Oct 23 rev Randomized Fractal constructions mandonized of sket At each stage, randomly select which at the four corner to The result is statistically self-similar cont compat similarity dimension:

Not self-similar box-counting dimension

Can compate the box-counting dimension

NIIIXI-3 N(''4) = 9 $N(''2^{1}) = 3^{n}$ $d_{b} = \frac{1093}{1092}$ Randomited Contor Set: At each stage, replace each interval by two pieces, L and R 1/3 with pob 1/2, and Lis scaled by 1/3 with pob 1/2
R 15 scaled by 1/3 with pob 1/4

R 15 scaled by 1/3 with prob 1/4

and 1/4 with prob 1/4

Rendanized Moran eq Average value et 12d + Average value at Rd 立・(当) +=(十十一)+ 3 (当)+4 (をか)=1 Let $x = 13)^d$. Then $(3)^d = x^2$ セメ + セ×2 + ラメ + ケ×2 = 1 5x +3x=-1 $5x + 3x^2 = 4$ X = -5 = 1/25 - 4.3. (-4) = -5 ±173 x = -5 + 473d= Log (-5-4/73)/10g (/3)