

Sept 13

Review:

Random IFS algorithm (=recipe)

Pick a starting point (x_0, y_0)

Select one of the ~~IFS~~ IFS rules at random. Call it T_i . Then

$$(x_1, y_1) = T_i(x_0, y_0)$$

Select another (it can be the same) IFS rule at random. Call it T_j . Then

$$(x_2, y_2) = T_j(x_1, y_1)$$

⋮

The collection of all the points (x_0, y_0) , (x_1, y_1) , (x_2, y_2) , ... will fill out the fractal generated by the IFS

Addresses

T_3	T_4
T_1	T_2

T_1, T_2 , and T_3 are the standard gasket rules

$$T_4(x, y) = (x/2, y/2) + (1/2, 1/2)$$

3	4
1	2

length 1 addresses

33	34	43	44
31	32	41	42
13	14	23	24
11	12	21	22

$T_4(T_2)$