from __future__ import division
from visual import *

craft = sphere(pos = vector(10e7,0,0), color = color.white, radius = 1e6)

while t < tf:
    trail.append(pos = craft.pos)
    craft.pos = craft.pos + pcraft/mcraft*deltat
    Fgrav = -G*mEarth*mcraft/mag(r)**2*rhat
    vcraft = vector(0,2400,0)
    mEarth = 5.97e24
    mcraft = 1500
    G = 6.67e-11

References