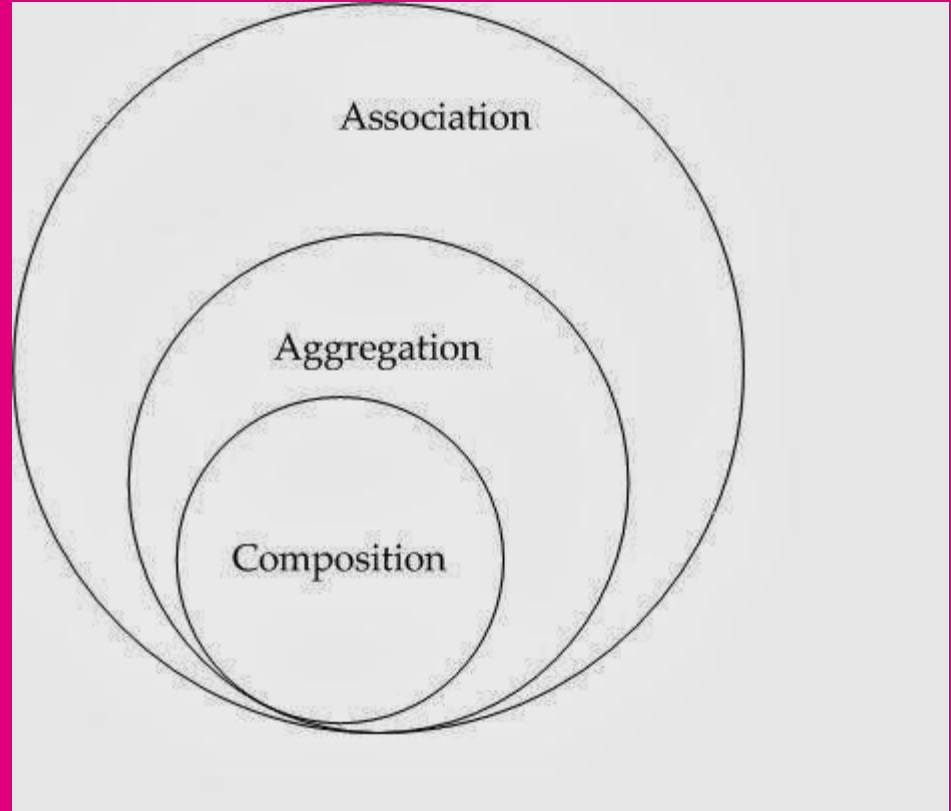


Composition

Aggregation & Composition

Types of Associations between Classes



Association

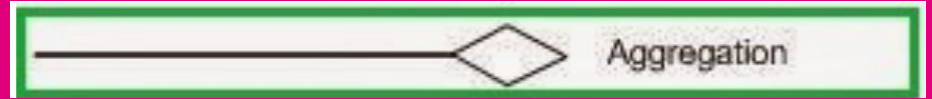


The overall relation between classes
(The one we have used until now)



Aggregation - Has A relation

A Car has a Driver



A weak relation between Classes.

Could a Car exist without a driver?

If Yes, there is an Aggregation association.

You can delete either the Driver or the Car, but it would not affect the other.

Composition - Is Part Of - relation

A Strong Association between Classes

Engine is part of Car



Would a Car function without an Engine?

If “**no**” then it is **Composition**

If you delete the car the engine also will disappear!

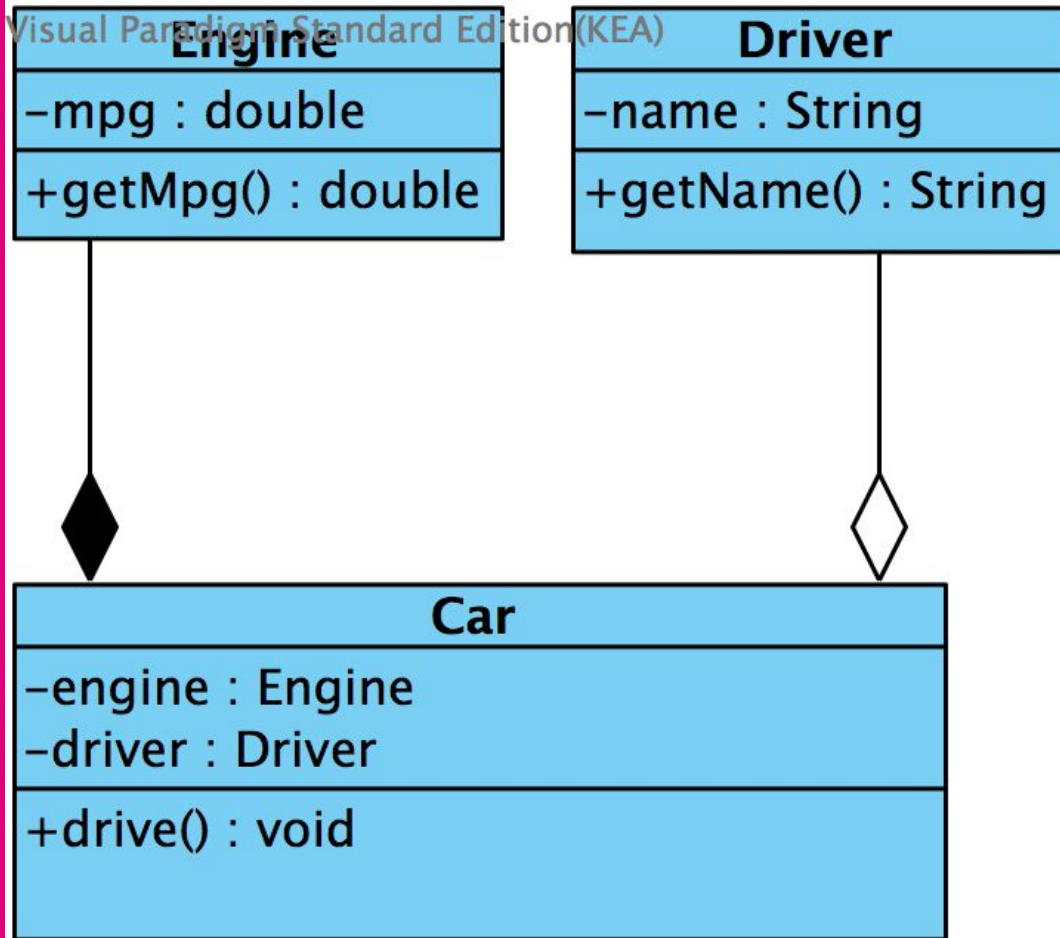
Composition - Is Part Of - relation

Document & Pages objects



A Page is part of a Document

If you delete the Document you also delete the page.



Exercise

Fröter:

Materials used in Teachings ->

08 Inheritance & Composition ->

Exercise Class and Class diagram.pdf