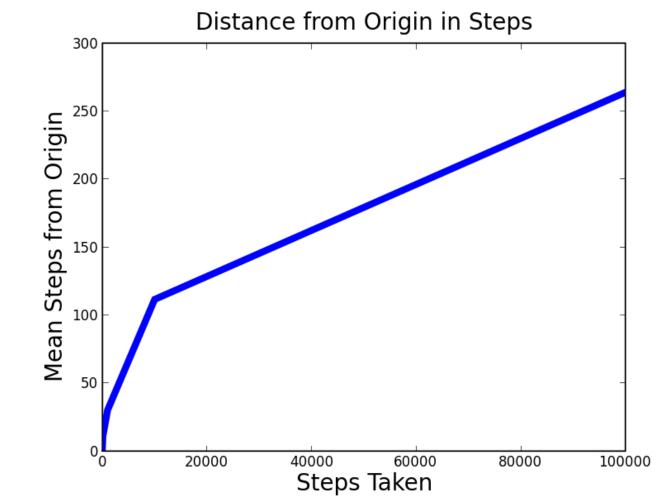
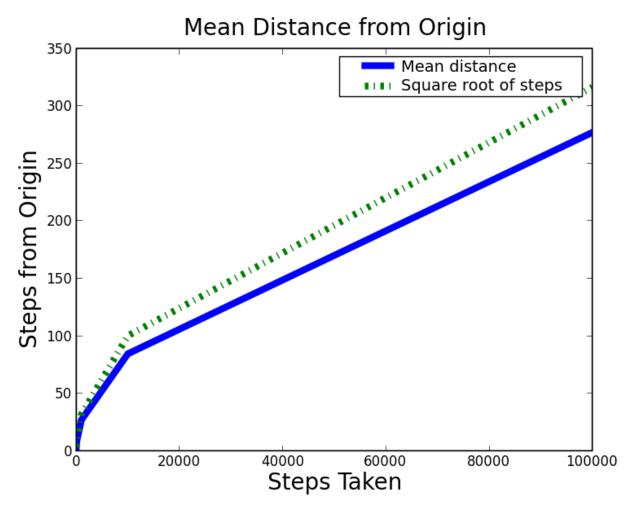
Random Walks and Simulation Models

Lecturer: John Guttag





```
class EDrunk(Drunk):
  def takeStep(self):
      deltaX = random.random()
      if random.random() < 0.5:
          deltaX = -deltaX
      deltaY = random.random()
      if random.random() < 0.5:
          deltaY = -deltaY
      return (deltaX, deltaY)</pre>
```

```
def simWalks(numSteps, numTrials):
homer = UsualDrunk('Homer')
origin = Location(0, 0)
distances = []
for t in range(numTrials):
  f = Field()
  f.addDrunk(homer, origin)
  distances.append(walk(f, homer, numSteps))
return distances
```