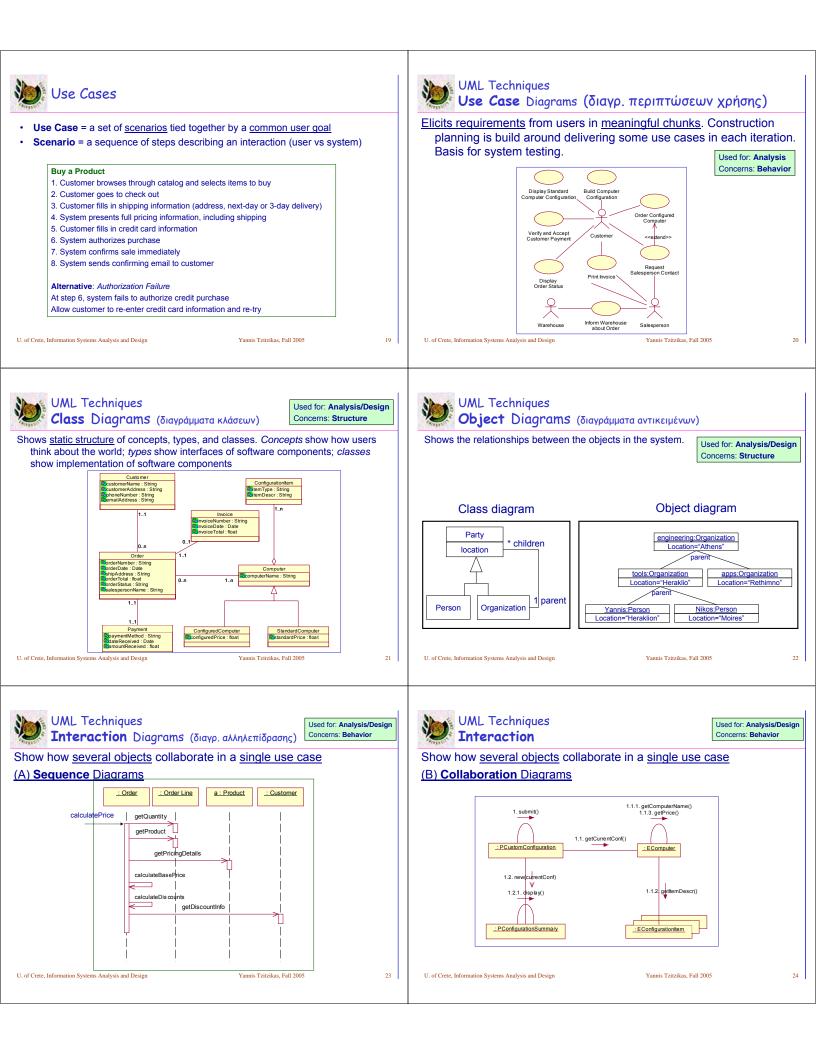
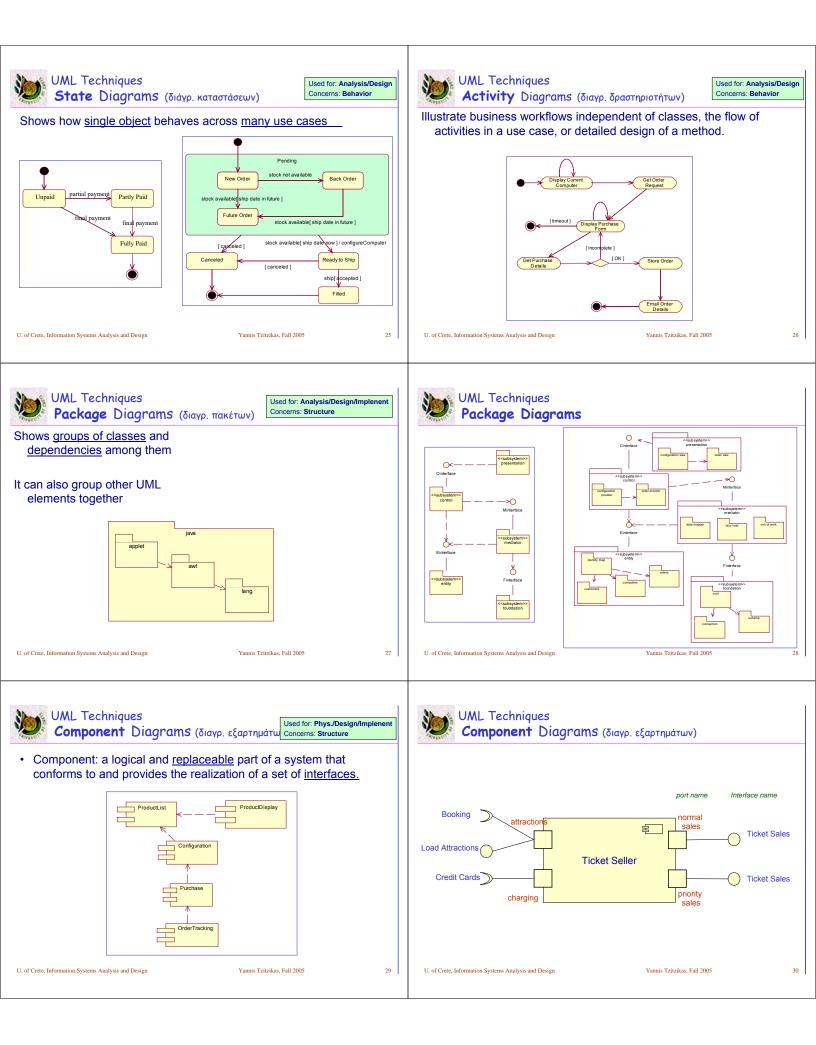
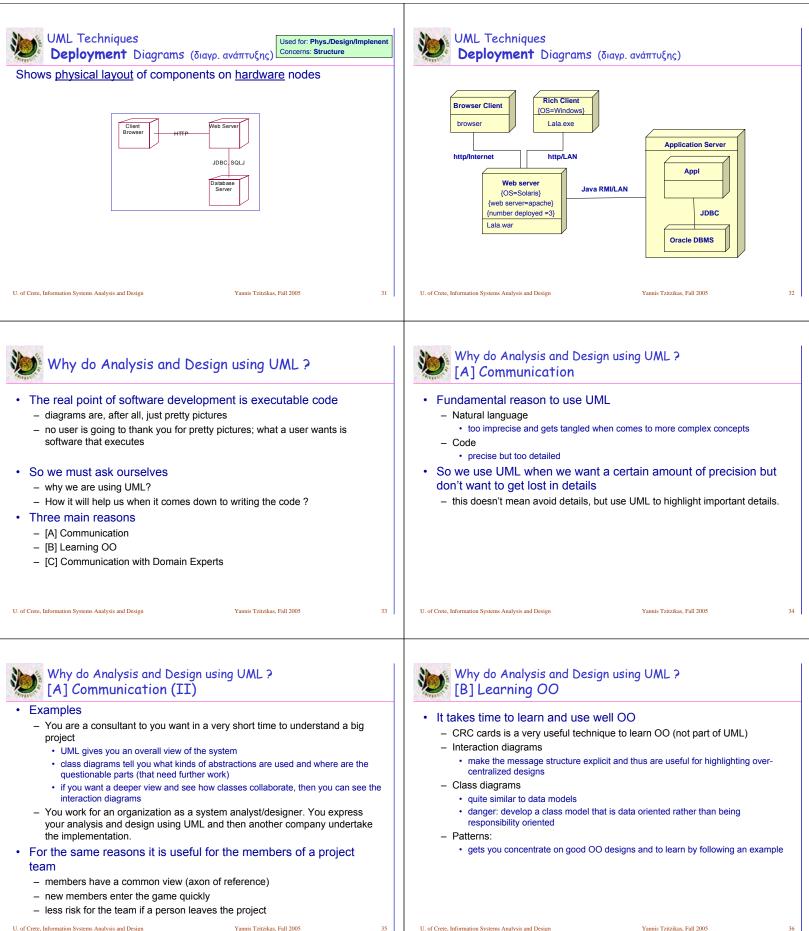
ΗΥ 351: Ανάλυση και Σχεδίαση Πληροφοριακών Συστημάτων CS 351: Information Systems Analysis and Design	• Successor to the wave of object-oriented analysis and design (OOA&D) methods that appeared in the late '80s and early '90s.
UML: Introduction and Overview	
	Unifies the methods of
How UML came up?	– Booch
Overview of the UML Techniques and their uses Why do analysis and design using UML ?	<ul> <li>Rumbaugh (OMT)</li> <li>Jacobson</li> </ul>
Hello World! in UML	Now it is an OMG (Object Management Group) standard
Lecture : 3b Date : 4-10-2005 University of Crete, Fall 2005	U. of Crete, Information Systems Analysis and Design Yannis Tzitzikas, Fall 2005 2
We got here?	The birth of UML
• 1980: C++	- AND
<ul> <li>Need to adapt the design methods of ('70s-'80s) for the object-oriented world</li> </ul>	<ul> <li>Jim Rumbaugh and G. Booch =&gt; Rational Software</li> </ul>
1989-91 "Recursive Design Approach" (Sally Shlaew, Steve Meller)     D. Good and Ed. Vourden (backs 1994, 1995, 1999)	
<ul> <li>P. Coad and Ed. Yourdon (books 1991, 1991b, 1995,1999)</li> <li>Responsibility-Driven Design (Wirfs-Brock 90)</li> </ul>	<ul> <li>1996: The 3 amigos (James Rumbaugh, Grady Booch, Ivar Jacobson)</li> </ul>
Class-Responsibility-Collaboration (CRC Cards) Beck and Cunnigham	– UML Version 1.1 Became OMG standard
<ul> <li>Grady Booch: work with Rational Software (for Ada systems)</li> <li>Jim Rumbaugh: Object-Modeling Technique (OMT)</li> </ul>	
The most conceptual of these books: Martin and Odell, 94	
Ivar Jacobson (introduced the concept of use cases)	Current version: UML Version 2.0, 2003
<ul> <li>Δεν υπήρχε διάθεση για τυποποίηση (standardization)</li> </ul>	
<ul> <li>Κάθε ένας χρησιμοποιούσε τους δικούς του συμβολισμούς και μεθοδολογία</li> <li>Famous joke:</li> </ul>	
- What is the difference between a methodologist and a terrorist?	
- You can negotiate with a terrorist!	
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The objective of UML	How many UML diagrams exist?
	<ul> <li>UML 2.0 defines 14 diagrammatic techniques used to model a system.</li> </ul>
To provide a <u>common vocabulary</u> of object-oriented terms and	Diagrams for modeling the <u>structure</u> of a system
diagramming techniques that is rich enough to model any systems	- Class, Object, Package, Deployment, Component, Composite Structure
development project from analysis through implementation	Diagrams for modeling the behavior of a system
	<ul> <li>Diagrams for modeling the <u>behavior</u> of a system         <ul> <li>Activity, Sequence, Communication, Interaction Overview, Timing, State, Protocol State Machine, Use Case Diagrams</li> </ul> </li> </ul>
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