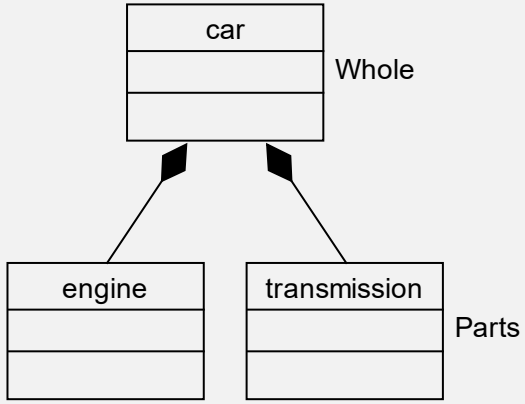
CONSTRUCTIVE RELATIONSHIPS

The fundamental structure of object-oriented programs

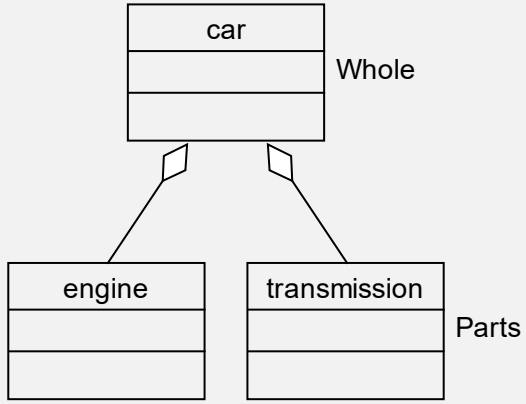
Delroy A. Brinkerhoff

TWO WHOLE-PART IMPLEMENTATIONS

COMPOSITION

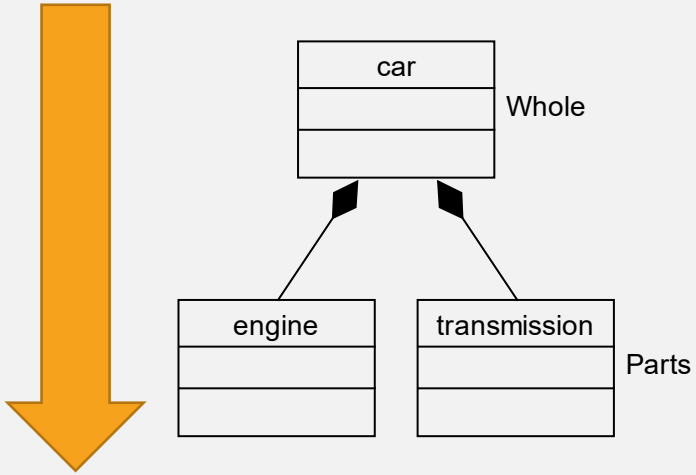


AGGREGATION



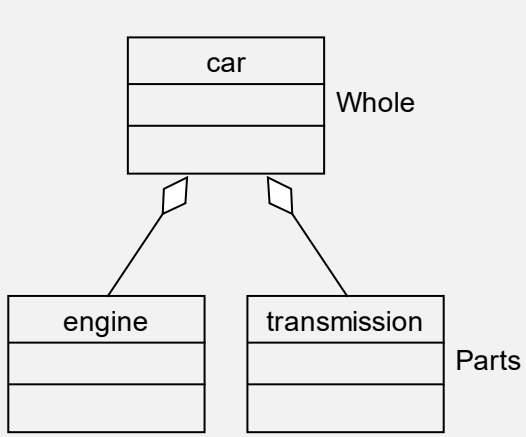
TWO WHOLE-PART IMPLEMENTATIONS

COMPOSITION



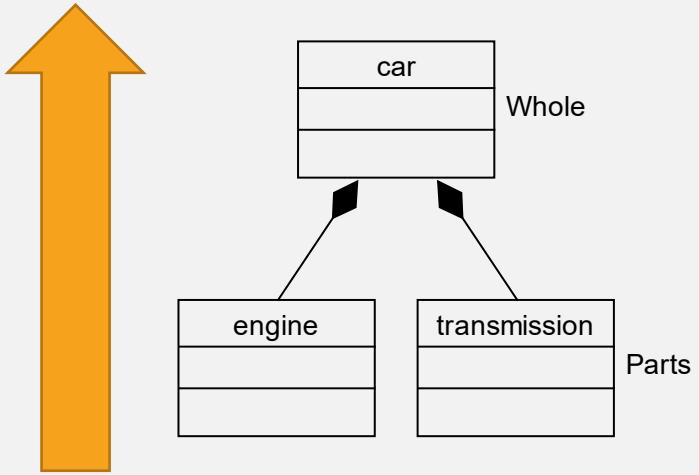
"Has-A"

AGGREGATION



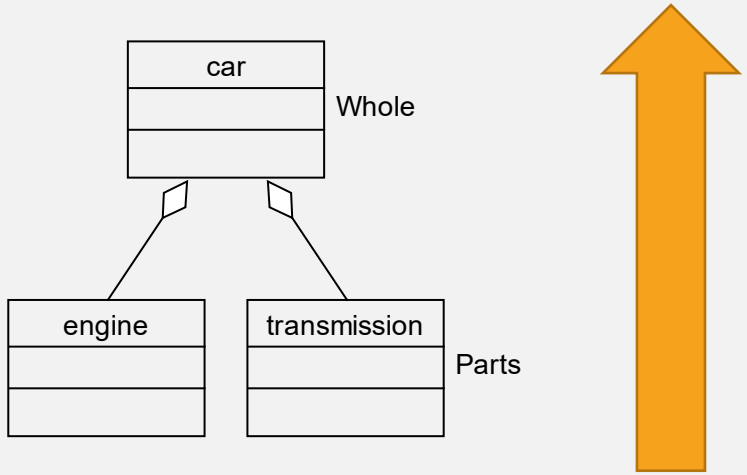
TWO WHOLE-PART IMPLEMENTATIONS

COMPOSITION



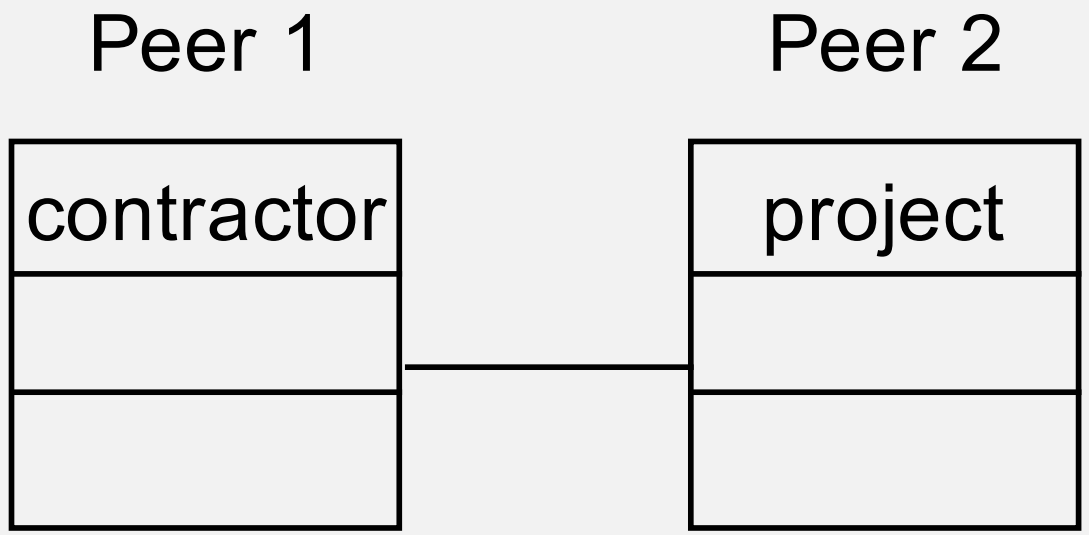
"Is A Part-Of"

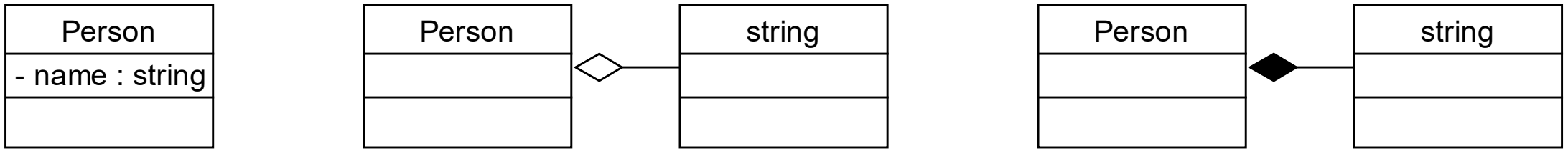
AGGREGATION



ASSOCIATION

- Association is bidirectional
- "Has-a" relationship that reads well in both directions
  - A contractor "has-a" project
  - A project "has-a" contractor





MODELING WITH LIBRARY CLASSES