

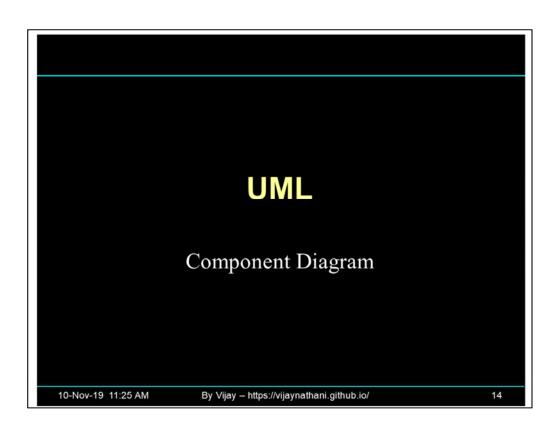
Guideline

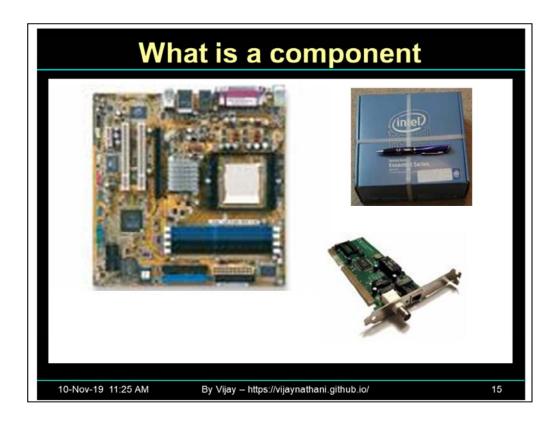
- A package should not have more than 10 files
 - Spring 2.5 framework has 185 packages. Total classes (including interfaces) are 2086.
 - Hibernate 3.2 has 79 packages. Total classes is 1344.
 - Java 6.0 (rt.jar) has 726 packages. Total classes is 15845

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Components are not a technology.

Technology people seem to find this hard to understand.

Components are about how customers want to relate to software.

They want to be able to buy their software a piece at a time, and to be able to upgrade it just like they can upgrade their stereo.

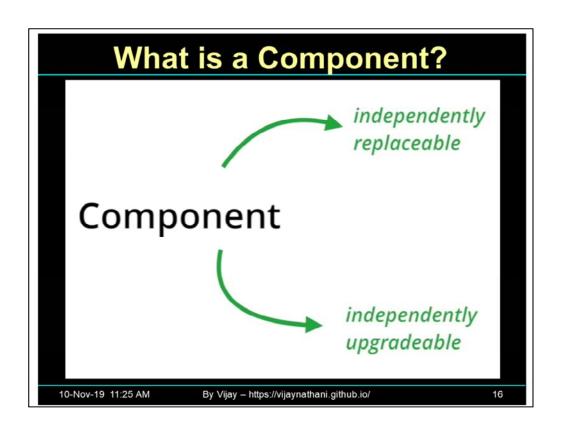
They want new pieces to work seamlessly with their old pieces, and to be able to upgrade on their own schedule, not the manufacturer's schedule.

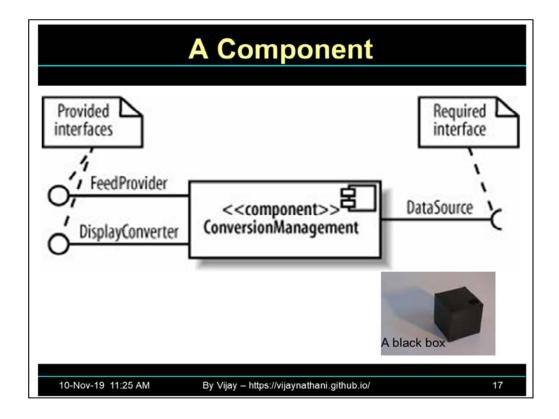
They want to be able to mix and match pieces from various manufacturers.

This is a very reasonable requirement. It is just hard to satisfy.

Components / Modules are collection of packages. High cohesion within module. Low coupling with other modules. Modules are a conceptual unit, source management and deployment unit. Every module should have a distinctive role in a large system.

Each layer can have multiple modules. Higher layers depend upon the lower layers and not the other way around.





Components usually have a façade. Expose one or more packages only.

Backward compatibility and architectural quality need not be separate goals.

Example: How to retain backward binary compatibility, when the library that we are depending upon is changing. Different users can use different versions of library. e.g. Spring can provide support Hibernate, iBatis, Quartz. Each has evolved over time. Users can use these libraries directly.

Spring achieves this by using reflective checks and invocations.

Rule: Things should be as independent as possible.

