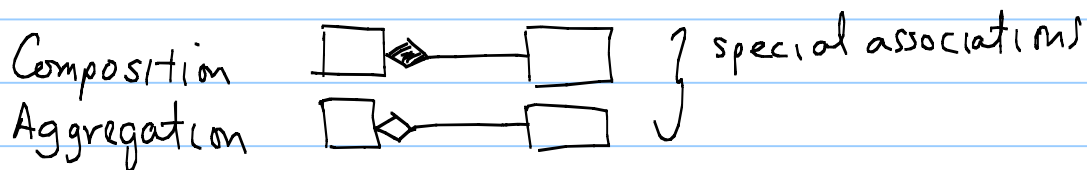
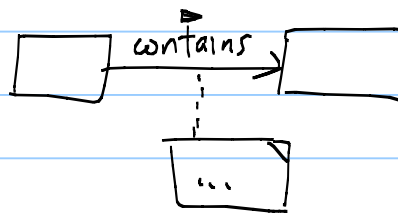


Associations : Whole or Part

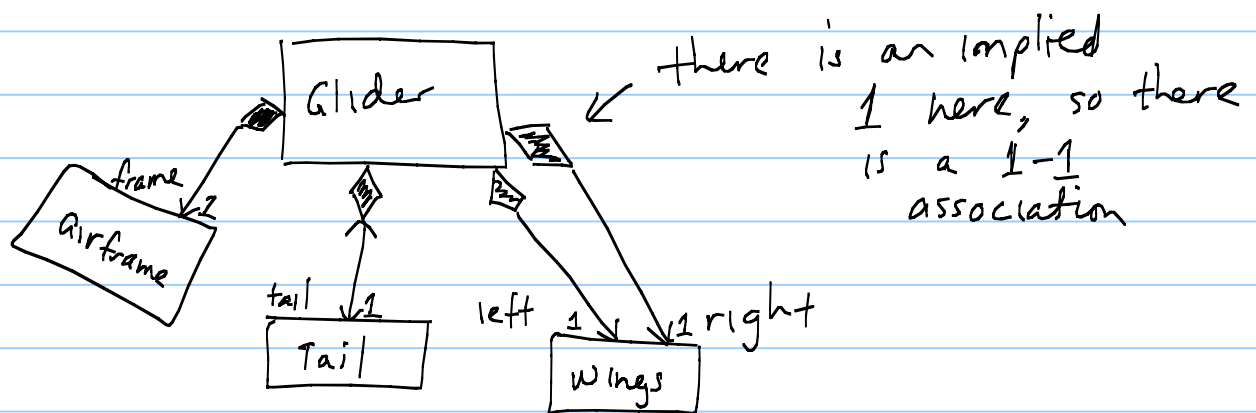


If in doubt, use a normal association and write what you mean over the arrow or in a note

ie:



Composition : Parts of Components (made of parts)



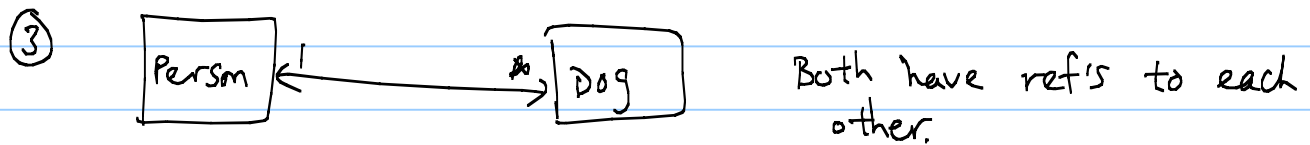
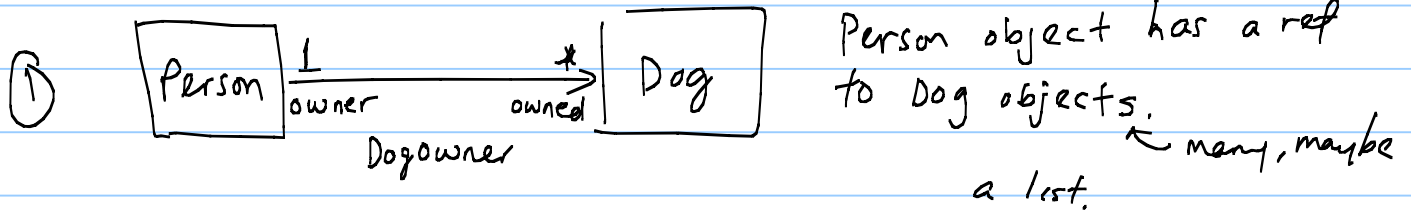
- 1) Composite object does not exist w/o its components
 \Rightarrow composite cannot outlive its components

ie: if we delete a composite object, we should do a cascading delete, delete its children...

- 2) \forall components c , each c is part of a single composite.

3) Typically: components are of \neq types

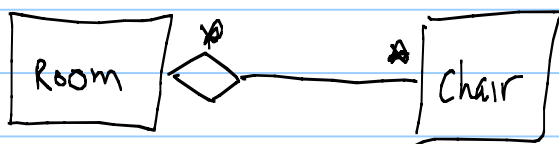
NAVIGATION (this topic comes before ASSOCIATION)



This relates to PERFORMANCE (at the cost of space)
ie: how many ref's to keep.

See navigation in Glider diagram w/ Glider & tail.
Usually, components don't refer to the composite.
The composite refers to its components (as in wings)

AGGREGATION



A room has many chairs.
A chair can be in different rooms.

- 1) ^(Whole) Aggregate object can exist w/o ^(parts) aggregands
- 2) Objects may be part of multiple aggregates
- 3) Typically, components are of $=$ type.