

miUML Formalization Subsystem scrapbook

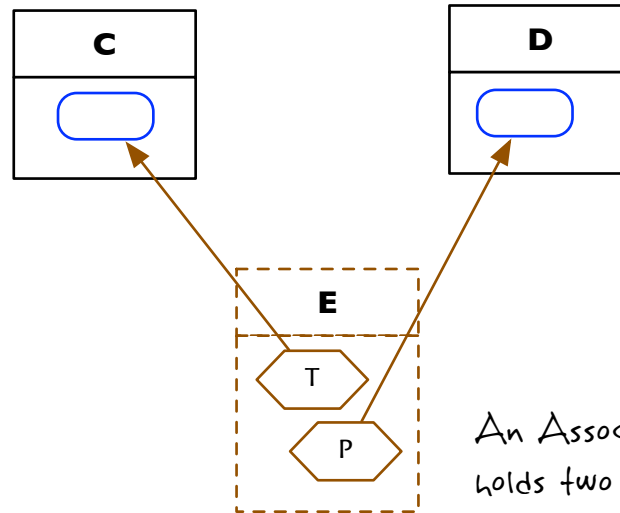
Leon Starr
Sat May 28 2011

This is a repository for graphics pasted into another document.



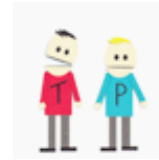
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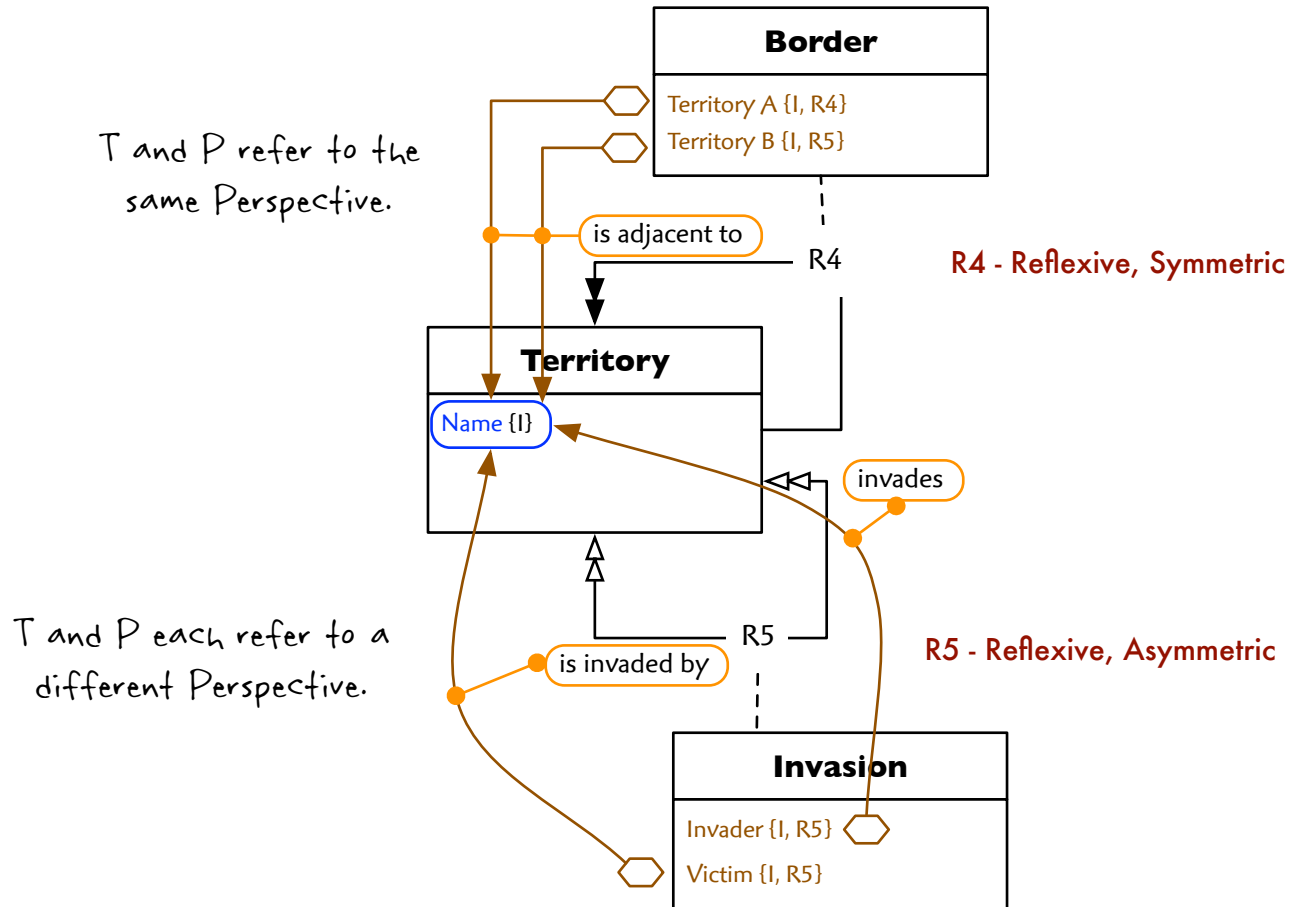


An Association Class always holds two Associative References.

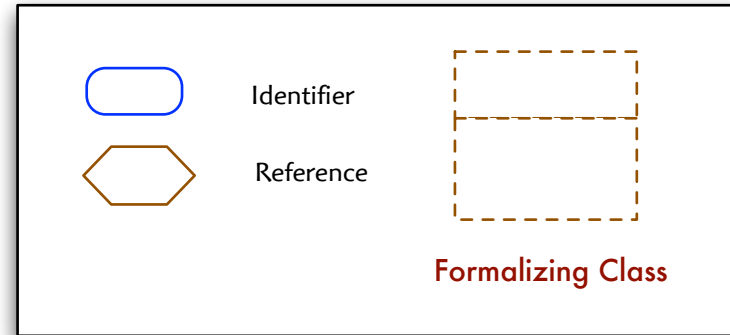
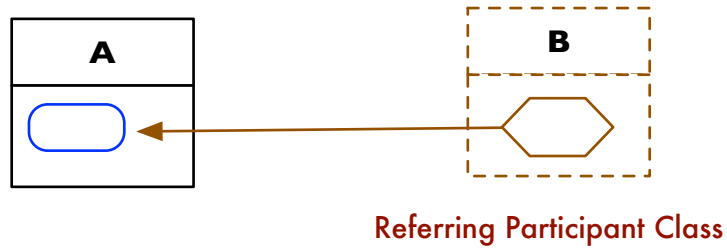
The two References are arbitrarily named T and P.



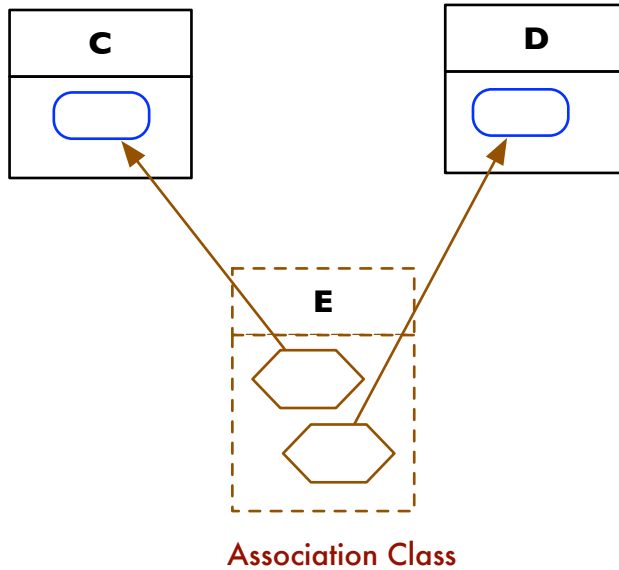
Differing multiplicity for Symmetric vs. Asymmetric Reference Types



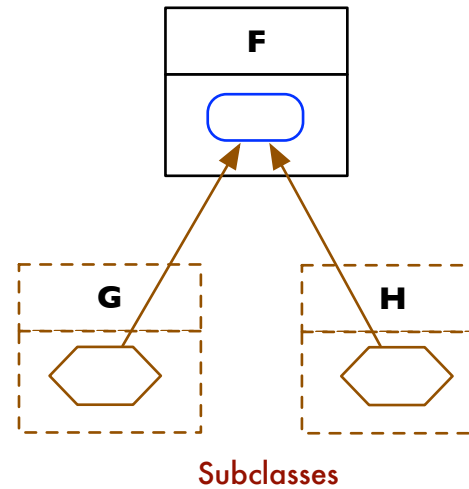
Non Associative Formalization

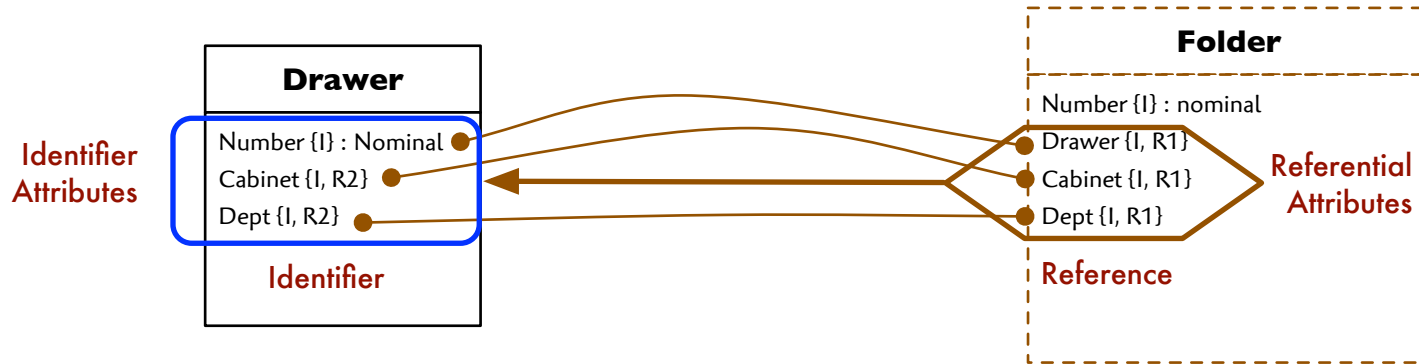


Associative Formalization



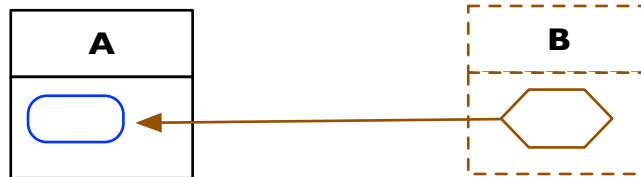
Generalization Formalization





In each of these cases, there is only one Reference per Reference Path.

R1 - Non-associative



Reference Paths

R1:A->B

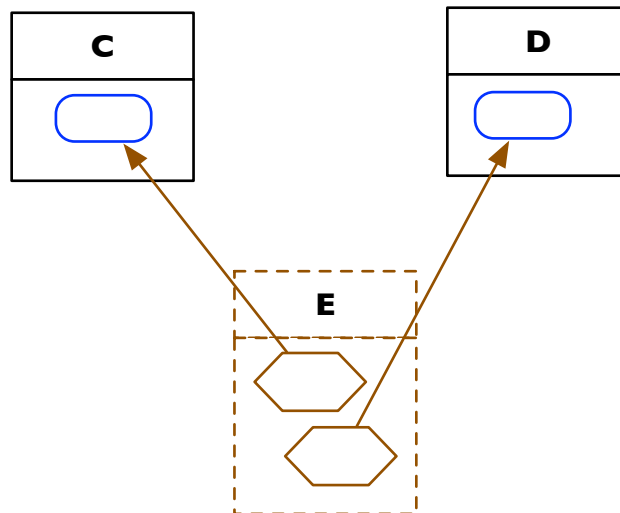
R2:E->C

R2:E->D

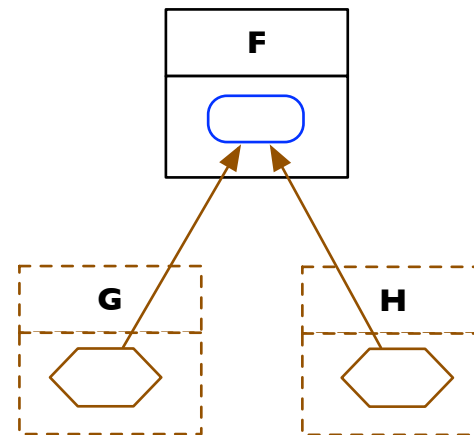
R3:G->F

R3:H->F

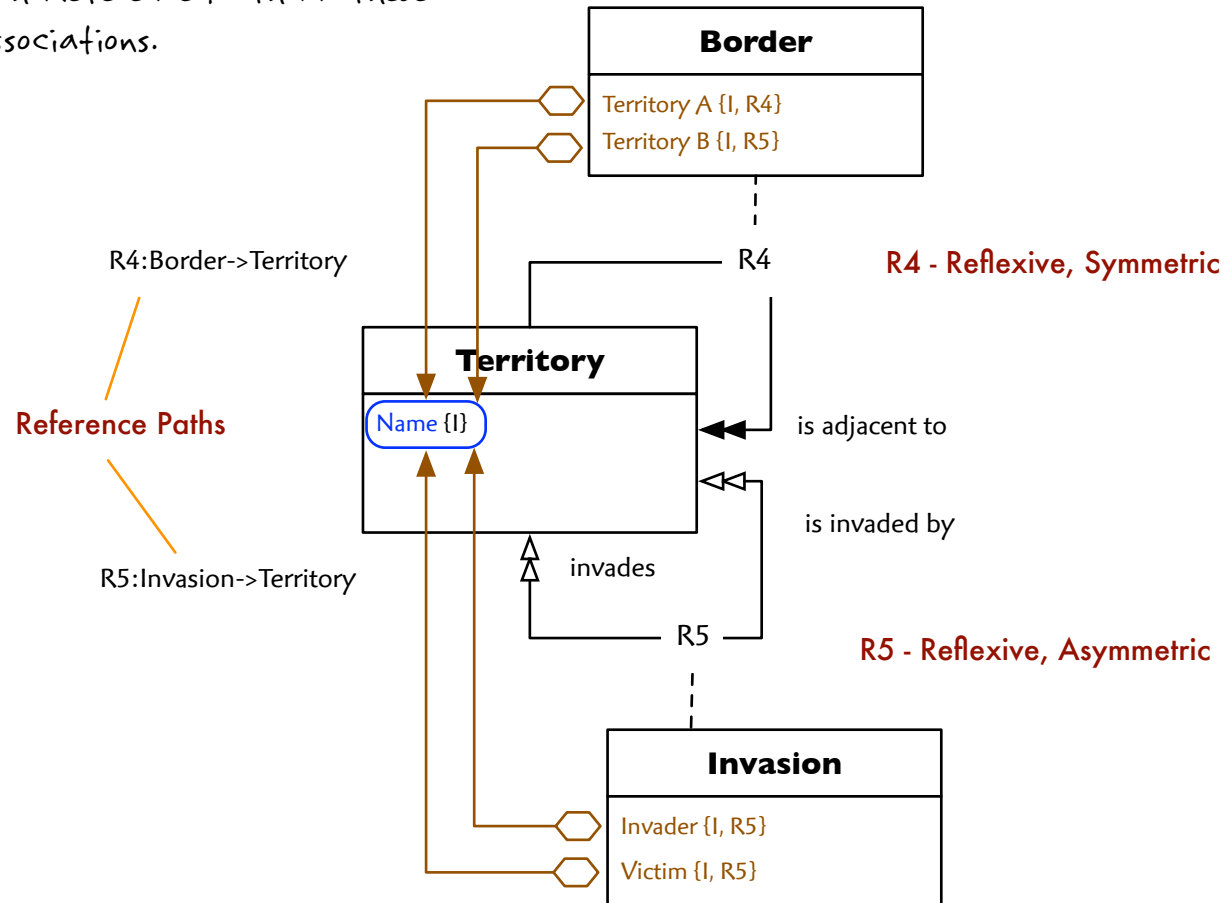
R2 - Associative

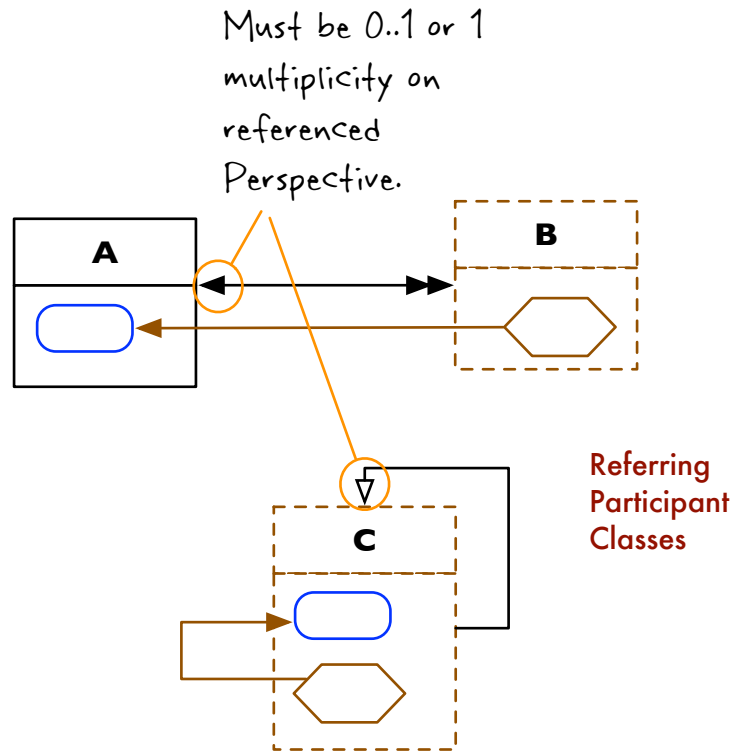


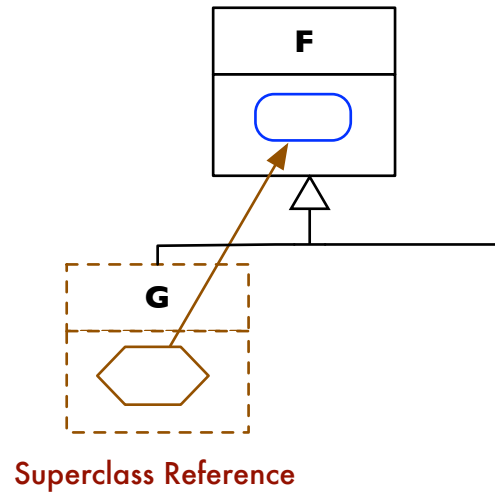
R3 - Generalization

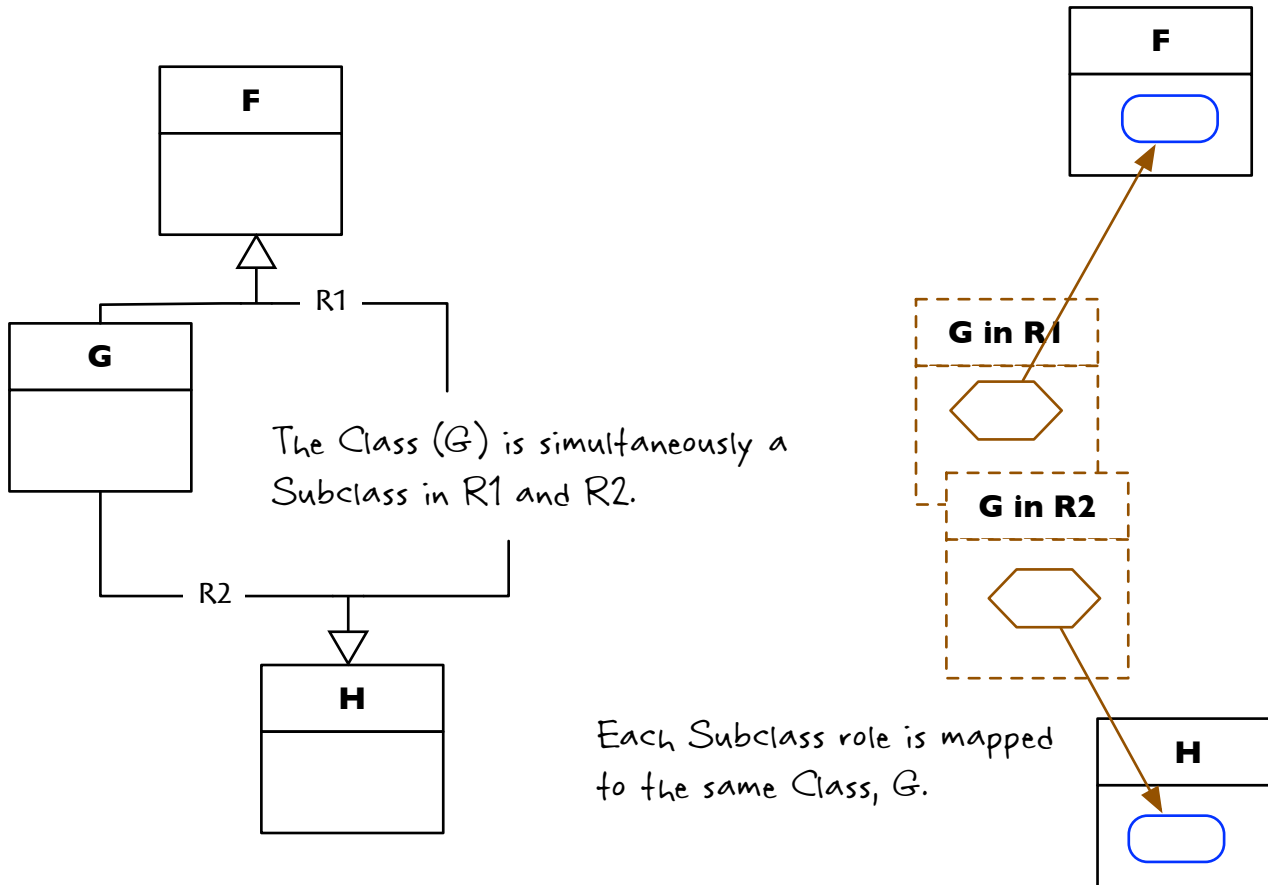


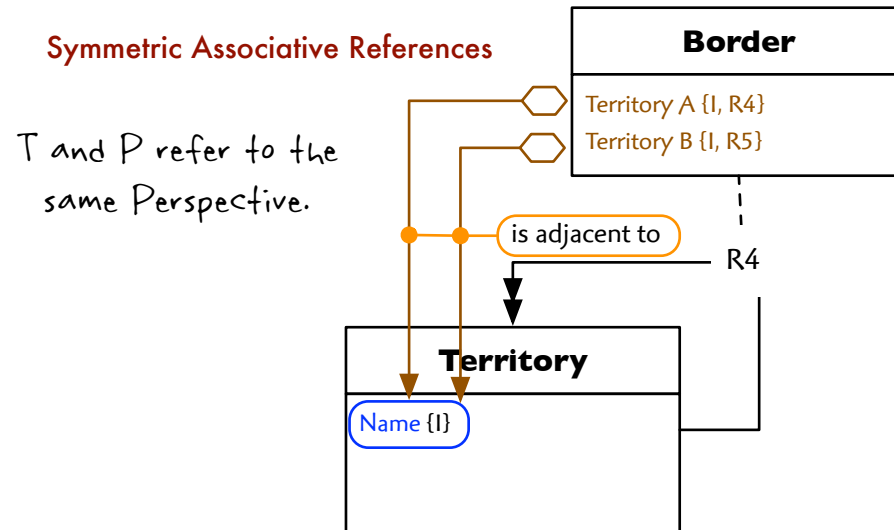
Two Associative References follow
each Reference Path in these
Associations.



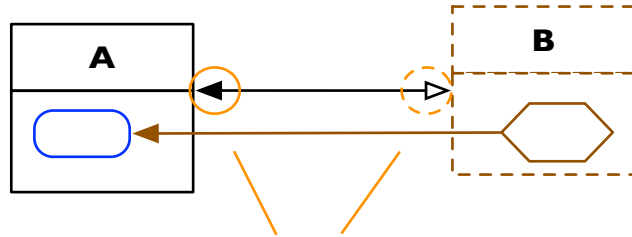




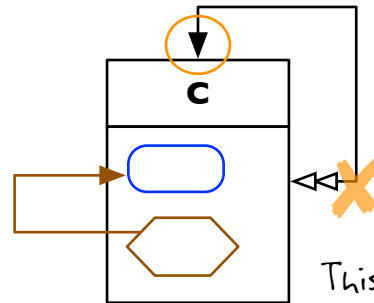




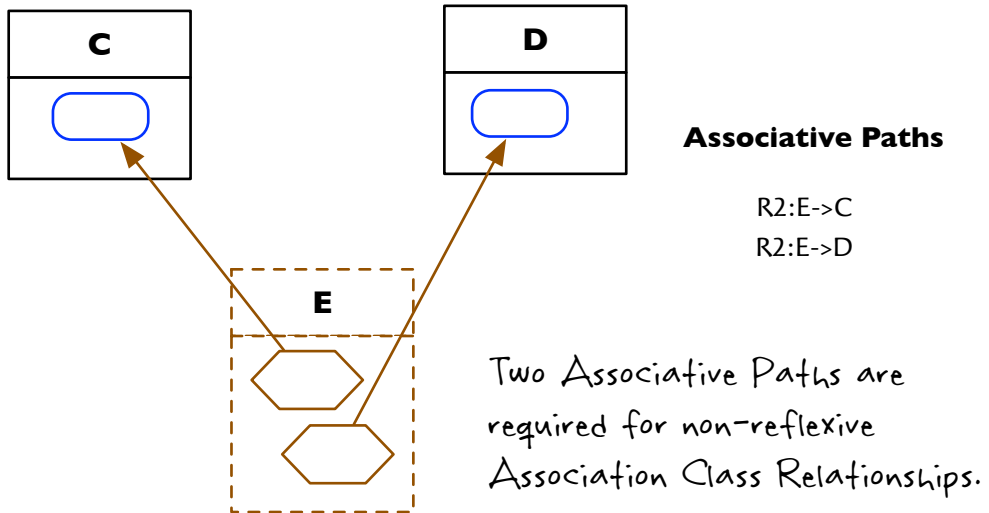
Legal To One References



Either Perspective may be referenced by a To One Reference since neither is $M \times (0..^* \text{ or } 1..^*)$, though 1 is preferred over $0..1$.



This Perspective is 0..*, so it may not be referenced by a To One Reference.

R2 - Non-reflexive

R4 - Reflexive, Symmetric
R5 - Reflexive, Asymmetric

Only One Associative Path is required for a reflexive Association since there is only one participating Class on the Association.

