1
9,3A,2E,B3,4F,3A,2A,B3,91,4E,81,F5,&065D
<0FF8> 101 DATA 01,10,00,0B,78,FE,00,20,FA,F1,1
6,00,CB,B7,CB,7F,28,04,16,FF,CB,F7,&0982
<1026> 102 DATA 5F,23,7E,FE,00,C8,01,56,A0,C5,0
1,F9,BB,C5,CB,77,28,05,C1,01,C3,BB,&0AAB
<1031> 103 DATA C5,23,22,00,A0,26,00,CB,B7,CB,7
F,28,04,26,FF,CB,F7,6F,EB,C9,2A,00,&09FC
<0FBA> 104 DATA A0,7E,18,B9,0E,14,11,00,00,21,0
0,00,19,D5,C5,CD,02,A0,C1,D1,0D,C8,&07CC
<0FAE> 105 DATA 13,18,F0,21,86,A0,22,15,B3,C9,2
1,5A,BB,36,CF,21,00,94,22,5B,BB,C3,&0900
<101D> 106 DATA A0,A0,21,5A,BB,36,C3,21,92,A0,2
2,5B,BB,C9,F5,C5,D5,E5,FE,20,38,0B,&0B98
<1065> 107 DATA 26,00,6F,CD,02,A0,E1,D1,C1,F1,C
9,FE,1D,CA,78,A0,FE,09,C2,BB,A0,2A,&0C7C
<1004> 108 DATA 2C,B3,11,14,00,19,22,2C,B3,18,E
5,FE,08,C2,CC,A0,2A,C3,11,EC,FF,&0954
<0FD1> 109 DATA 19,22,2C,B3,18,D4,FE,0B,C2,E0,A
0,2A,2A,B3,11,18,00,19,22,2A,B3,22,&07BB
<101E> 110 DATA 2E,B3,18,C0,FE,0A,C2,13,A1,2A,2
A,B3,7D,FE,18,30,1A,06,FF,3A,39,B3,&0946
<1099> 111 DATA CD,4D,BC,06,FF,3A,39,B3,CD,4D,B
C,06,FF,3A,39,B3,CD,4D,BC,18,99,11,&0A9A
<0FF0> 112 DATA E8,FF,19,22,2A,B3,22,2E,B3,18,8
D,FE,0C,C2,2D,A1,21,00,00,22,28,B3,&085F
<0FDF> 113 DATA 22,2C,B3,21,B8,00,22,2A,B3,22,2
E,B3,C3,3E,A1,FE,0D,C2,3E,A1,21,00,&084B
<0CC1> 114 DATA 00,22,28,B3,22,2C,B3,C3,3E,A1,E
1,D1,C1,F1,CF,00,94,&0867
<0203> 115 DATA EOF
<007B> 116 :
<0303> 117 MEMORY &9FFF
<079A> 118 z=100:o=1:a=&A000
<0502> 119 PRINT "Zeile:"z;
<026C> 120 READ b$
<0752> 121 IF b$ = "EOF" GOTO 133
<070A> 122 IF MID$(b$,1,1) = "&" GOTO 128

```

```

<0682> 123 b=VAL("&" + b$)
<0549> 124 POKE a,b:PRINT".";
<074B> 125 s=s+ PEEK(a)
<04BF> 126 a=a+1
<0200> 127 GOTO 120
<0558> 128 cs=VAL(b$)
<0B9C> 129 IF s=cs THEN v=6 ELSE v=174
<054E> 130 PRINT CHR$(1)CHR$(v)
<07A9> 131 s=0:z=z+o
<01E3> 132 GOTO 119
<0254> 133 PRINT b$
<07FA> 134 SAVE "SCHRZEI4.bin",b,&A000,&145
<0125> 135 END

```

MC-Generator 664/6128

```

<0943> 1 : 'MC-Generator: SCHRZEI6.LDR
<004B> 2 :
<087E> 3 : 'erzeugt : SCHRZEI6.BIN
<004D> 4 :
<0C28> 5 : 'Copyright : 1988, Oliver Raether
<004F> 6 :
<0F84> 100 DATA 00,00,11,00,90,29,29,29,29,29,1
9,3A,99,B6,4F,3A,95,B6,91,4E,81,F5,&0739
<0FF8> 101 DATA 01,10,00,0B,78,FE,00,20,FA,F1,1
6,00,CB,B7,CB,7F,28,04,16,FF,CB,F7,&0982
<1026> 102 DATA 5F,23,7E,FE,00,C8,01,56,A0,C5,0
1,F9,BB,C5,CB,77,28,05,C1,01,C3,BB,&0AAB
<1031> 103 DATA C5,23,22,00,A0,26,00,CB,B7,CB,7
F,28,04,26,FF,CB,F7,6F,EB,C9,2A,00,&09FC
<0FBA> 104 DATA A0,7E,18,B9,0E,14,11,00,00,21,0
0,00,19,D5,C5,CD,02,A0,C1,D1,0D,C8,&07CC
<1007> 105 DATA 13,18,F0,21,86,A0,22,B5,B7,C9,2
1,5A,BB,36,CF,21,FE,93,22,5B,BB,C3,&0AA1
<101D> 106 DATA A0,A0,21,5A,BB,36,C3,21,92,A0,2
2,5B,BB,C9,F5,C5,D5,E5,FE,20,38,0B,&0B98
<1065> 107 DATA 26,00,6F,CD,02,A0,E1,D1,C1,F1,C
9,FE,1D,CA,78,A0,FE,09,C2,BB,A0,2A,&0C7C
<101B> 108 DATA 97,B6,11,14,00,19,22,97,B6,18,E
5,FE,08,C2,CC,A0,2A,97,B6,11,EC,FF,&0A9E
<0FAE> 109 DATA 19,22,97,B6,18,D4,FE,0B,C2,E0,A
0,2A,95,B6,11,18,00,19,22,95,B6,22,&0905
<102D> 110 DATA 99,B6,18,C0,FE,0A,C2,13,A1,2A,9
5,B6,7D,FE,18,30,1A,06,FF,3A,A4,B6,&0A90
<10A5> 111 DATA CD,4D,BC,06,FF,3A,A4,B6,CD,4D,B
C,06,FF,3A,A4,B6,CD,4D,BC,18,99,11,&0B76
<0FF1> 112 DATA E8,FF,19,22,95,B6,22,99,B6,18,8
D,FE,0C,C2,2D,A1,21,00,00,22,93,B6,&09A9
<0FD2> 113 DATA 22,97,B6,21,B8,00,22,95,B6,22,9
9,B6,C3,3E,A1,FE,0D,C2,3E,A1,21,00,&0995
<0CEE> 114 DATA 00,22,93,B6,22,97,B6,C3,3E,A1,E
1,D1,C1,F1,CF,FE,93,&0A40
<0203> 115 DATA EOF
<007B> 116 :
<0303> 117 MEMORY &9FFF
<079A> 118 z=100:o=1:a=&A000
<0502> 119 PRINT "Zeile:"z;
<026C> 120 READ b$
<0752> 121 IF b$ = "EOF" GOTO 133
<070A> 122 IF MID$(b$,1,1) = "&" GOTO 128
<0682> 123 b=VAL("&" + b$)
<0549> 124 POKE a,b:PRINT".";
<074B> 125 s=s+ PEEK(a)
<04BF> 126 a=a+1
<0200> 127 GOTO 120
<0558> 128 cs=VAL(b$)
<0B9C> 129 IF s=cs THEN v=6 ELSE v=174
<054E> 130 PRINT CHR$(1)CHR$(v)
<07A9> 131 s=0:z=z+o
<01E3> 132 GOTO 119
<0254> 133 PRINT b$
<06EC> 134 IF PEEK(&BB4F) = &74 GOTO 136
<071A> 135 POKE &A07E, &FA: POKE &A143, &FA
<079E> 136 SAVE "SCHRZEI6.BIN",b,&A000,&145
<0127> 137 END

```

Zeichensatz

```

<096C> 1 : 'MC-Generator: SCHRZEI.ldr
<004B> 2 :

```

```

<08A7> 3      : 'erzeugt      : SCHRZEI.bin
<004D> 4      :
<0C28> 5      : 'Copyright   : 1988, Oliver Raether
<004F> 6      :
<0FD2> 100 DATA C8,2D,0D,00,00,70,F7,28,0F,29,E
F,1C,ED,00,01,0D,00,00,6C,F0,EF,10,&072A
<0F67> 101 DATA 00,28,00,D2,2D,A1,20,03,00,00,6
2,65,E6,EF,22,41,44,43,20,22,20,EB,FB,&06BE
<0FAA> 102 DATA 20,0D,00,00,63,6F,64,E5,EF,1B,4
A,00,01,A0,20,1E,E6,2D,00,2B,00,DC,&0695
<0F3A> 103 DATA 2D,A1,20,03,00,00,62,65,E6,EF,2
2,53,42,43,20,22,20,EB,20,0D,00,00,&0601
<0F89> 104 DATA 63,6F,64,E5,EF,1B,42,00,20,01,9
7,20,A0,20,1E,C2,33,00,2C,00,E6,2D,&0751
<0FA2> 105 DATA 0D,00,00,70,F7,28,0D,00,00,6C,F
0,29,EF,0D,00,00,63,6F,64,E5,20,FC,&0761
<0F4B> 106 DATA 20,28,0D,00,00,64,E4,F6,19,10,2
9,01,A0,20,1E,2C,33,00,23,00,F0,2D,&0563
<0FDC> 107 DATA C5,20,72,6F,74,73,63,68,69,65,2
0,2D,2D,2D,2D,2D,2D,2D,2D,2D,2D,&0655
<0FEA> 108 DATA 2D,2D,2D,2D,2D,2D,2D,00,19,0
0,FA,2D,0D,00,00,6C,F0,EF,10,01,0D,&051E
<0F85> 109 DATA 00,00,70,F7,28,0F,29,EF,1C,CB,0
0,00,16,00,04,2E,A1,20,0D,00,00,6B,&051E
<0FC4> 110 DATA 6F,66,6C,61,E7,20,EB,20,1E,CC,3
3,00,15,00,0E,2E,03,00,00,E1,EF,03,&06F8
<0F66> 111 DATA 00,00,6F,F0,01,9F,20,1E,70,35,0
0,17,00,18,2E,A1,20,FE,20,0D,00,00,&052B
<0F9C> 112 DATA 72,66,6C,61,E7,20,EB,20,1E,CC,3
3,00,26,00,22,2E,0D,00,00,70,F7,28,&06E6
<0FC0> 113 DATA 10,29,EF,28,16,F6,28,0D,00,00,7
A,77,E9,F5,19,18,29,29,20,FC,20,0D,&072C
<0F60> 114 DATA 00,00,72,72,F2,00,0A,00,2C,2E,A
0,20,1E,2C,33,00,23,00,36,2E,C5,20,&04E3
<1011> 115 DATA 62,69,74,74,69,20,2D,2D,2D,2D,2
D,2D,2D,2D,2D,2D,2D,2D,2D,2D,&050C
<0F9F> 116 DATA 2D,2D,2D,2D,2D,2D,00,19,00,40,2
E,0D,00,00,6C,F0,EF,10,01,0D,00,00,&040B
<0F8F> 117 DATA 70,F7,28,0F,29,EF,1C,CB,00,00,1
5,00,4A,2E,03,00,00,E1,EF,03,00,00,&0600
<0F6E> 118 DATA 6F,B2,01,9F,20,1E,70,35,00,17,0
0,54,2E,A1,20,FE,20,0D,00,00,72,66,&0601
<0FE1> 119 DATA 6C,61,E7,20,EB,20,1E,CC,33,00,1
8,00,5E,2E,0D,00,00,62,62,E2,EF,FF,&0841
<0F7A> 120 DATA 01,28,03,00,00,6F,B1,29,F5,19,3
0,00,35,00,68,2E,A1,20,28,0E,EE,0D,&0570
<0F67> 121 DATA 00,00,62,62,E2,29,20,FC,20,28,1
5,F1,0D,00,00,62,62,E2,29,20,FC,20,&0751
<0FB7> 122 DATA 28,FF,0E,28,03,00,00,6F,B1,29,F
2,0F,29,20,EB,20,1E,CC,33,20,00,38,&0673
<0F7B> 123 DATA 00,72,2E,0D,00,00,70,F7,28,10,2
9,EF,28,19,40,F6,28,0D,00,00,7A,77,&0601
<0FD3> 124 DATA E9,F5,19,1F,29,29,FC,28,0D,00,0
0,62,62,E2,F6,16,29,FC,20,0D,00,00,&079D
<0F96> 125 DATA 72,72,F2,01,20,A0,20,1E,2C,33,0
0,23,00,7C,2E,C5,20,72,65,6C,61,74,&06FE
<0FC7> 126 DATA 69,76,65,20,53,70,72,75,65,6E,6
7,65,20,2D,2D,2D,2D,2D,2D,2D,2D,&0662
<0FAD> 127 DATA 2D,0D,0A,00,86,2E,0D,00,00,6C,F
0,EF,0F,01,0D,00,00,70,F7,28,0F,29,&0547
<0F8A> 128 DATA EF,1C,10,00,01,03,00,00,E1,EF,0
3,00,00,6F,F0,01,A0,20,1E,D6,2E,00,&0634
<0FB5> 129 DATA 0C,00,90,2E,0D,00,00,6C,F0,EF,0
F,00,30,00,9A,2E,A1,20,FE,20,0D,00,&0615
<0FB5> 130 DATA 00,6B,6F,66,6C,61,E7,20,EB,20,0
D,00,00,63,63,E3,EF,1B,03,00,01,03,&06E6
<0F9D> 131 DATA 00,00,E1,EF,03,00,00,6F,F0,01,A
0,20,1E,CC,2E,00,15,00,A4,2E,03,00,&05F5
<0FAE> 132 DATA 00,E1,EF,03,00,00,6F,B1,01,9F,2
0,1E,C0,35,00,26,00,AE,2E,A1,20,28,&06B1
<0FCD> 133 DATA FE,20,0D,00,00,63,66,6C,61,E7,2
9,20,FC,20,28,0D,00,00,63,63,E3,EE,&07D9
<0FA6> 134 DATA 11,29,20,EB,20,1E,CC,33,00,16,0
0,B8,2E,0D,00,00,63,63,E3,EF,0D,00,&0630
<0F89> 135 DATA 00,63,63,E3,20,FC,20,12,00,0F,0
0,C2,2E,03,00,00,E1,EF,03,00,00,6F,&063B
<0FBB> 136 DATA B2,00,16,00,CC,2E,0D,00,00,70,F
7,28,0F,29,EF,0D,00,00,63,63,E3,F6,&0731
<0F8F> 137 DATA 16,00,58,00,D6,2E,A1,20,FF,75,2
8,03,00,00,E1,2C,0F,29,F2,22,24,22,&0671
<0FC3> 138 DATA 20,EB,20,9F,20,1E,24,36,01,0D,0
0,00,6C,F0,EF,0D,00,00,6C,F0,F5,10,&0729
<0FA0> 139 DATA 01,A1,20,0D,00,00,E9,EE,0D,00,0
0,6C,74,F0,20,EB,20,0D,00,00,77,65,&0697
<0FF6> 140 DATA 72,F4,EF,0D,00,00,6D,70,E3,01,A
0,20,1E,EA,2E,01,20,01,97,20,1E,EA,&07FA
<0FED> 141 DATA 2E,00,2B,00,E0,2E,0D,00,00,77,6
5,72,F4,EF,0D,00,00,6D,70,E3,F4,FF,&0865
<0FE1> 142 DATA 1D,28,FF,79,28,03,00,00,E1,2C,F
F,0E,28,03,00,00,E1,29,F5,0F,29,29,&068D
<0FC5> 143 DATA 00,30,00,EA,2E,0D,00,00,6C,F0,E
F,0D,00,00,6C,F0,F4,0F,01,0D,00,00,&061A
<0FE1> 144 DATA 61,64,F2,EF,0D,00,00,6D,70,E3,0
1,0D,00,00,7A,69,65,EC,EF,0D,00,00,&07B1
<0FBF> 145 DATA 77,65,72,F4,00,0A,00,F4,2E,9F,2
0,1E,14,37,00,19,00,FE,2E,0D,00,00,&05E8
<0F53> 146 DATA 70,F7,28,10,29,EF,0D,00,00,6F,E
6,01,00,54,00,00,00,00,00,00,00,00,&046E
<0E7B> 147 DATA 00,00,00,00,00,00,00,00,00,00,0
0,00,00,00,00,00,00,00,00,00,00,&0000
<1031> 148 DATA 1E,4C,AA,BE,16,0A,00,B8,A6,FE,B
E,BD,BE,02,02,02,BE,4A,00,00,00,00,&0795
<0FDB> 149 DATA 00,00,00,00,00,00,00,00,00,00,0
0,00,00,00,00,00,00,00,00,00,00,&0001
<0EE5> 150 DATA B2,4A,00,00,00,00,00,00,00,00,0
0,00,00,00,00,00,00,00,00,00,00,&0168
<0FD5> 151 DATA A2,BA,00,50,00,40,1E,06,BA,E8,0
0,1E,AE,DE,00,1E,BA,44,00,00,00,00,&0678
<0F90> 152 DATA 00,00,00,00,00,00,00,00,00,18,56,0
4,BC,00,B8,BC,BC,BA,01,BC,04,00,08,&04E1
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2,A2,00,60,00,00,00,00,00,00,00,&0222
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