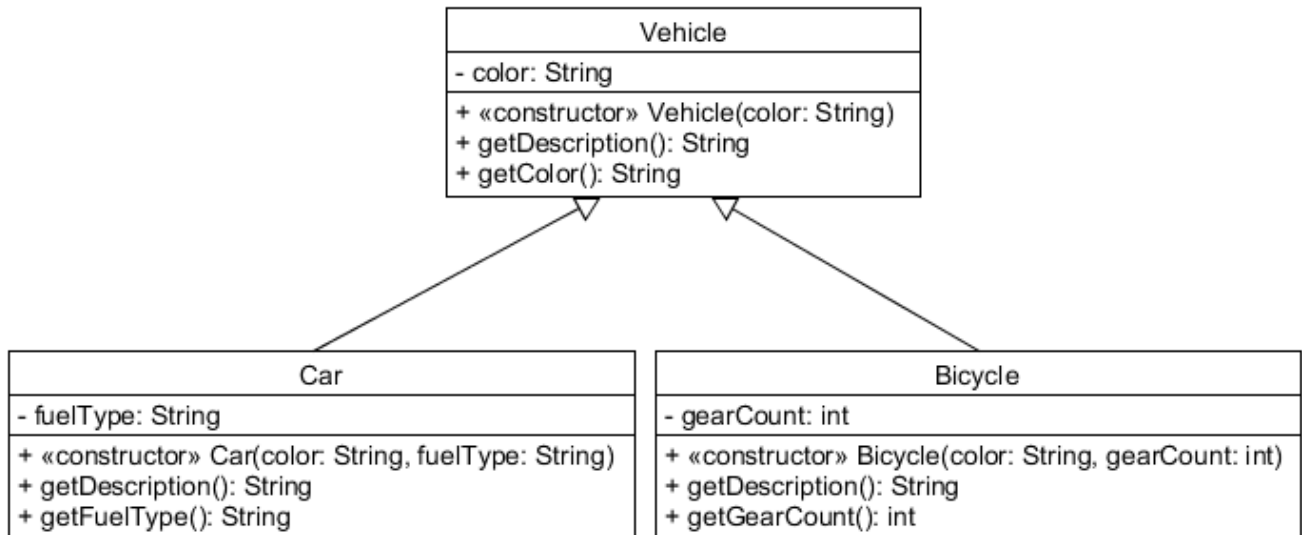# Vehicle – Bicycle – Car Exercise

This exercise is an elaboration on section 10.7.5 (6th ed.) or 8.7.5 (5th ed.) of the BlueJ book.

1. Implement the class diagram below.

The getDescription() method should return a String representation of what kind of vehicle it is, and add all the relevant (and available) information we have about it. Remember to use the **super** keyword where appropriate.

2. Instantiate three kinds of vehicles: a Vehicle, a Car, and a Bicycle. Try to assign each variable to the other. E.g.:

> **Vehicle v1 = new Bicycle("Green", 21);**
> **v = b;**
> **b = v;**
> …

Try all combinations, try to compile and run the methods. Explain in terms of **static and dynamic types** why each combination works or doesn't work.