Dynamic Models  activity diagrams  statechart diagrams interaction diagrams - sequence diagrams - collaboration diagrams use case diagrams  use case diagrams  deployment diagrams	
Class  def'n: set of objects that share same attributes, operations, relationships, and semantics  alt def'n: abstraction of thing that is part of vocabulary  Convention  rectangle with several compartments simple (name) or path name (package:name) noun or noun phrase with 1st letter of each noun capitalized (TempSensor)	
Responsibility  def'n: contract or obligation of class  textual description of what class is/does  each class should have 1 < resp <= 4  Convention  free form text  phrase, sentence, or short paragraph	

## Distribution of Responsibilities balanced set of responsibilities (don't make one class too big or small) • identify a set of classes that work together closely to carry out some behavior • identify a set of responsibilities for each of these classes • look at this set of classes as a whole, split classes that have too many responsibilities into smaller ones, and reallocate so that each abstraction reasonably stands on its own • consider the ways in which classes collaborate with one another and redistribute accordingly Attribute def'n: named property that describes a range of values that instances of a property may hold class may have any number of attributes Convention noun or noun phrase capitalize 1st letter of each noun except first (loadBearing) Operation def'n: implementation of a service that can be requested from any object of the class to affect behavior class may have any number of op's Convention verb or verb phrase capitalize 1st letter of each noun except first (op1())

## Attributes and Operations Don't need to show all attributes and operations Only show those relevant to current view (at the proper level of abstraction) Empty compartments does not mean 0 att or ops, only that choose not to show Hints and Tips A well structured class provides a crisp abstraction of something drawn from vocabulary of problem domain embodies a small, well-defined set of responsibilities provides a clear separation of abstraction's specification and its implementation is understandable and simple yet

extensible and adaptable