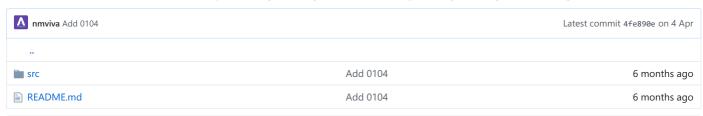
Branch: master ▼

Create new file

Upload files

le Histo

vivadata-student-003 / curriculum / 01-Python-Programming / 04-Oriented-Object-Programming / 01-Challenges / 03-Vehicule /



README.md

01-04

[™] Challenge 03 - Vehicles



Picture by chuttersnap

Objectives

Inheritance and properties

Guidelines

1. Write a class Vehicle:

- a vehicle is defined by the attributes year, brand, color, wheels, consumption, fuel, kilometers. It also has speed which is always zero when the vehicle is instanciated.
- write methods to start, stop, accelerate and brake with an increment or decrement of speed by 10 each time it is called.
- 2. Start a timer when the vehicle start and stop the timer when the vehicle stop. Meanwhile, update the kilometers and the fuel depending on the driving (speed, accelerate and stop)
- 3. Write two new classes Car and Motorbikes . Imagine what could change in the attributes and methods.
- 4. Review the control access in all the previous classes.

Your program must be written in src/vehicle.py . You should be able to instanciate circles and play with them directly from your iPython console.