UML Diagram Types Behavioral Models Structural Models ■ class diagrams activity diagrams statechart diagrams ■ object diagrams ■ interaction diagrams packages sequence diagrams Architectural Models collaboration ■ component diagrams diagrams deployment diagrams use case 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 ■ looks like class ■ however, - class name is underlined - attributes/operations display show instance of

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 freezeframe ■ 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