

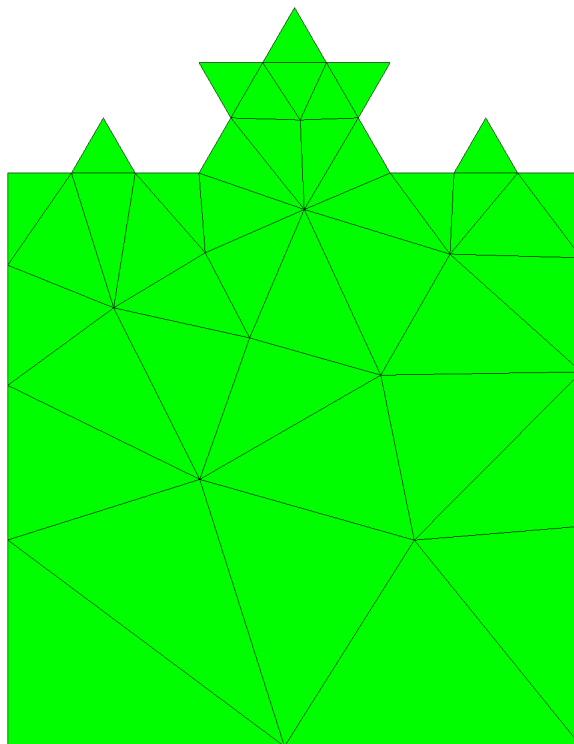
A note on geogen.py/MakeGeometry.

Chuning Wang

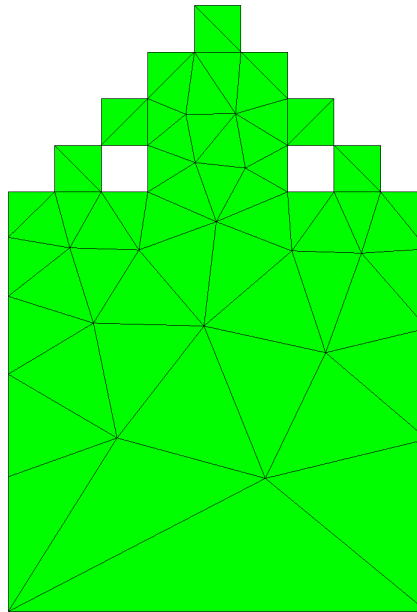
3/19/2024

```
def MakeGeometry(geotype, fractal_level=2, scaling=1, h_max=2)
```

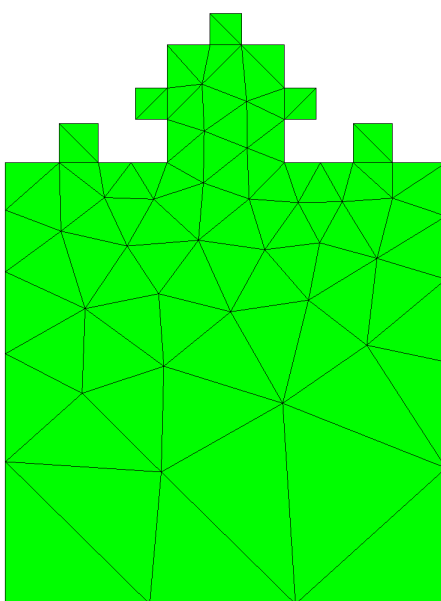
- geotype: 2d
fractal level: 2
 ℓ : 0.1111111111111111
length of the fractal: 1.7777777777777777



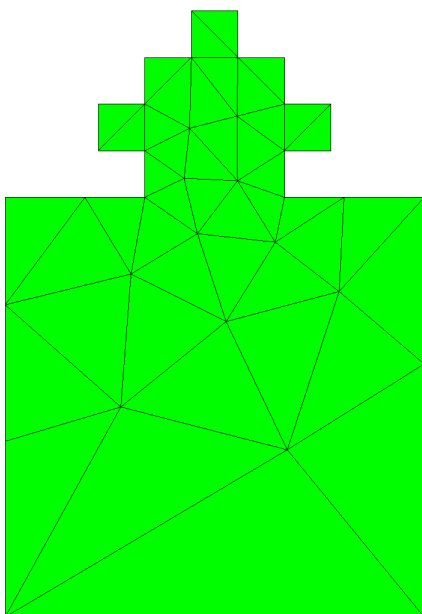
- geotype: 2dquad
fractal level: 2
scaling: 1.0
 ℓ : 0.1111111111111111
length of the fractal: 2.7777777777777772



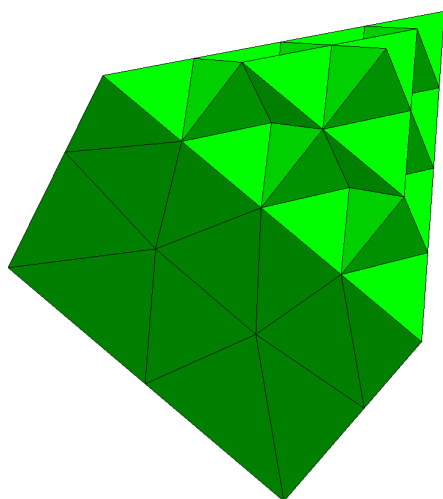
- geotype: 2dquad
fractal level: 2
scaling: 0.8
 ℓ : 0.08888888888888889
length of the fractal: 2.315555555555556



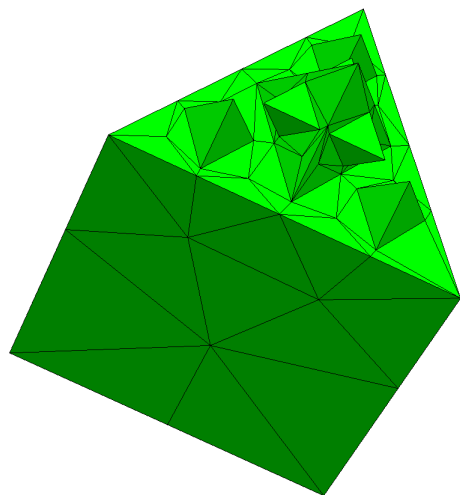
- geotype: 2dmidquad
fractal level: 2
scaling: 1.0
 ℓ : 0.1111111111111111
length of the fractal: 1.4444444444444444



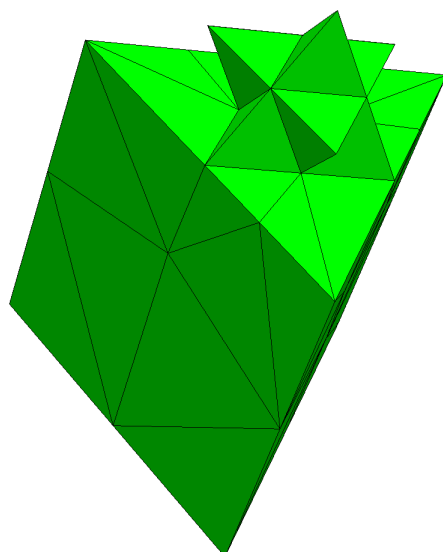
- geotype: 3d
fractal level: 2
scaling: 1.0
 ℓ : 0.25
area of the fractal: 0.9742785792574934



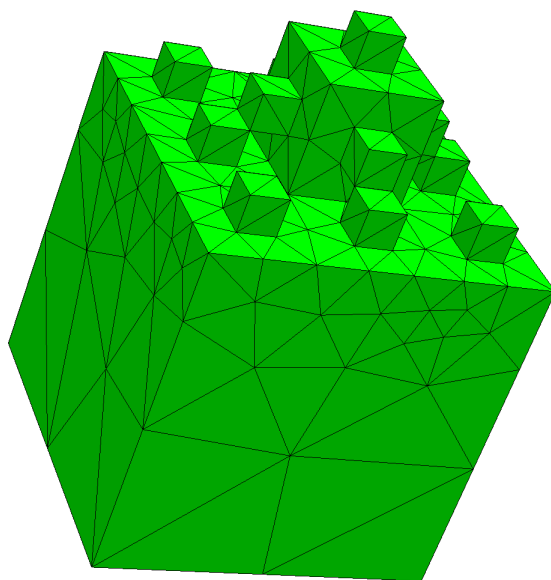
- geotype: 3d
fractal level: 2
scaling: 0.8
 ℓ : 0.16000000000000003
area of the fractal: 0.742010565962507



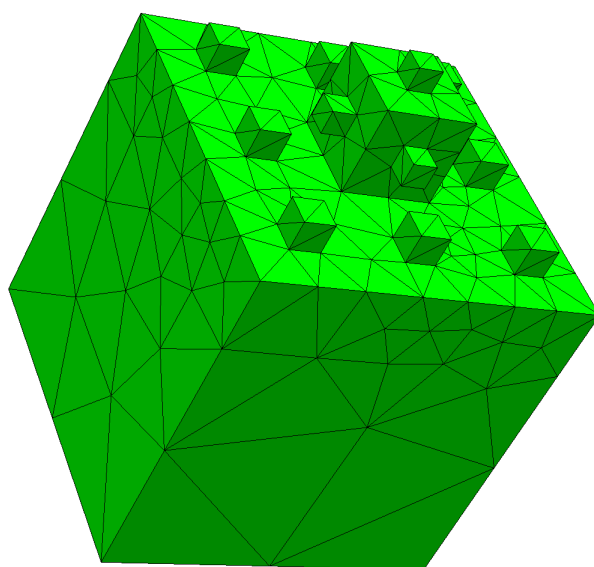
- geotype: 3dmid
fractal level: 2
scaling: 1.0
 ℓ : 0.25
area of the fractal: 0.8118988160479111



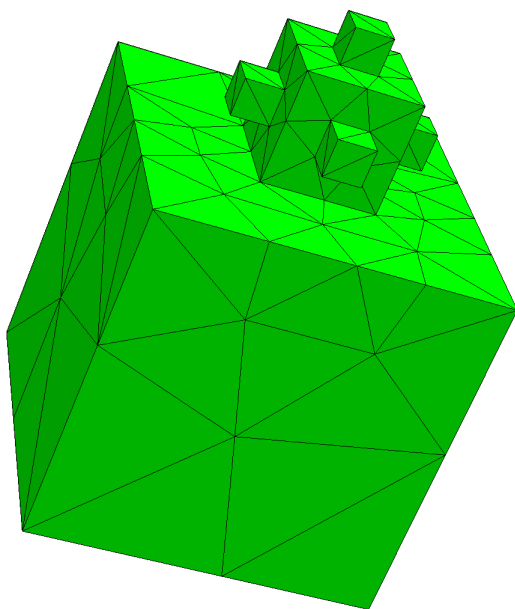
- geotype: 3dquad
fractal level: 2
scaling: 1.0
 ℓ : 0.1111111111111111
area of the fractal: 2.0864197530864197



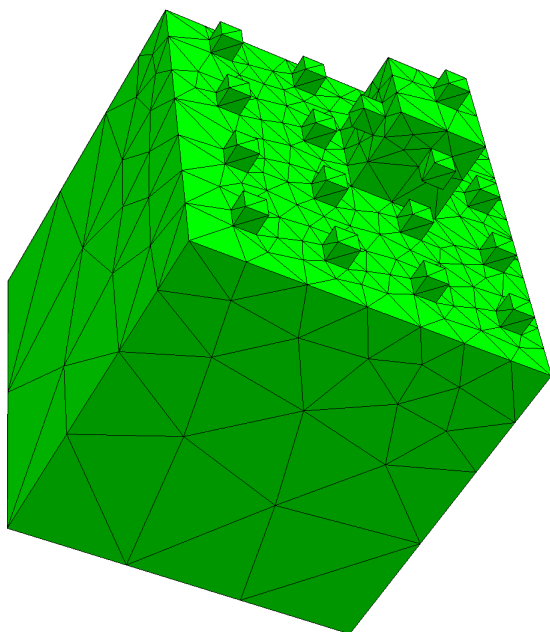
- geotype: 3dquad
fractal level: 2
scaling: 0.8
 ℓ : 0.07111111111111111
area of the fractal: 1.6384197530864197



- geotype: 3dmidquad
fractal level: 2
scaling: 1.0
 ℓ : 0.1111111111111111
area of the fractal: 1.691358024691358



- geotype: 3d14quad
fractal level: 2
scaling: 1.0
 ℓ : 0.0625
area of the fractal: 1.5625



- geotype: lshape

