

# Recursive Images and Lab 9: Ethics

Following images are from: <http://www.bfoit.org/itp/Recursion.html>

# A recursive image

- Squiral: a square spiral
- Unique in that each recursive call actually makes the “problem” bigger than before
- Base case is the largest line size desired
- Or could start from the outside if the space taken up is figured out beforehand
- Base case is then smallest line size

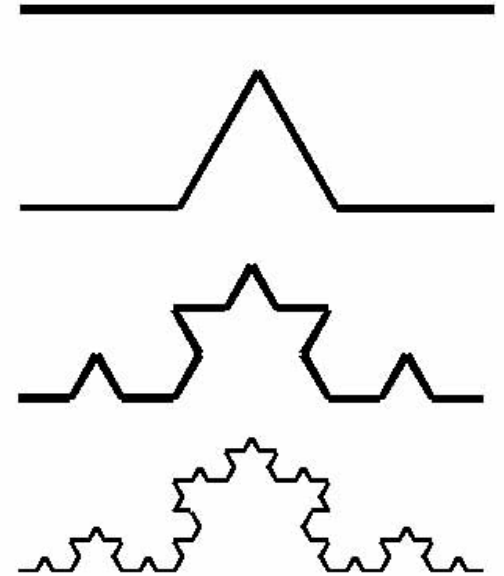


# In the Finch

- side 1 SJOG 2000 20.0 20.0
- side 2 TURN 90 20.0
  
- squiral 1 META side NONE Level If 1 .2

# Another recursive image

- Koch curves: Draw a line, but the middle third is a triangle
- Base case: draw a straight line
- Recursive case: set up similar to String parser from class  
+, -: turn to the right/left by some set amount



$F \rightarrow$  base case

$F \rightarrow F + F - - F + F$

- The - - can be replaced by a single symbol, recognized to be double the amount

# In the Finch

- curve 4 META curve terminal BeakUp IfNot .8  
.2
- curve 5 TURN -60 20.0
- curve 6 META curve terminal BeakUp IfNot .8  
.2
- curve 7 TURN 120 20.0
- curve 8 META curve terminal BeakUp IfNot .8  
.2
- curve 9 TURN -60 20.0
- curve 10 META curve terminal BeakUp IfNot  
.8 .2