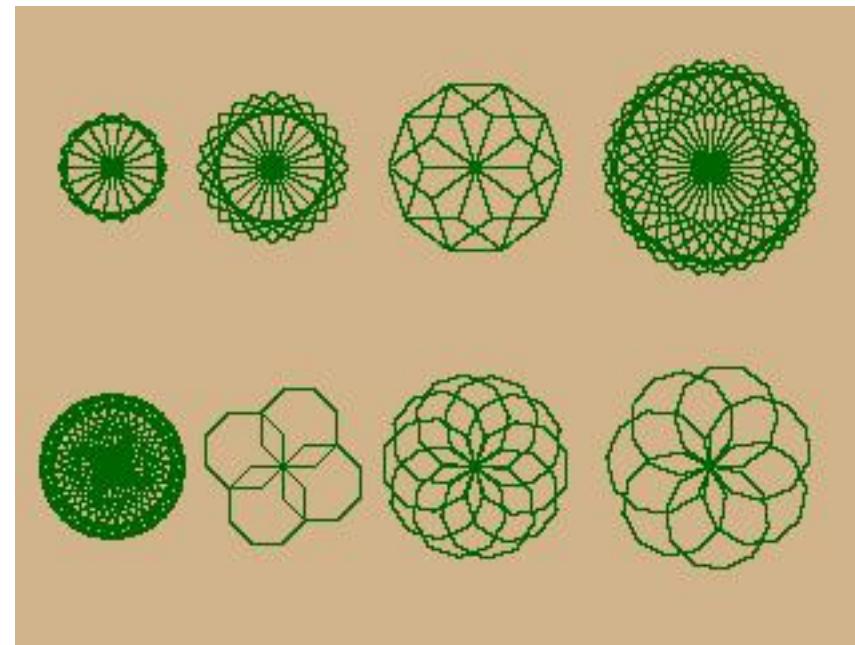


Turtle

December 2011

Example



Program

```
from PIL import Image
from math import cos,sin,pi
#
img=Image.new('RGB',(640,480),(210,180,140))
#
xt=320.0
yt=240.0
ht= 90.0
#
```

Functions (1)

```
def jump(xnew,ynew):  
    global xt, yt  
    xt=xnew  
    yt=ynew  
#  
def turn(dh):  
    global ht  
    ht+=dh
```

Functions (2)

```
def move(r):
    global xt,yt
    #
    oldx,oldy=xt,yt
    #
    xt += r*cos(ht*pi/180.0)
    yt += -r*sin(ht*pi/180.0)
    #
    drawline(oldx,oldy,xt,yt)
```

Lab Assignment: Square, Poly, Spin Poly

-