

## fractals.py

```
378 class KochCurve(Scene):
379     def construct(self):
380
381
382         l = Line([-4, 0, 0], [4, 0, 0], color = WHITE)
383
384         self.add(l)
385         self.wait()
386
387         gPrev = VGroup(l)
388         gNow = VGroup()
389
390         maxIter = 4
391
392         for i in range(maxIter):
393             gNow = VGroup()
394             for l in gPrev:
395                 direction = l.get_start() - l.get_end()
396                 l1 = l.copy().scale(1/3).shift(direction/3)
397                 l2 = l.copy().scale(1/3).shift(-direction/3)
398                 l3 = l.copy().scale(1/3)
399                 pt = l3.get_start()
400                 l3.rotate(PI/3, about_point = pt)
401                 l4 = l.copy().scale(1/3)
402                 pt = l4.get_end()
403                 l4.rotate(-PI/3, about_point = pt)
404
405                 gNow.add(l1, l3, l4, l2)
406
407             self.clear()
408             self.play(Write(gNow))
409             self.wait()
410             gPrev = gNow
```