

Mandelbulb 3D Tutorial

Master Training v2.3

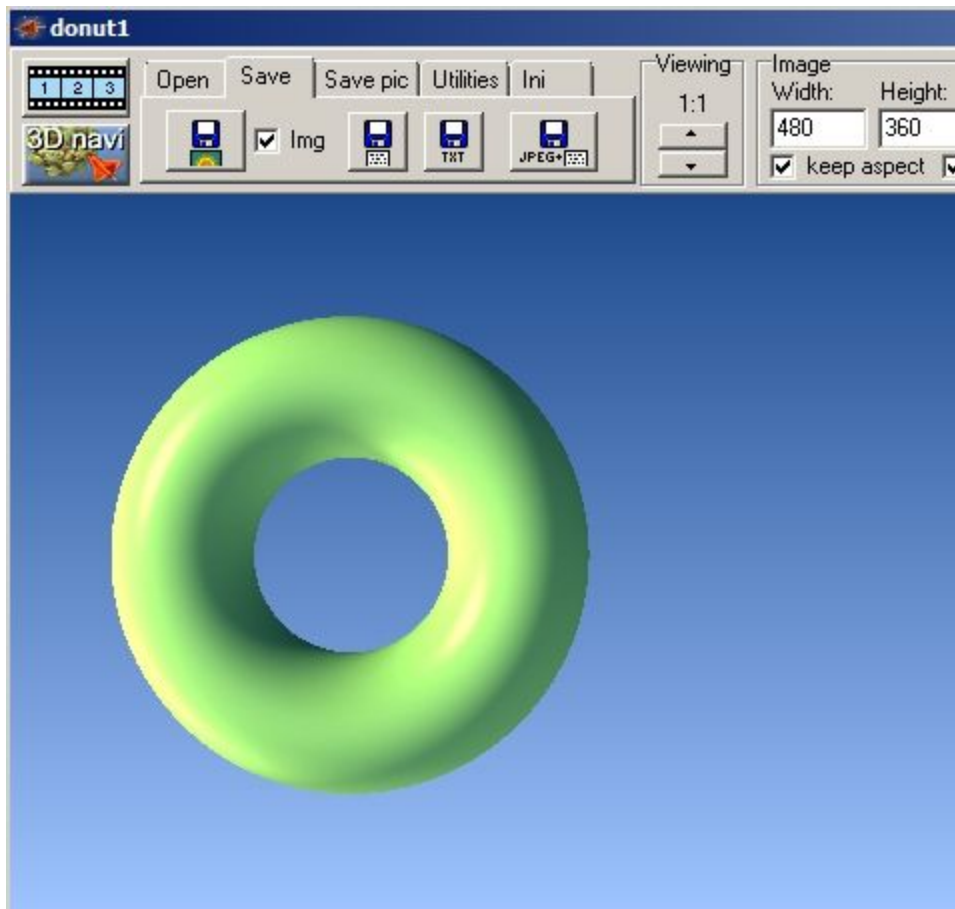
This list is not the end all, be all at this point, but over a period of time, as I add new finds and other tutorials get published I will continue to add to it so that it does become the authoritative list of Mandelbulb 3D tutorials on the internet! So, if you view this PDF file in June, it could be a completely different document in November. You should look for the newest version on the FaceBook group [Mandelbulb Maniacs](#) in the file section.

It is my intention to start with tutorials for the beginner and progress through to the latest cutting techniques and tips! However, keep in mind the number of available tutorials if

you find something that does not look in the right place. It should be mentioned that many of the tutorials listed here were written for an earlier version of Mandelbulb 3D than the current version you are using. However, the parameters, techniques and formulas used in them should work flawlessly in your software. Of course there may be exceptions to the rule but very few.

Images and a number system will be used throughout whenever possible. These tutorials can definitely improve your understanding of the software and the settings required to create some really awesome fractals. Let's get started.

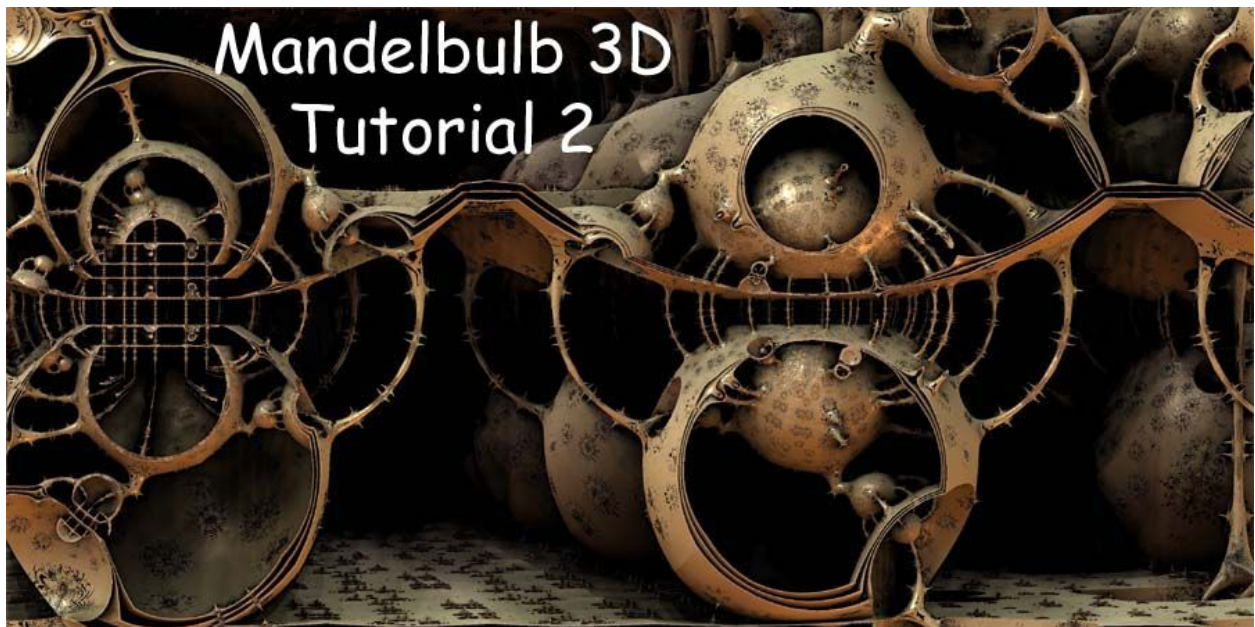
1. PC: NHA i # OM: <>: , : H=>F, OF, i # 'O?QNMN>J M



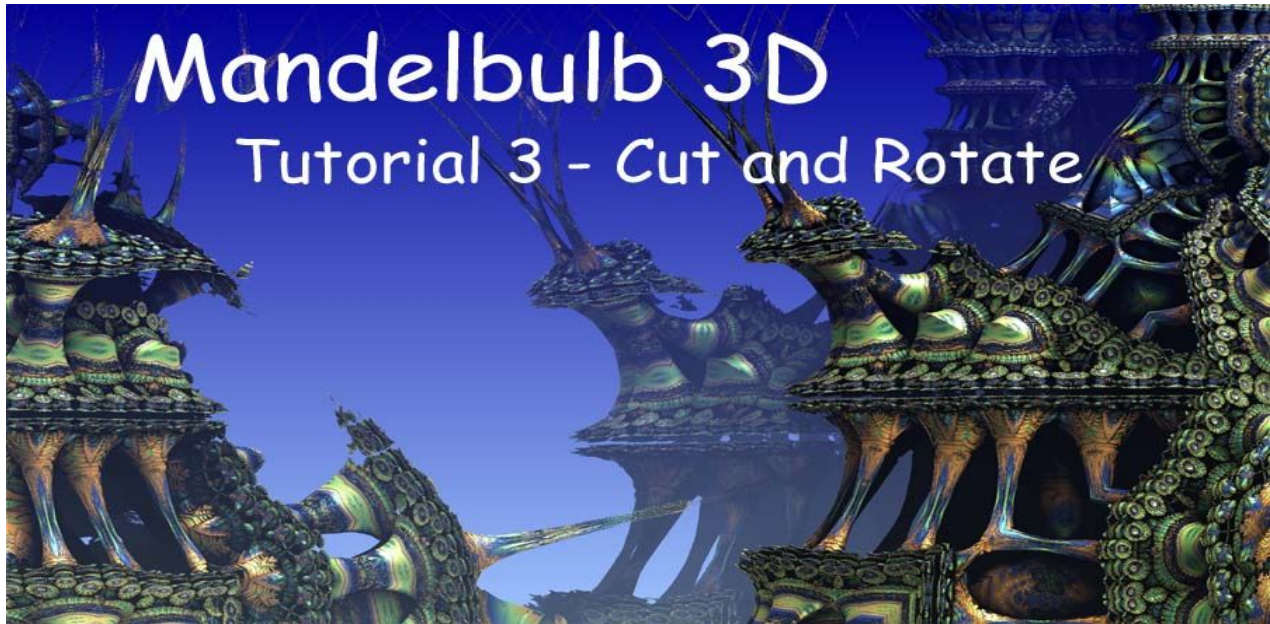
2. , : H=>F, OF, i # '3ON LC F; S" : F3>HHS



3. [Mandelbulb 3D Tutorial](#)



4. $z : H \Rightarrow F, OF, i \# '3ON LC F1 ; S' : F3 > HHS$



5. $z : H \Rightarrow F, OF, i \# '3ON LC F / \hat{A}! : M \times '3O M$

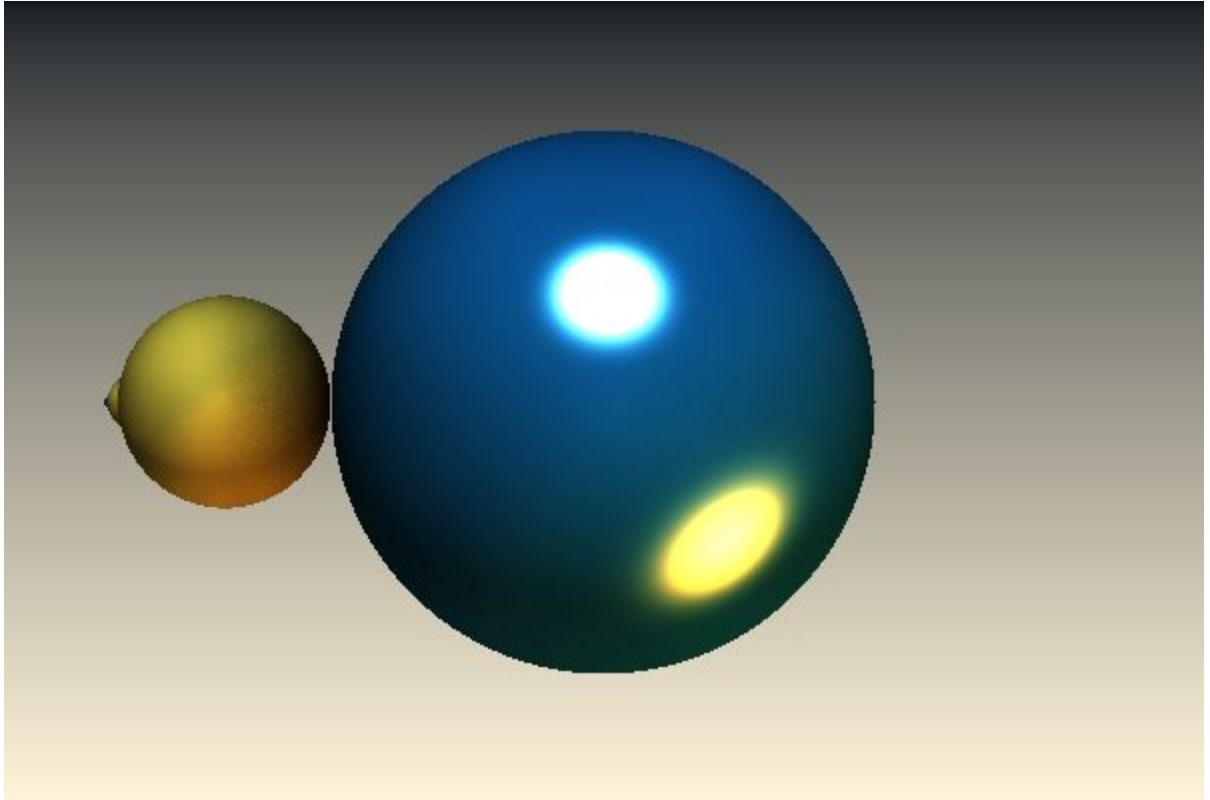
6. $z : H \Rightarrow F, OF, i \# '3ON LC Ffi \hat{A}3O M H = '3LGEM$

7. $(M F. NGA '2NLO <NOL > M(H', ! i \#$

8. $z : H \Rightarrow F, OF, i \# 'ç', : M \triangleright LGA i \# '- : PC$

9. $z : H \Rightarrow F, OF, i \# 'ç' - : PCA: NGA '3O$

10. 0 OG<EÊHÊ# CNSÂ1 >?F><NC HM H= '3L: HM: L>H<S



11. „“ J>L<>HNG QJ LGA'MNCHA'CI, ! I # ; S'
=: LEÔ >: G

12. (HMABN+ABNÕŽ , I # '+ABNHGA'3ONI LC F
; S'A: HHD H=: F

13. , : H=>F, OF, I # '(HÕ: H='I ONM<>'L>H=>L'
; S'2: ; G>fl~'

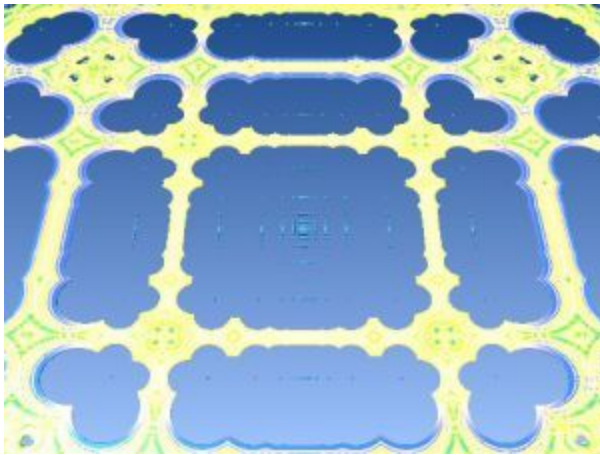
14. , : H=>F, OF, I # 'Õ2: PCHA'FABNMNCHAM
; S'2: ; G>fl~'

15. , : H=>F, OF, I # 'ÕO OG<EÊHÊ# CNS'6 I LECHA'QNB'G: JM
; S'2: ; G>fl~'

16. 0 OG<EÊHÊ# CNS'Â1 >?F><NC HM H= '3L: HM: L>H<S'

17. '0 OG<EÕHÊ# CNSÂ# I %: # >JNB'I ?%G=F,

- 18. , ! | # ! OLCHA '2BO '3ON LC F
- 19. " OMNI G " >@BN, : J M P / L , : H=>F, OF, | # ' .
- 20. , : H=>F, OF, ! : M < + @BN: H= " | H L '3ON LC F
- 21. , : H=>F, OF, | # # \$ < | G ; G: N > , R , | => '3ON LC F
- 22. +S: JOHI P'GI = < L ? L , ! | # ' .
- 23. ž H ž G : TCHA '2OL? ~ ' & OG > FCH >

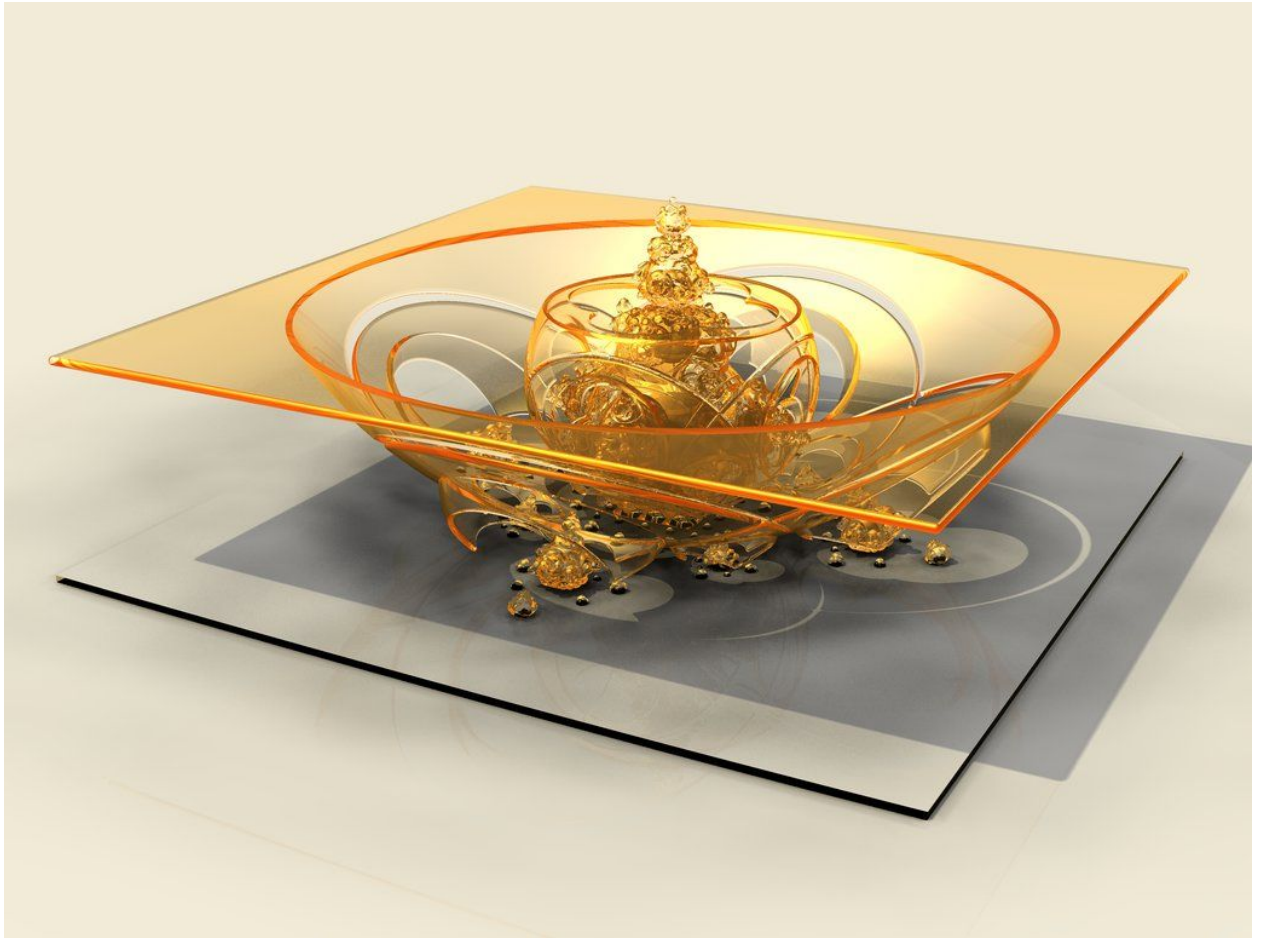


- 24. 1 \$ % + \$ " 3 (5 \$ # (% 2 ' NDN ' .
- 25. ' . 6 ' 3. ! 4 (+ # ' & . . # ' + ž - # 2" ž / \$ ' QQB , ; | = ' .
- 26. O | # ! | OF, '3ON LC F
- 27. % LG OF, , : H=: F. S* (% 2 ' Ō3O M
- 28. , : H=>F, OF, | # ž J I H ' = (% 2 '3ON LC F
- 29. ž H ž G : TCHA '2OL? Ê | | NMÊ' | Q ŌBI ' .
- 30. , : H=>F, OF, | # # \$ < | G ; G: N > , R , | => '3ON LC F

31. L>NOLHI ?B>: =Ö>CABNG: J'Ö, : H=>F, OF, I # 'OÖB'
/: L: M



32. &F. MVÕ(%2I HFS'ÇI# \$<I G; 'Õ, ! I # 'OQB'/: L: G >N\L



33. _: H=>F, OF, I # 'O OGEÊÊ# ÇNS ž HNC FC MCHA'

34. !: MÇ (HNU ', ; I # '% LG OF. '\$=ÇI L: H=) (3" I G J Ç>L'

35. \$PI FONÇ HI '?: 'ŹL <N Fç: 'ç'N 'çT'

36. >H>L: MCHA '3Ç>= '(G: A>M4 MCHA! Ç'1 >H=>L'

37. ' I Q'N 'A>N, ! I # 'QI LE'I H', : <: 2'7' " ĀĀ'

_: P>LGEM

38. ' I Q'N 'ž ==: ! : <EAU OH= '(G: A>'N', : H=>F, OF, '

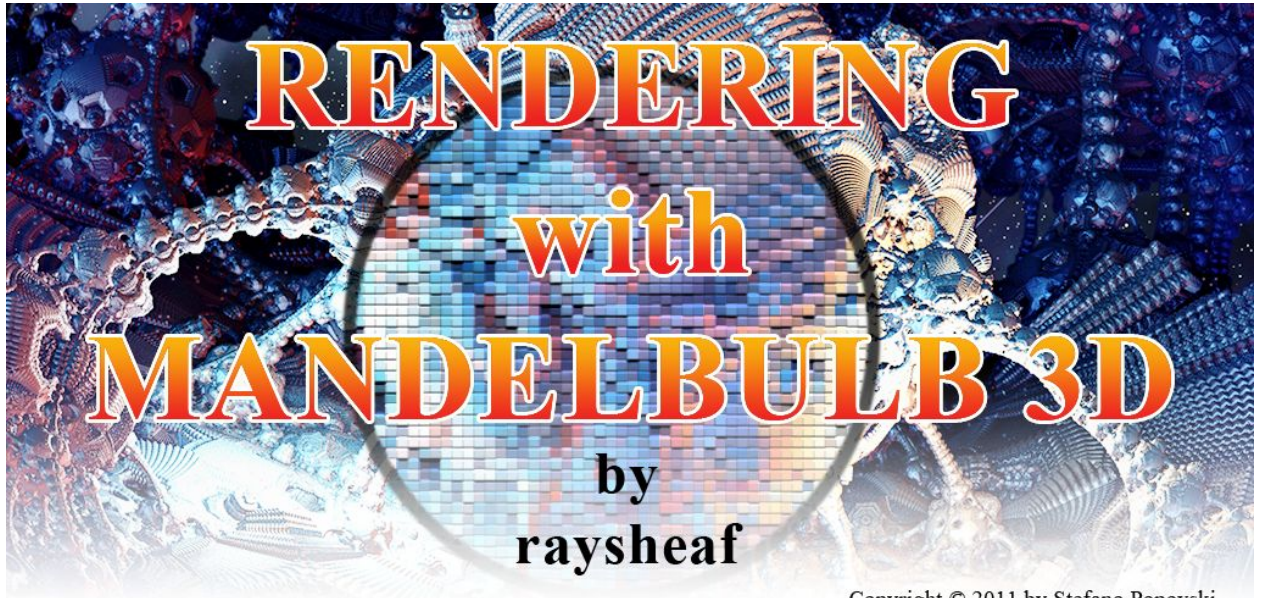
I #'

39. _: H=>F, OF, 'i # ĀG S'J LI <>MĀ

; S'><<I : LNM

40. ∅ : H=>F, OF, i # ' - : PQA: NI L'3ON LC F
41. %L: <N FCGA'8I OLMF?C%L: <N F, SM>LG>M'∅ :
42. BI QNI 'OM' " I H=(NI OHM2QOKB'
43. ∅ : H=>F, OF, i # ' O OGE'5I FOG >NLG'+CABMCHA'3ON LC F
44. ∅ : H=>F, OF, i # '&H: LFG>M# C?>L>HN6 : S'
45. ∅ : H=>F, OF,) OFC 'M CH>'NONI '
46. (HMG>ž G: TCHA! I Rê'(%2'NON
47. 6 ž 8'? M>L'AH: LF? LG OF MÀ2: G J F>J: L: G MÀ
48. 4MCHA' / I MOC H: F+CABNMO'5I FOG >NLG'+CABNGH'
∅ ! i # '
49. ∅ : M<, ∅ : H=>F, OF, ž HCG : NC H'3ON LC F
50. ∅ ! i # 'N i # ' / LGIN3ON LC F
51. ' >CABNG: JMÀFABNG: JMÀ: ==CHA'J>I J F>'HI ; D<NM
52. 5∅∅: FL>?>L>H<>'? L, ! i # '% LG OF MOJ =: N=>∅ :
53. *I <B'<O, >'G CHONN

54. 1 >H=>LCHA 'QQB', : H=>F, OF, 'i #



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55. , : H=>F, OF, 'i # 'Ō- >A: NP>'3ONI '

56. , : H=>F, OF, 'i # '3B>FŌ NMF>'! I R'NONI LC F

57. ! : LHM>'S'NONI LC FŌH>Q 'P>LNC H'

58. , ! i # '! OLHCHA '2BO '3ONI LC F

59. 5ŌŌ: FJ: LNC FAOG>'NI 'Ŕ>'H" 6 : LJ Ê

60. , : H=>F, OF, '%ž O ŌŌAA>MNC HM

61. , : H=>F, OF, 'i # '9'2NI LN3ONI LC F

62. 2OLPŔ: FND MŔ L'NB>'(HMC>'I ?3AF: =3>NL: '

63. ž G: TCHA! I R'2J B>L>M3ONI LC F

64. 2J><C FŔCHA I ?ž! I R! OF, M,

65. 6 B: N' : JJ>HMCÀ

66. ' : H=ŔCHA '8I OL! : FŔVÁ '

67. /F: <CHA I ; D<NCH, ! i # 'ŌŌBI ONI # '- : PC

68. 5I FOG >NL<'+ŔBN. LC>HN NC H'

69. , ! | # '=(%2'2B: J>M
70. , ! | # Â%G>F= ' ?'=>J NB' AOG>'
71. 2G G>SM H= # (%2'J.F. SCHA'
72. \$ASJ NC H' / I NN>LS' AA6 3%G'
73. 3ON LC F, , : H=>F, OF, ' | #'
74. , ! | # "' | H L'3ON LC F
75. ž ! | R, | = ~ 'OML>F>: M='
76. 3B> %H Q>L'2OL?
77. (HNU 'N , , : H=>F, O, ' | # '3ON LC F
78. 6 BS' (=I H> : H'Ê HÊ2G>LJ CHNĖC
79. 3I N LG: FNON LC F
80. - | 'G | L>'HI OM' | H'L><O U <: F?L: <N FM
81. 2BI LN, ! | # 'ž HCG : NC H'3ON LC F_'
82. 2BI LN, ! | # 'ž HCG : NC H'3ON LC F~'
83. 2BI LN, ! | # 'ž HCG : NC H'3ON LC F|'
84. 2BI LN, ! | # 'ž HCG : NC H'3ON LC F/'
85. 2BI LN, ! | # 'ž HCG : NC H'3ON LC Ffi'
86. ž "' | G J: LOM H'I ?2NLO<NOL>M
87. # \$ "' | G ; G: N'G | =>M P>LPG>Q'
88. " BI | M' SI OL' I QH'BI OM'
89. - | N>M H" SFG=>L(%2' M' NCHAM
90. - | N>MCH'NB>'2J B>L>'%H LG OF. >'

96. [! | : L=\(%2 : , ! | #](#)



97. [3B>'3I LOM% LG OF: >'? L, ! | #](#)



98. [# \\$ " | G ; @: N>'I P>LPG>Q](#)

For those that like video tutorials I highly recommend Don Whitaker.

1. [, : H=>F, OF, 'i # '3ON LC FM](#)

2. [, : H=>F, OF, 'i =" | Q '3I '2N LMž H='6 BSÄ](#)

3. [, : H=>F, OF, '3ON LC FÄ%L: <N F\(G : A>](#)

4. **[Mandelbulb 3d tutorial 5/4/14](#)**

5. [3ON LC FÄÄÄ' | Q 'N 'OM : HG : N='B>CABNÖG : J MOMBÄ](#)
[H>Q, Ä " , ! | #](#)

6. [/ | MOC H: F+CABN3ON LC F](#)

7. ., : H=>F, OF, i # ' / I MOC H: F+ CABN3ON LC F
8. 343. 1(ž +Õ . 6 '3. , ž * \$ %1 ž " 3ž +ž 1 3'4 2(- & ' , ž - # \$ +! 4 +! | # Õ %>> 'ž JJ ,
9. ., : H=>F, OF, i = 'NDN LC F
10. " G>G : NG %& : <N FNDN LC F
11. ., : H=>F, OF, i = 'NDN LC F; OF I Rê ' ,
12. ., : H=>F, OF, i = 'NDN LC F; OF I Rê ' ~ ' ,
13. ., : H=>F, OF, i # '3ON LC FÕž HCG : NC H'6 : FENBU OAB ' ,
14. ' I Q 'N : HCG : N 'G' , : H=>F, OF, i = 'OMHA '5 QND: F =O, : H= * : F>G>L'NDN LC F
15. %& : <N F?>MNÕ3LO J S / " I OL" # %& : <N F" I G J G. NC H ' ,

1 \$2. 41" \$2Â

1. # I QHF : = 'NB> F. N>MNB> , , : H=>F, OF, i # 'B>L>Å
2. " OMNI G ' ? LG OF: MP 'NL: HMNI LG M
3. 3>RNOL> '3 '1 >?>L>H<> '(G : A> '+C L: LS'
4. ! A? HM
5. 3>RNOL>J G N
6. I =ÅE'
7. ! >H" H Q: L= '3>RNOL> 'ž L<BQ>'
8. 3>RNOL>NÀ I G'
9. JF. H>NN>RNOL> 'G : J M
10. (G : A>: ?>LÀ I G'
11. ""3\$7341\$! (-'
12. 3>RNOL>2J I N

13. 3>RNOL> ž L<BĀ>
14. 3>RNOL>, : N
15. . J>H% I N A>
16. 3>RNOL>* ĠA
17. 6 >N : HP: M
18. 1 # 3I N ĤMP%1 \$\$ 3>RNOL> 3 1 >?>L>H<> (G : A> +C L: LS
19. 1 LAO>?Ē>
20. % N MĀI JS

, : JMĀ

1. ?L: N<B: I MG: J J: <E:(
2. ! I # " I F OL : JM
; S'4H=>: =Q̃ <: =>GS
3. L" : MM LN=, ! I # 'G: JM
; S" G=L" B: I M
4. , S, ž / 2 ? L, : H=>F, OF, I #
; S'MISTSE

/: L: G >NĀUMĀ

1. ! I # /: L: G >NĀUM: <E"" "
; SHG" ~ ~
2. G; I =H>Q J: <E'Q̃ S'3I J: M" ~
3. ! I # G: J / ž " * P
4. 3Q>: E>LV# >FABN, ! I # /: L: G >NĀUM%OH
5. /: L: G >NĀL'/: <E'% L, : H=>F, OF, i =
6. +SMĀLAG: i = +: H=M: J > J: L: G >NĀUM

7. <æB: I MG: H=>F OF, i = J: L: G >N LJ: <E
8. 2SG ; : H=>F OF, i # /: L: G J: <E
9. ; : H=>F OF, i # J: L: G >N LJ: <E
; S' >F >HG
10. ; : H=>F OF, i = /: L: G >N L /: <E
; S' fi?CHA >LM
11. ; : H=>F OF, i = /: L: G >N L /: <E
; S' fi?CHA >LM
12. % <N L % LA > ; : J M % L, ! i #
; S' MISTSE
13. ; ! i # %L: <N F M Q O B /: L: G >N LM' I F > <N = ; S
N \$ H > & L: ? R
14. ; ! i # Q O B /: L: G >N LM S' # N \$ H > & L: ? R
15. " L: ? N 6 > ; # > M A H M
16. %L: <N F % LOG M /: L: G >N LM
17.) I LA > ž ; : F Ō / I H A M Q O B 4 H => : = ž < : => G S : ~
/: A > M I ? Q I H => L ? O F (G : A > M
18. " B: L F > M I O N B * O H E F >) L A
19. 1 I M G : L G \$ = Q : L = M
20. 3 L > H N H 2 B O < E
21. 9 I N S : # — < M

21 G >'%G: F3BI OABNM

My madness runs deep when thinking about helping others learn and enjoy the thrill of creating 3D Fractal Art. It's Maniacal really! It is my genuine hope that this list of resources totally transforms your skill set in regards to your ability to create Awesome Fractals for your own joy and pleasure as well as the amazement of your friends and family!

If you have written a tutorial, shared a collection of maps or created a parameter pack that is not listed here, please contact me through da or FaceBook and I will be happy to add it.

Thank You for taking the time to download and review this list!

Ricky Jarnagin (aka DsyneGrafix) 6/6/2016`