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### INITIALIZE VPYTHON
from __future__ import division
from visual import *
from physutil import *
                                                                                   Set up the theater
from visual.graph import *
### SETUP ELEMENTS FOR GRAPHING, SIMULATION, VISUALIZATION, TIMING
# Set window title
scene.title = "My Buggy Model"
                                                                          Assemble the actors in the play
# Make scene background black
scene.background=color.black
# Define scene objects
track = box(pos =vector(0,-.1,0),size=(3,.1,1),color = color.green) #units are m
car = box(size=(.3,.1,.2), color = color.blue)
# Define axis (with a specified length) that marks the track with a specified number of tick marks axis = PhysAxis(track, 16, length=3) #units are in m
# Set up graph
positiongraph = PhysGraph()
# Set up trail to mark the car's trajectory
trail = curve(color = color.yellow, radius = .01) #units in m
# Set timer in top right of screen
timerDisplay = PhysTimer(1,1)
### SETUP PARAMETERS AND INITIAL CONDITIONS
# Define parameters
                                                                                   Set up actors on stage at beginning
car.m = 1. #mass of car in kg
car.pos = vector(0,0,0) #initial position of the car in(
                                                               ,z) form, units are m
car.v = vector(-.5,0,0) #initial velocity of car in
                                                                            ts are m/s
                                                      Physics is here
# Define time parameters
t=0 #starting time
deltat = 0.001 #time step units are s
### CALCULATION LOOP; perform physics updates and drawing
while car.pos.x > -1.50 and car.pos.x < 1.50 : #while the ball's x-position is between -1.5 and 1.5
    # Required to make animation visible / refresh smoothly (keeps program from running faster than 1000 frames/s)
    rate(1000)
    # Compute Net Force
    Fnet = vector(0,0,0)
    # Newton's 2nd Law
                                                        Physics is here
    car.v = car.v + Fnet/car.m * deltat
                                                                                              Run the play
    # Position update
    car.pos = car.pos + car.v*deltat
    # Update timer, graph, and trail
    timerDisplay.update(t)
positiongraph.plot(t,car.pos.x) #this plots one point in the graph in (x,y) form
    trail.append(pos = car.pos)
    # Time update
    t=t+deltat
### OUTPUT
# Print the final time and the car's final position
print t
print car.pos
                                                                                   Review the results
```