Scientific Programming with Python

Projectile Motion (with and without air resistance) description

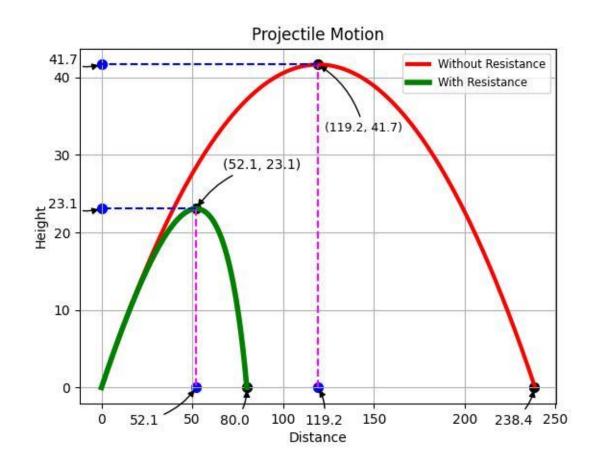
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This is a basic and simple model for the motion of an object in air (**Projectile Motion**). One can analyze the **difference** between the motion of the object **with air resistance** and **without air resistance** with some same fixed initial values.

There are three main steps in the (Python) code.

- 1) Setting some initial values
- 2) Defining a function for the motion without air resistance
- 3) Defining another function for the motion with air resistance

The plot (graph) of the motion is given by:



The **formulas** used in this model are given at the end of the description. One can check the detail of the model by visiting the python code file.

