Dynamic Models  activity diagrams  statechart diagrams interaction diagrams - sequence diagrams - collaboration diagrams diagrams  use case diagrams  deployment diagrams deployment diagrams	
Structural Family: Object Diagram  def'n: shows a set of objects and their relationships at a point in time  model instances of things contained in class diagram  static frame of dynamic storyboard represented by interaction diagram  abstraction:instance as 1:many	
Object Diagram  Contents of Object Diagram  objects: instance of a class links: relationship between objects Convention rectangle	

## **Object Naming** - unique instance name:abstraction name - unique instance name :package name::abstraction name - name is underlined ■ anonymous: no unique instance name (e.g., :Frame) orphan: no abstraction name (e.g., agent:) sometimes, just a simple name is appropriate if the class is obvious in the given context for simplicity, always name instance, class, and package (if package exists) Common Modeling Techniques freeze a running system, set of objects, each in a specific state, each in a particular relationship to other objects especially useful for modeling complex data structures cannot completely specify the object structure of a system To Model Identify mechanism to model ■ Identify classes, interfaces, other elements and identify relationships Consider a scenario and freeze at a moment in time Expose state and attribute values ■ Expose links, representing instances of associations

## To Reverse Engineer Choose target system Stop execution at a moment in time (perhaps from a scenario) Identify interesting behavior in freeze-frame Expose states, links, attributes values Hints and Tips Focus on one aspect of static view Remember, that one frame of a dynamic storyboard is represented Ensure that object diagram is minimalist. That is, it contains only relevant information