

Slide 1

Why Model? • Large and complex systems are difficult for humans to understand. • Abstracting out key features ("modeling") and representing pictorially helps.

Slide 2



What You (Probably) Already Know About UML
In PAD II we use UML "class diagrams" to show things about the classes in a Java program:
For each class, its name, attributes (variables), and behavior (methods).
Inheritance relationships among classes.
Associations between classes — e.g., a ShoppingList class might have an array of ItemAndPrice objects.
Can become complex, but usually useful in visualizing overall structure of program design.

Slide 4



Slide 5

Slide 6

Use Cases, My (First) Two Cents' Worth My first reaction — "pointless and confusing". But with repeated exposure, they're starting to look more sensible. One articles I found on the Web describes use cases as "stories about how the system is supposed to work." Other sources say use cases are as much about writing prose (in a somewhat structured format) as about diagrams. Several of them mention that different formats have been proposed, and there's not one right way, but you should do whatever seems to work.



Use Cases, My (Second) Two Cents' Worth

- First step in designing something figure out / decide what it's supposed to do.
- Use cases can help with that.

Slide 8