Cantor Middle thirds set

has Hourdorff dimension log3.

3d Canter dust nus H-d log8 log3.

Metric vs. topological notions of continuity:

 (X, τ) (Y, ρ)

f: X -> Y ds if Yuer, f'(u) ez.

 $(\chi,1)$ (γ, r)

f: x -> y (fs it \fi, x \in X, 7 s>0 q.l. d(x, y) < s => r(f(x), f(y)) < \xi.

f(f(G)) > G f(f'(E)) = E.