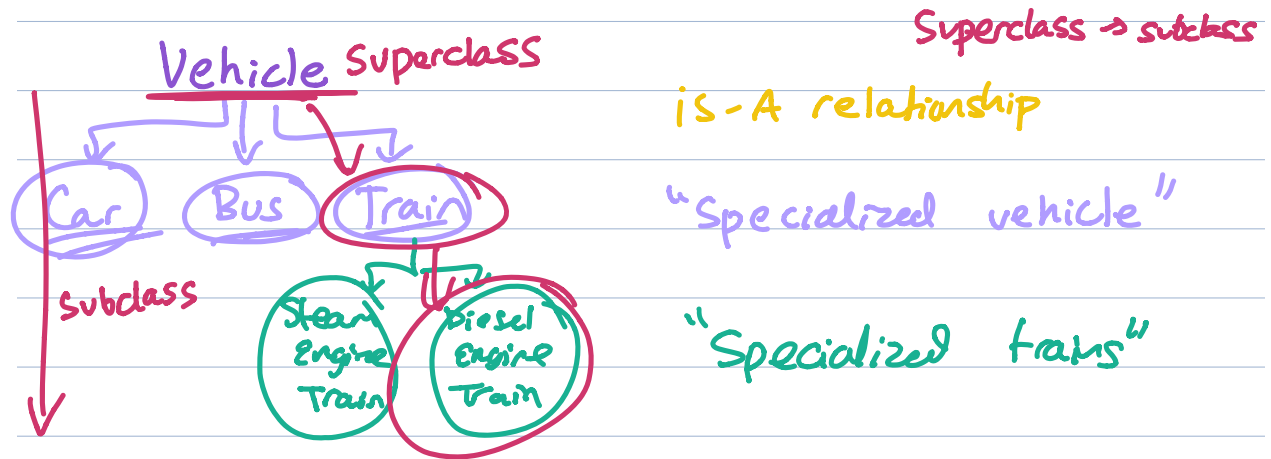
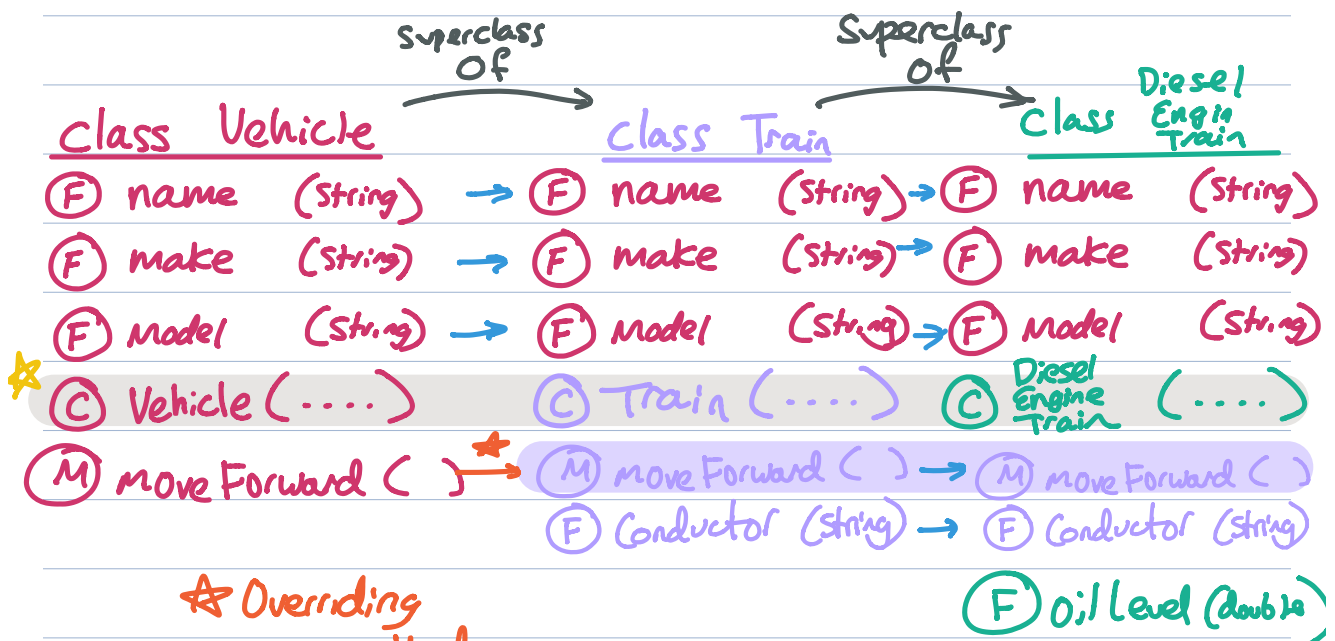


Inheritance → Idea of a class "inheriting" properties from another class



Hierarchy is created

★ Constructors are NOT inherited!



★ Overriding a method

```
class Vehicle {
```

```
    // fields
```

```
    public String name;
```

```
    public String make;
```

```
    public String model;
```

```
    // constructor
```

```
    public Vehicle (...)
```

```
    { /* implementation not shown */ }
```

```
    public void moveForward() {
```

```
        // do something
```

```
    }
```

```
}
```

```
class Train extends Vehicle {
```

```
    // field
```

```
    public String conductor;
```

```
    // constructor
```

```
    public Train (...)
```

```
    { /* implementation not shown */ }
```

```
    public void moveForward() {
```

```
        // do something else
```

```
    }
```

```
}
```

Overriding
the
method

```
class DieselEngineTram extends Train {
```

```
    // field
```

```
    public double oilLevel;
```

```
    // constructor
```

```
    public DieselEngineTram(...)
```

```
    { /* implementation not shown */ }
```

```
}
```

super (keyword) → accesses the superclass's
constructor

List of Vehicles ← Train ✓

List of Trams ← vehicle ✗