Tokyo University of the Arts
Art Media Center
Generative Design 2015

title: bookshelf

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ジェネラティヴ・デザイン第1課題レポート

乱数を用いたプログラミング
生成されたオブジェクトを、ワッフル構造に転換し、出力（素材：mdf）

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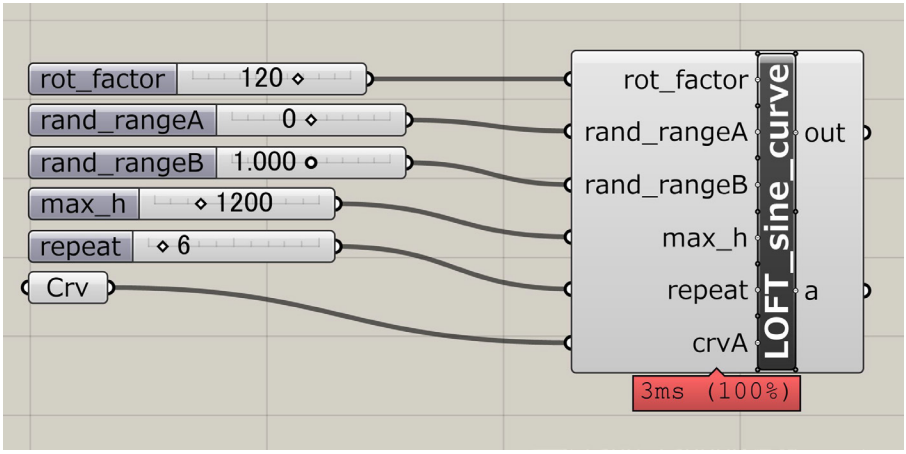

Grasshopper Python Script Editor

File Help

```
import rhinoscriptsyntax as rs
import Rhino.Geometry as rg
import random
import math

objs = []
dplist = []
#repeat = 10
interval = max_h / (repeat-1)
for i in range(int(repeat)):
    dp = rs.CopyObject(crvA)
    xscalef = 1 * random.uniform(0,rand_rangeB)
    yscalef = 1 * random.uniform(0,rand_rangeB)
    dp = rs.ScaleObject(dp,[0,0,0],[xscalef,yscalef,1])
    rot = math.sin(math.pi/10*i)*rot_factor
    dp = rs.RotateObject(dp,[0,0,0],rot)
    xmv = random.uniform(-rand_rangeA,rand_rangeA)
    ymv = random.uniform(-rand_rangeA,rand_rangeA)
    dp = rs.MoveObject(dp,[xmv,ymv,i*interval])
    objs.append(dp)
    dplist.append(dp)

srf = rs.AddLoftSrf(dplist)#,None,None,1,1,0,True)
objs.extend(srf)
a = objs
```