

PRINT-OUT VAN BBM-15.exe

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C:\PROGRA~3\PB35\PB.EXE
File Edit Search Run Compile Options Debug
G:\PB35\BBM15.BAS
10 REM***Copyright 1998-2010, Fractal Consultancy,*****
20 REM ***Datum: 29 december 1997 - 31 december 2009***
30 SCREEN 12: color 1,15
35 print
40 print "FRACTAL-GENERATOR (3D Mandelbrot set) based on different Layers."
45 print "Program BBM15.exe d.d. 31 december 2009."
50 print "Copyright 1998-2010, Fractal Consultancy, Jules Ruis; All rights r
60 print "Wagenaarlaan 2, 5691 GP Son, The Netherlands; e-mail: Info@fractal
70 print
72 print "For 'standard' click on 'Enter'."
74 print
80 WINDOW (-320,-240)-(319,239): AC=0: BC=0 : UF=1 : T=0 : GK=0
90 input "Power P of function X^P; standard P=?):";P
100 if P=0 then P=7
110 input "With different colors? (y/n; standard=y): ";OMG$
120 if OMG$="" then OMG$="y"
130 input "Size of the image (100-320; standard=200): ";N1
140 if N1=0 then N1=200
145 input "Starting point z-position (-1 until +1; standard=-1): ";C
150 if C=0 then C=-1
151 if P=2 then C=-0.45
152 Zstart=C
155 input "With automatical change of z-position? (y/n; standard=y): "Zpos$
160 if Zpos$="" then Zpos$="y"
162 if Zpos$="y" then goto 165 else goto 170
165 input "Size of z-steps; (0.01 until 0.1; standard=.05): ";delta
166 if delta=0 then delta=0.05
170 Input "Other centre-point than x,y=0,0? (y/n; standard=n): ";CH$
180 if CH$="" then CH$="n"
190 if CH$="y" then goto 200 else goto 250
200 input "Position x-centre? (.35 until -1.5; standard=-1.4): ";AC
210 if AC=0 then AC=-1.40
220 input "Position y-centre? (-.75 until .75; standard=0): ";BC
230 input "Zoom UF (10 - .01; standard=.1): ";UF
240 if UF=0 then UF=.1
250 if T=0 then cls:
253 print "P=";P
255 print "z=";C
260 if P=2 and CH$="y"then AC=-.65: BC=0:
270 DELH=1.6*UF: DELU=1.2*UF
280 N2=INT(N1*DELU/DELH)
290 FOR I=-N1 TO N1 : A=I*DELH/N1+AC
300 FOR J=-N2 TO N2 : B=J*DELU/N2+BC
|00001:001| = INS TAB INDNT UNDNNT |Size: 3299|
Watch
F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Run F10-Menu NUM
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300 FOR J=-N2 TO N2 : B=J*DELTA/N2+BC
310 X=A: Y=B: W=C: K=0:
320 DO:
340 R=SQR(X^2+Y^2+W^2)
345 theta=atn(W/(SQR(X^2+Y^2)))
350 if X>0 then fi=atn(Y/X): goto 370
355 if X=0 then fi=atn(Y/(.1E-40)): goto 370
360 if X<0 then fi=atn(Y/X)+3.141592653589793
370
380 X=(R^P)*cos(P*fi)*cos(P*theta)+A
390 Y=(R^P)*sin(P*fi)*cos(P*theta)+B
395 W=(R^P)*sin(P*theta)+C
410 K=K+1
420 LOOP UNTIL R>3 OR K=44
430 if OMG$="y" then goto 460 else goto 440
440 if K<44 then L=0 ELSE L=1
450 goto 660
460 if K<44 then G=15-K MOD 15 else L=1
470 G=15-K MOD 15
480 if G=1 then L=1
490 if G=2 then L=9
500 if G=3 then L=11
510 if G=4 then L=3
520 if G=5 then L=2
530 if G=6 then L=10
540 if G=7 then L=7
550 if G=8 then L=14
560 if G=9 then L=5
570 if G=10 then L=13
580 if G=11 then L=6
590 if G=12 then L=12
600 if G=13 then L=4
610 if G=14 then L=15
620 if G=15 then L=8
630 if K>15 then goto 660 else L=0
660 PSET (I,J),L
680 IF INKEY$("<>") THEN goto 740
690 NEXT J
700 NEXT I
705 if Zpos$="y" then goto 710 else goto 740
710 if C=-Zstart or C>Zstart then goto 740
720 C=C+delta: I=I+1
730 goto 255
|00043:001| ---INS---TAB---INDNT---UNDNT---|Size: 3299|
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F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Run F10-Menu NUM
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730 goto 255
740 input "stop/new <s/n>";A$
750 if A$="n" then goto 80
760 if A$="s" then goto 770
770 print "Click on 'enter'"
780 end

|00085:001| — — INS — TAB — INDNT — UNDNT — |Size: 3299|
Watch

F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Run F10-Menu NUM
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