

CLASS Diagrams

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imran khattak

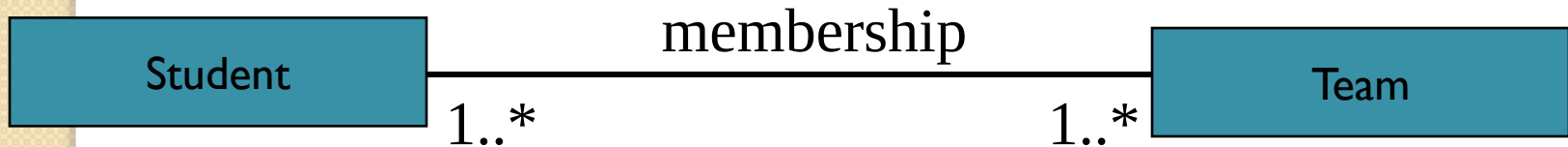
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Association Relationships (Cont'd)

We can also name the association.

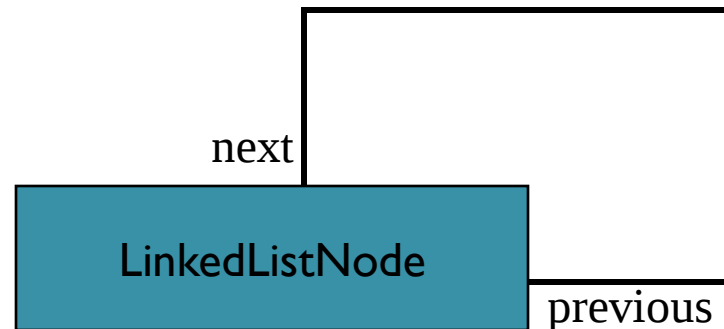
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Association Relationships (Cont'd)

A class can have a self association.

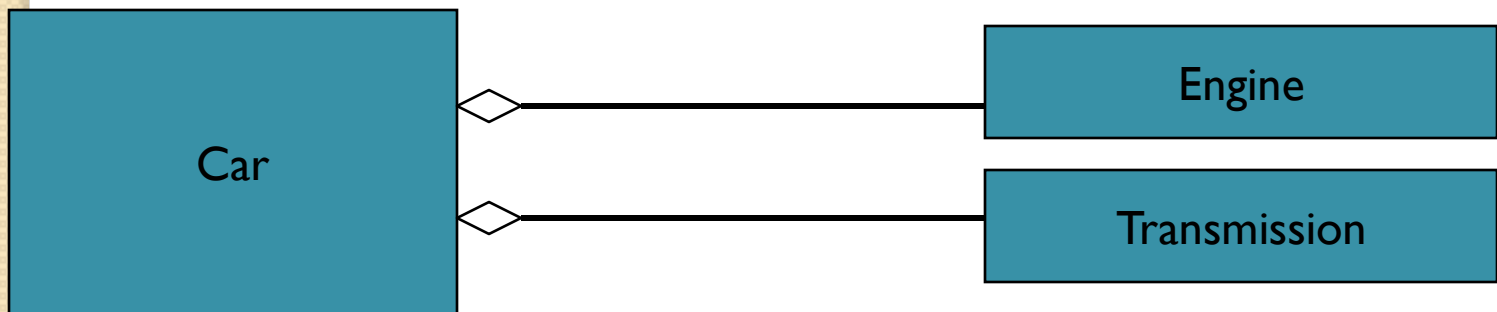
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Association Relationships (Cont'd)

We can model objects that contain other objects by way of special associations called *aggregations* and *compositions*.

An *aggregation* specifies a whole-part relationship between an aggregate (a whole) and a constituent part, where the part can exist independently from the aggregate. Aggregations are denoted by a hollow-diamond adornment on the association.



Class Attributes, Operations

- Recall in Java and C++ you may have class attributes and class operations
 - keyword *static* used
 - One attribute for all members of class
 - An operation not encapsulated in each object, but “defined in” that class’ scope
- In UML class diagrams, list these in the class box’s compartments, but underline them