

Component and Deployment Diagrams

Both are implementation-type diagrams

Component diagrams

- Modern software development proceeds via components (e.g. Table, data file, executable, DLL, document etc) which is particularly important in team-based development efforts.

Component diagrams

- Why do you model components:
 - Clients can see the structure of the finished system
 - Developers have a structure to work toward
 - Technical writers who have to provide documentation and help files can understand what they are writing about
 - You are ready for reuse

Component diagrams

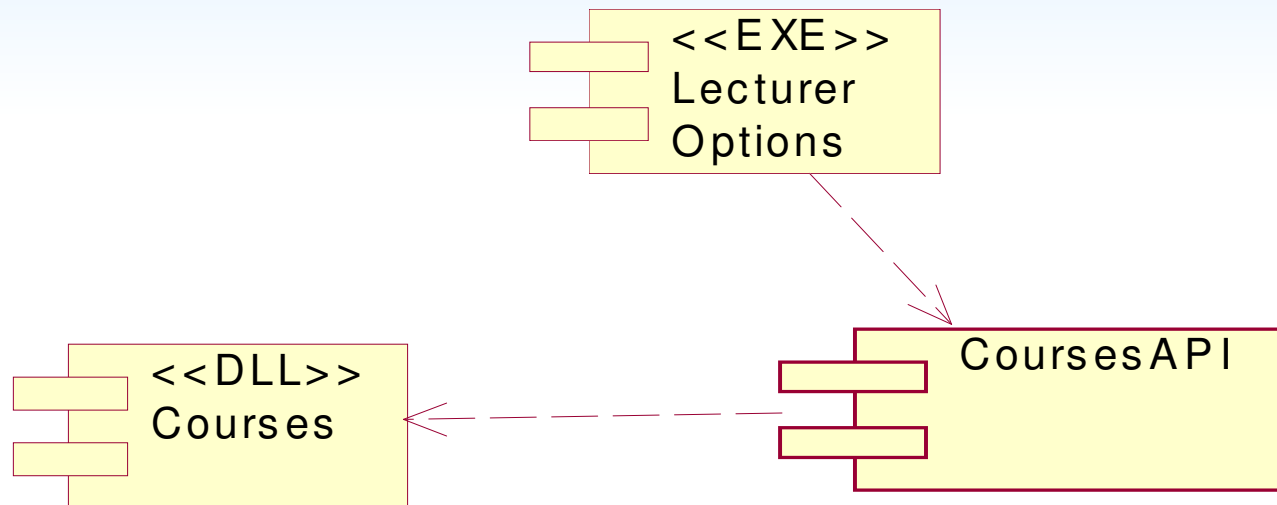
- An Implementation-type diagram that is used to show the physical architecture of the software of the system.

Component diagrams

- Component Diagrams contain mainly *components*, *interfaces* and *relationships*.
- Components are related via dependency relationships.
- Run time components show the mapping of classes to run time libraries such as:
 - Java applets
 - Active-X components
 - DLLs

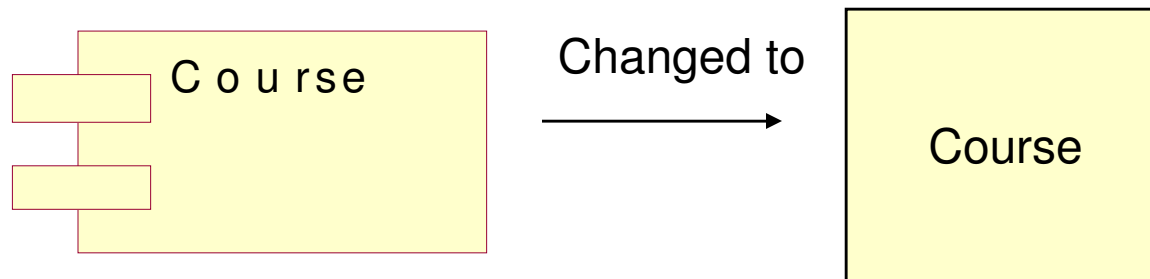
Component diagram

UML 1.x



Component diagrams

- Component symbol in UML 2.0 is different.



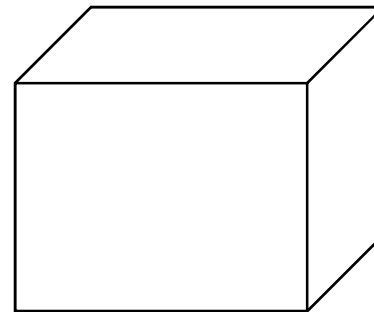
Deployment diagrams

- An implementation type diagram that describe the physical architecture of the hardware and software in the system.
- It can show
 - the computers and devices,
 - their connections with one another
 - the software that sits on each machine

Deployment diagrams

- Used for distributed systems only.
- The main hardware item is a *node*, a generic name for any kind of computing resource.

UML node icon



Deployment diagrams

