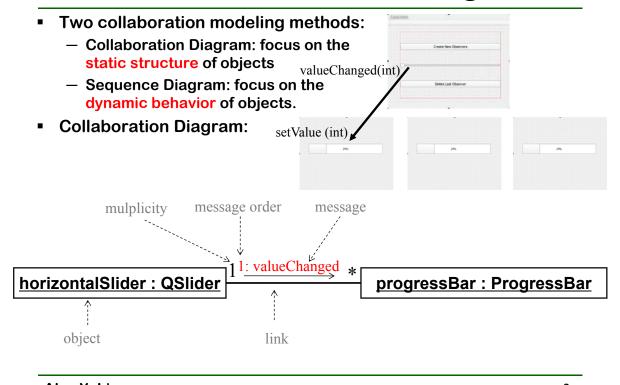
Modeling Collaboration

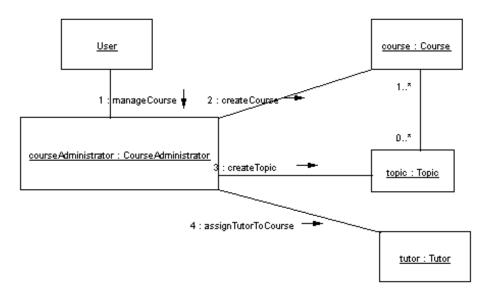
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Collaboration Modeling



Another Collaboration Diagram Example

Collaboration diagram

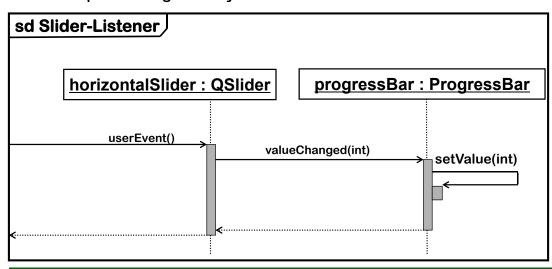


Collaboration diagram for the "Manage course information" flow

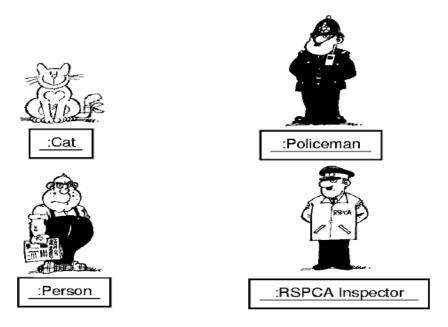
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Sequence Diagram

- Sequence Diagrams illustrate one collaboration instance
 - Use of spatial position to reflect time dimension
 - Use of vertical bars to denote object "activity"
 - Graphic denotation of returns from operations
- One sequence diagram may not be sufficient to document a collaboration.

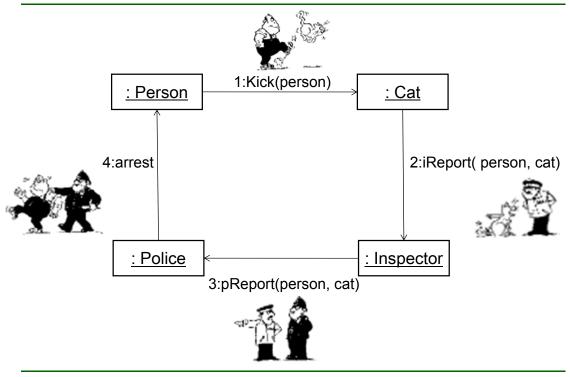


Sequence and Collaboration Diagrams for the Same Collaboration

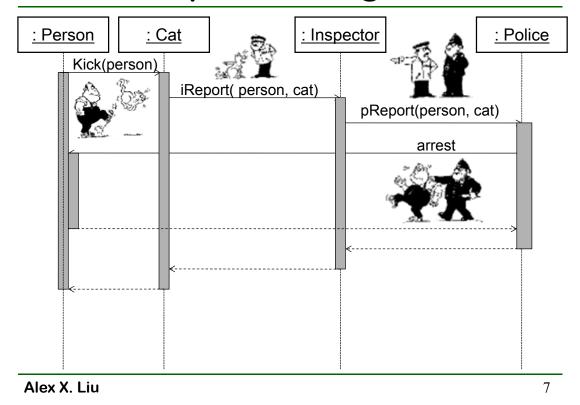


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Collaboration Diagram



Sequence Diagram



Collaboration Diagrams and Sequence Diagrams

- Collaboration Diagram:
 - Order of interactions is implemented by ordering
- Sequence Diagram:
 - Order of interactions is implemented by vertical positioning
- A collaboration is typically specified using:
 - One collaboration diagram, naming all of the roles, relevant multiplicities, links, and a sequence of messages.
 - Multiple sequence diagrams, each describing a key collaboration behavior among the objects.
- Other diagrams learned: Class Diagrams and Object Diagrams
 - Class diagram: document the design of classes and the static relationship among classes
 - Object diagram: document the snapshot of multiple objects and the relationship among objects at that moment.