

Chapter 16

UML Class Diagrams

Larman, C. “Applying UML and
Patterns”. 3rd Ed.
Ed. Prentice-Hall: 2005.

Fig. 16.1

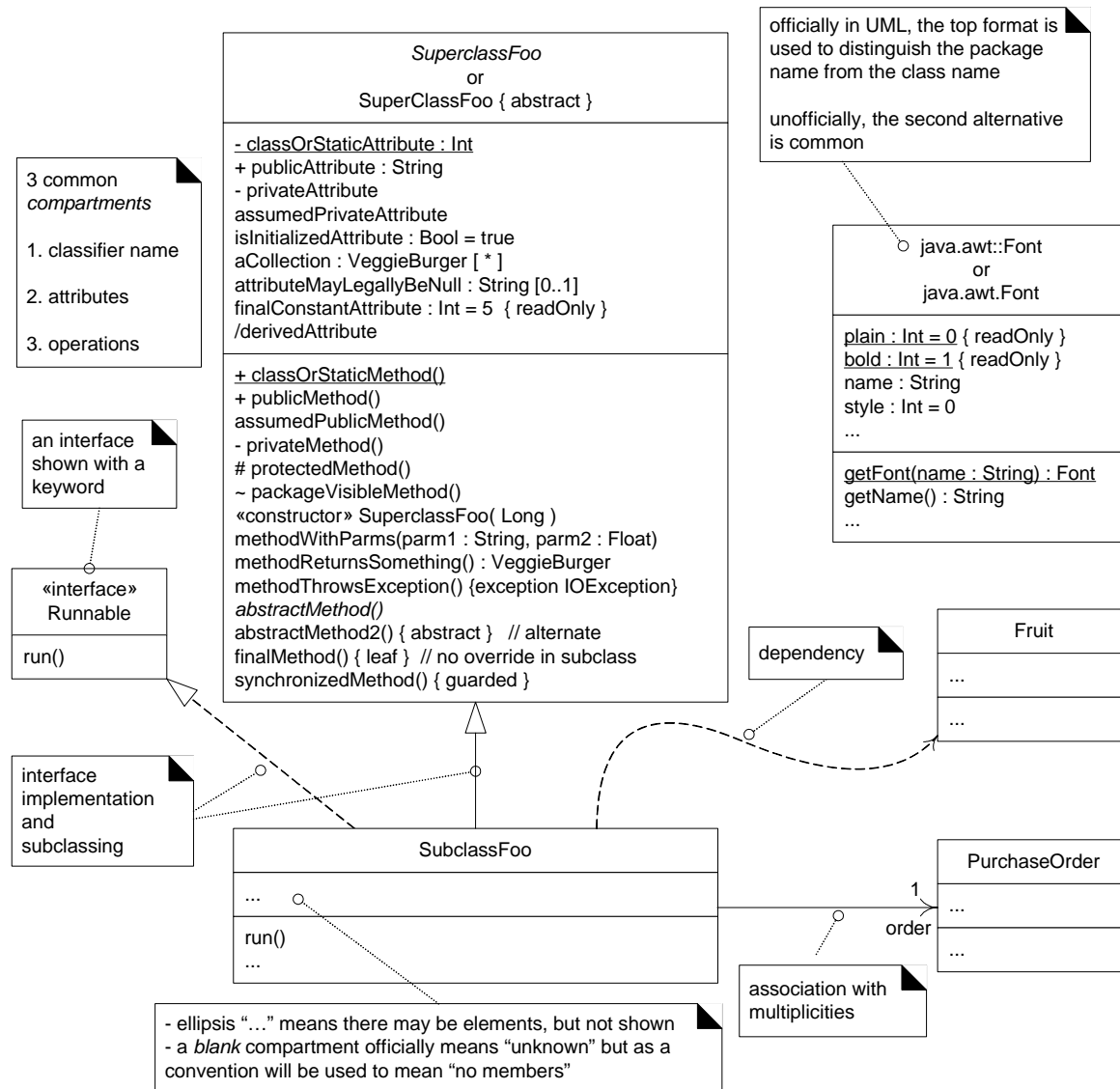


Fig. 16.2

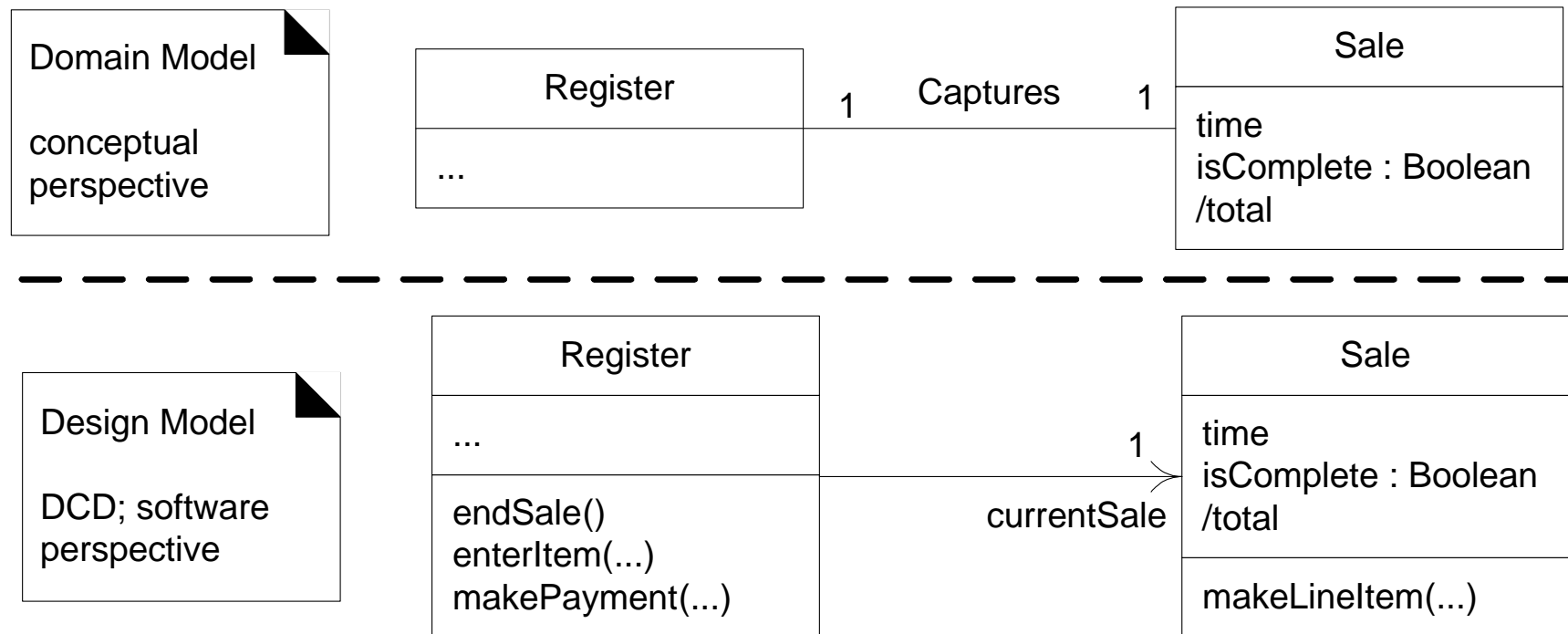


Fig. 16.3

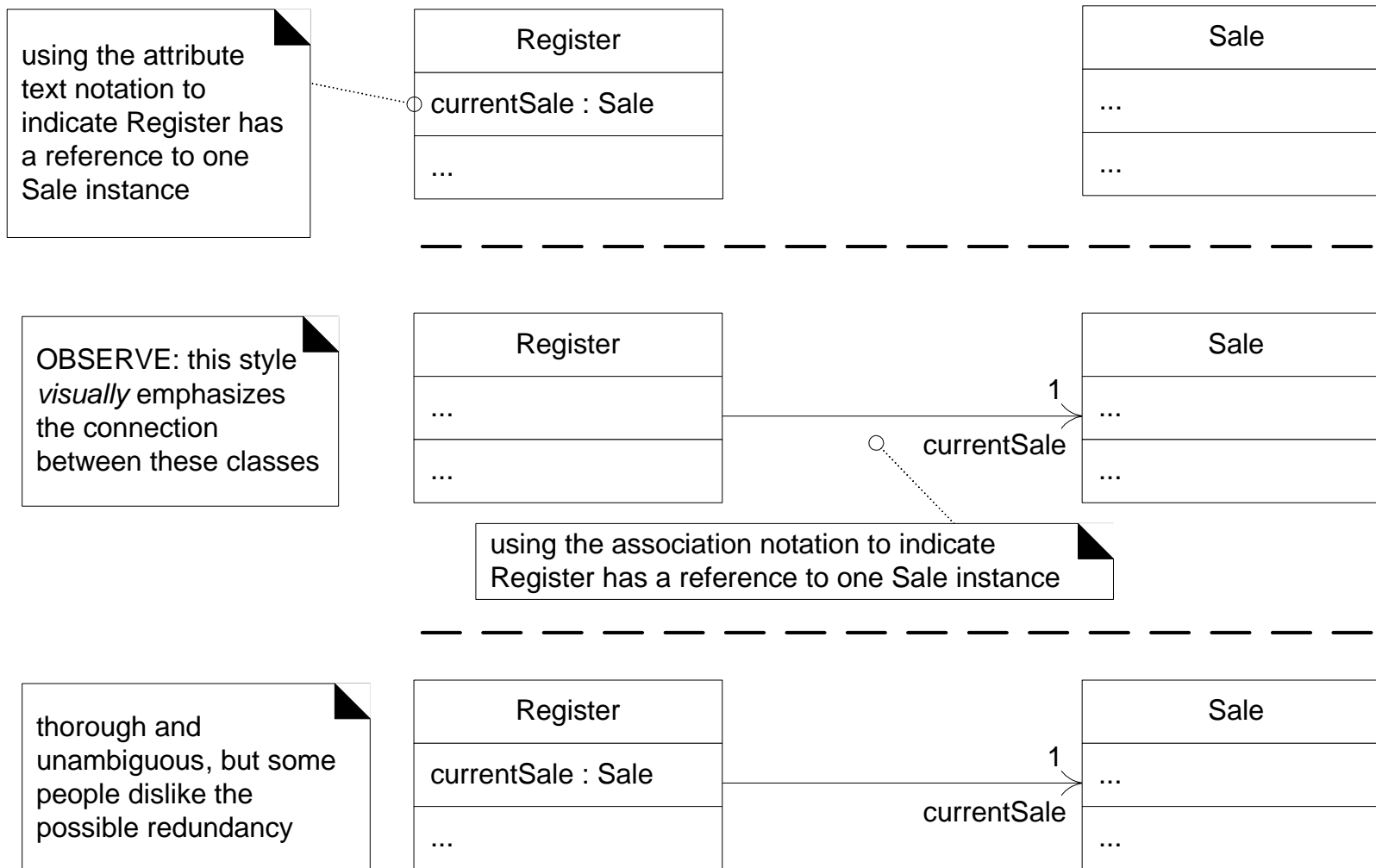


Fig. 16.4

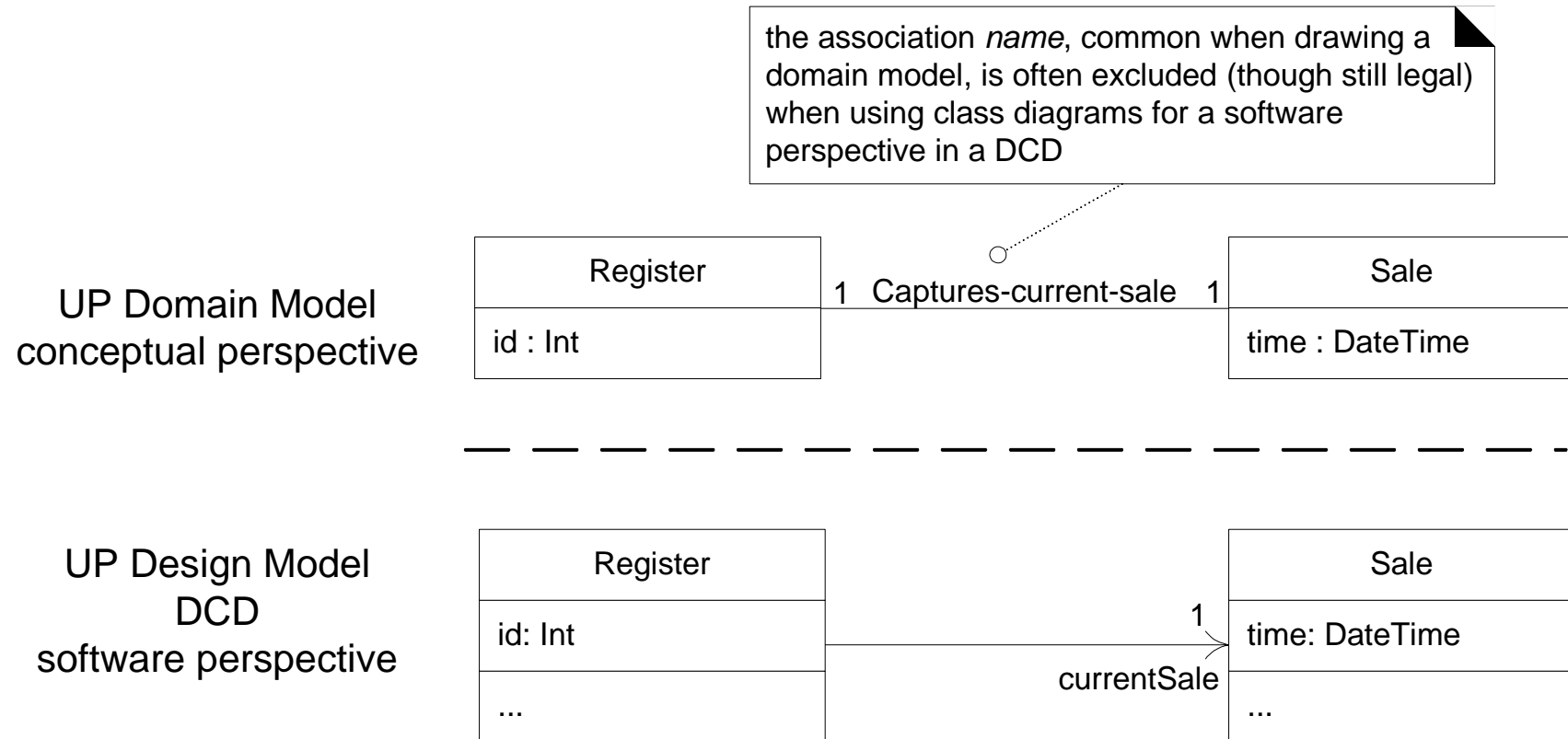


Fig. 16.5

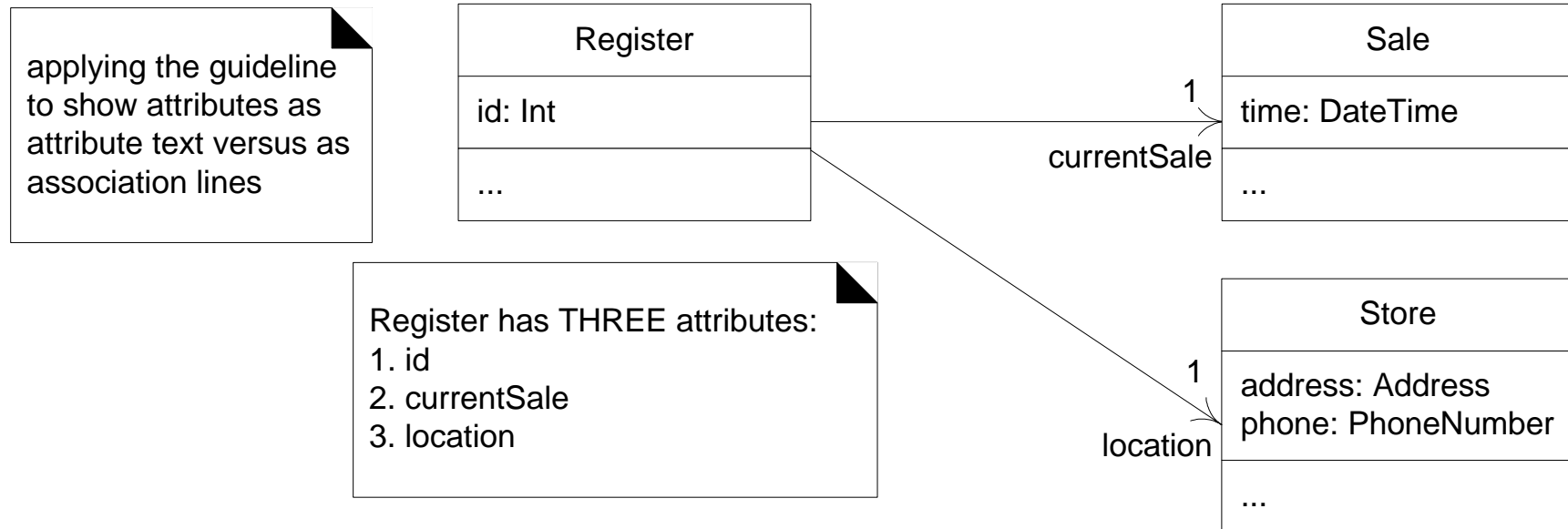


Fig. 16.6

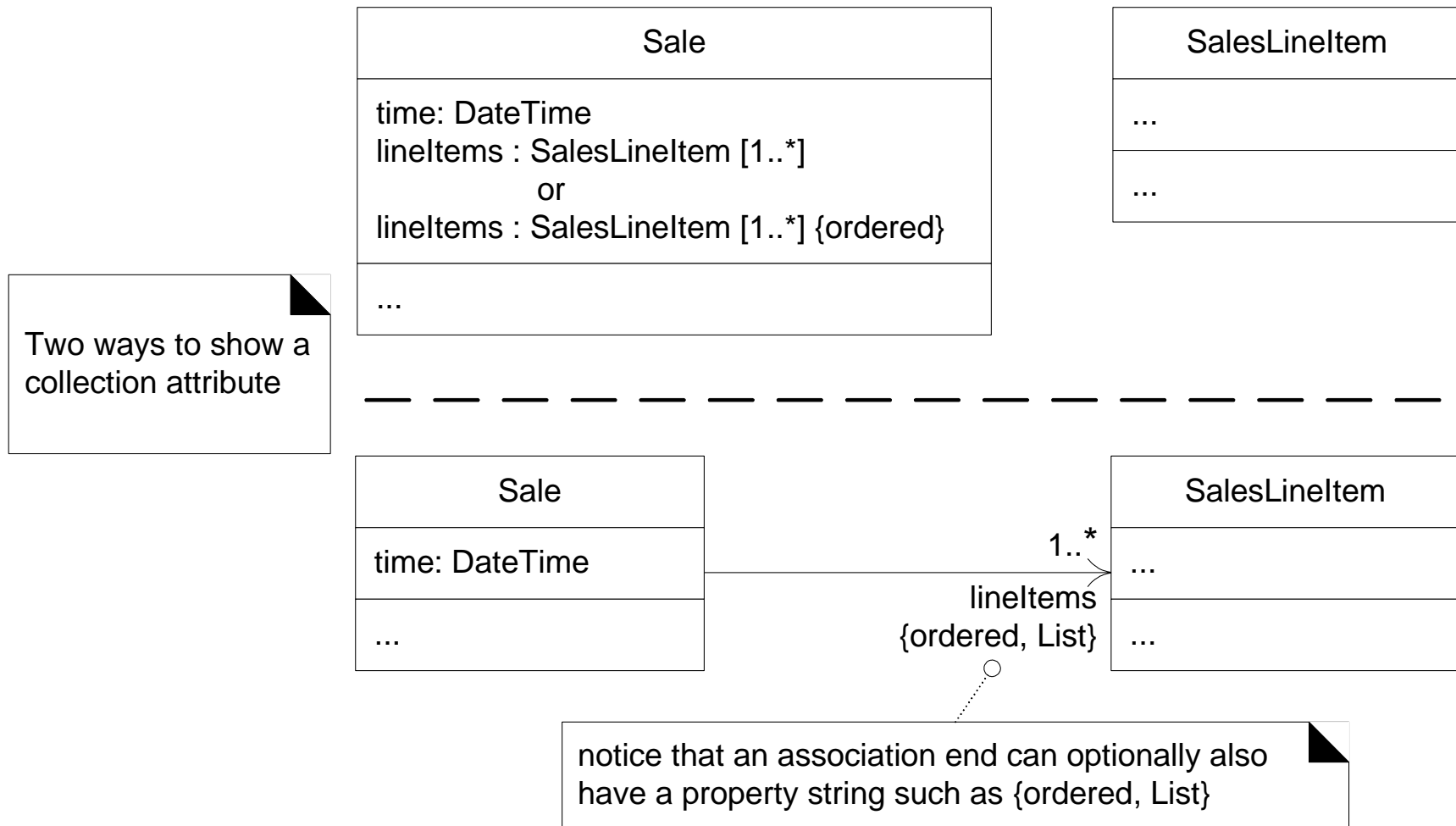


Fig. 16.7

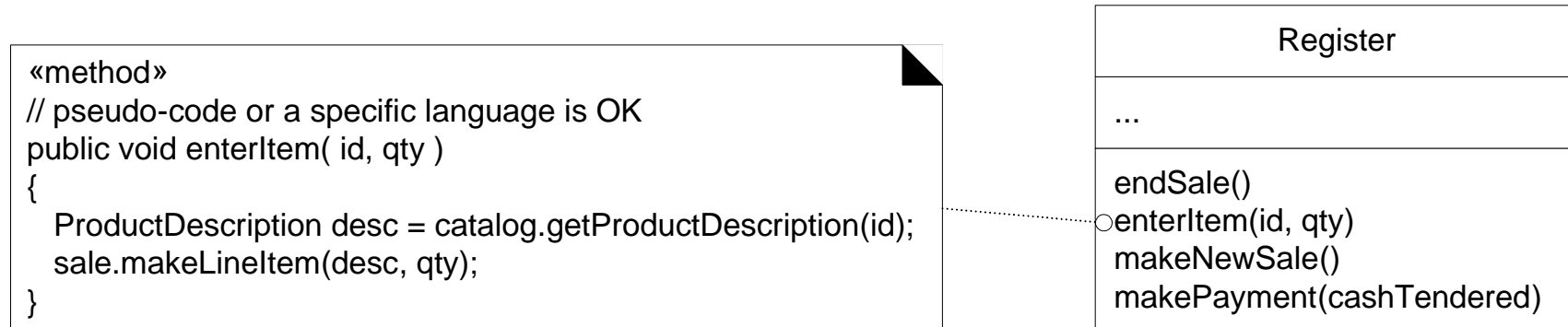


Fig. 16.8

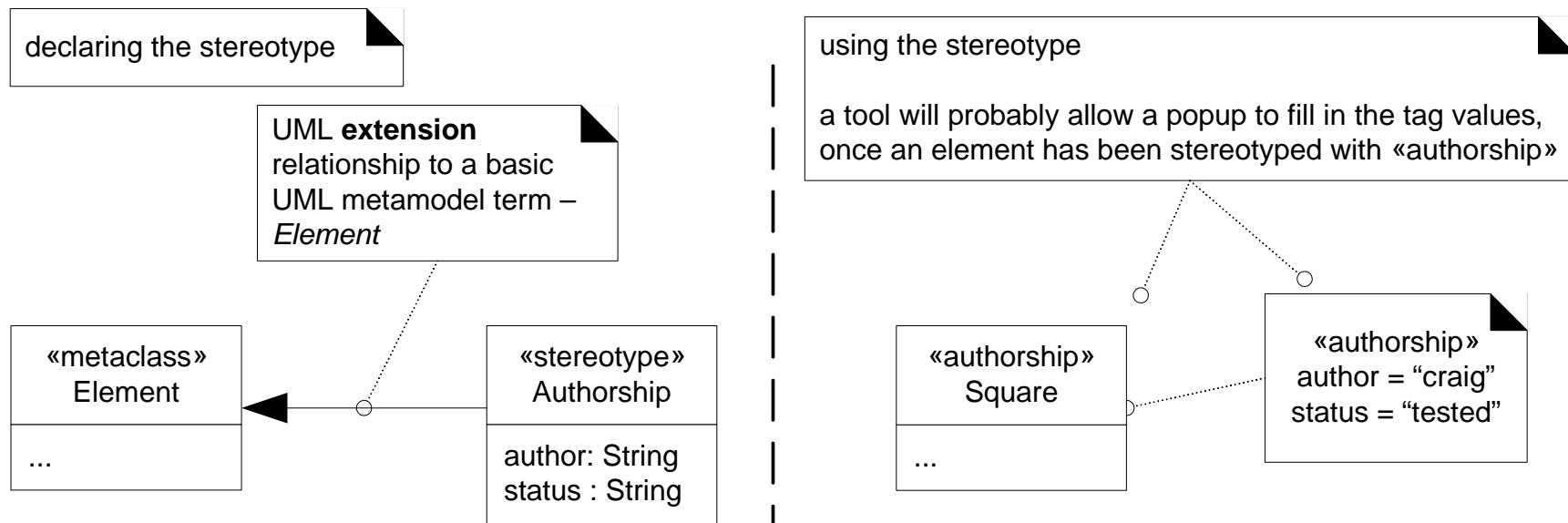


Fig. 16.9

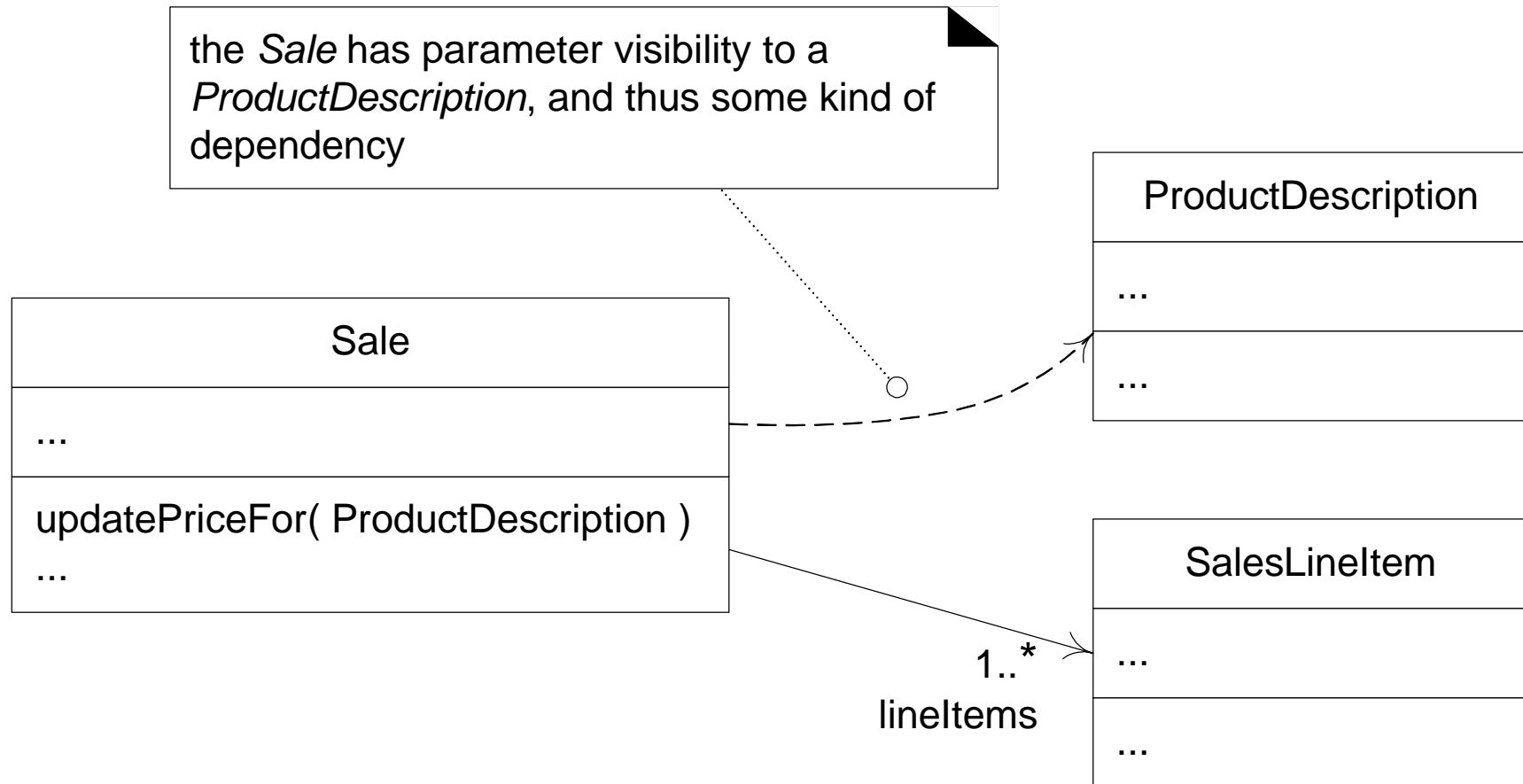


Fig. 16.10

the *doX* method invokes the *runFinalization* static method, and thus has a dependency on the *System* class

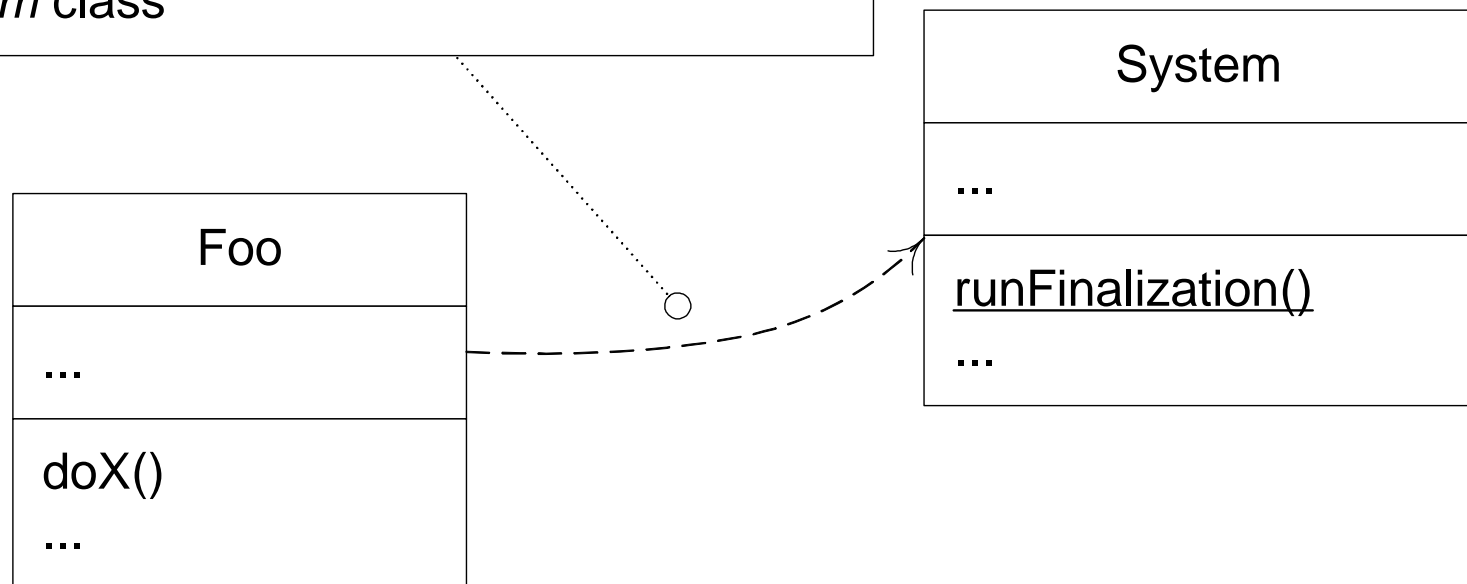


Fig. 16.11

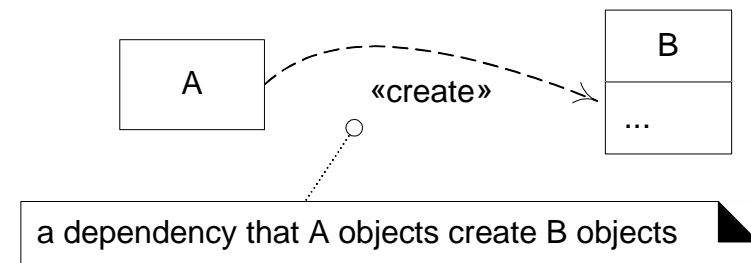
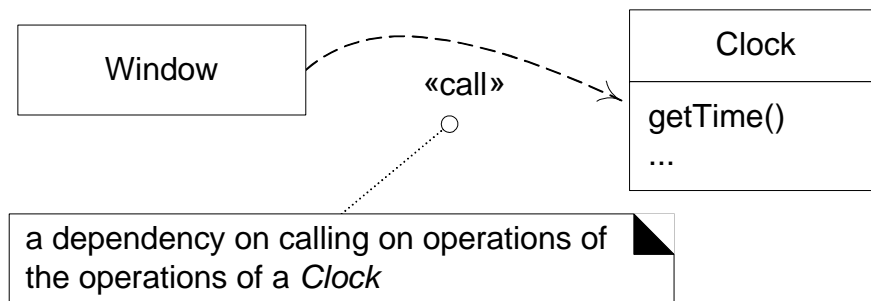


Fig. 16.12

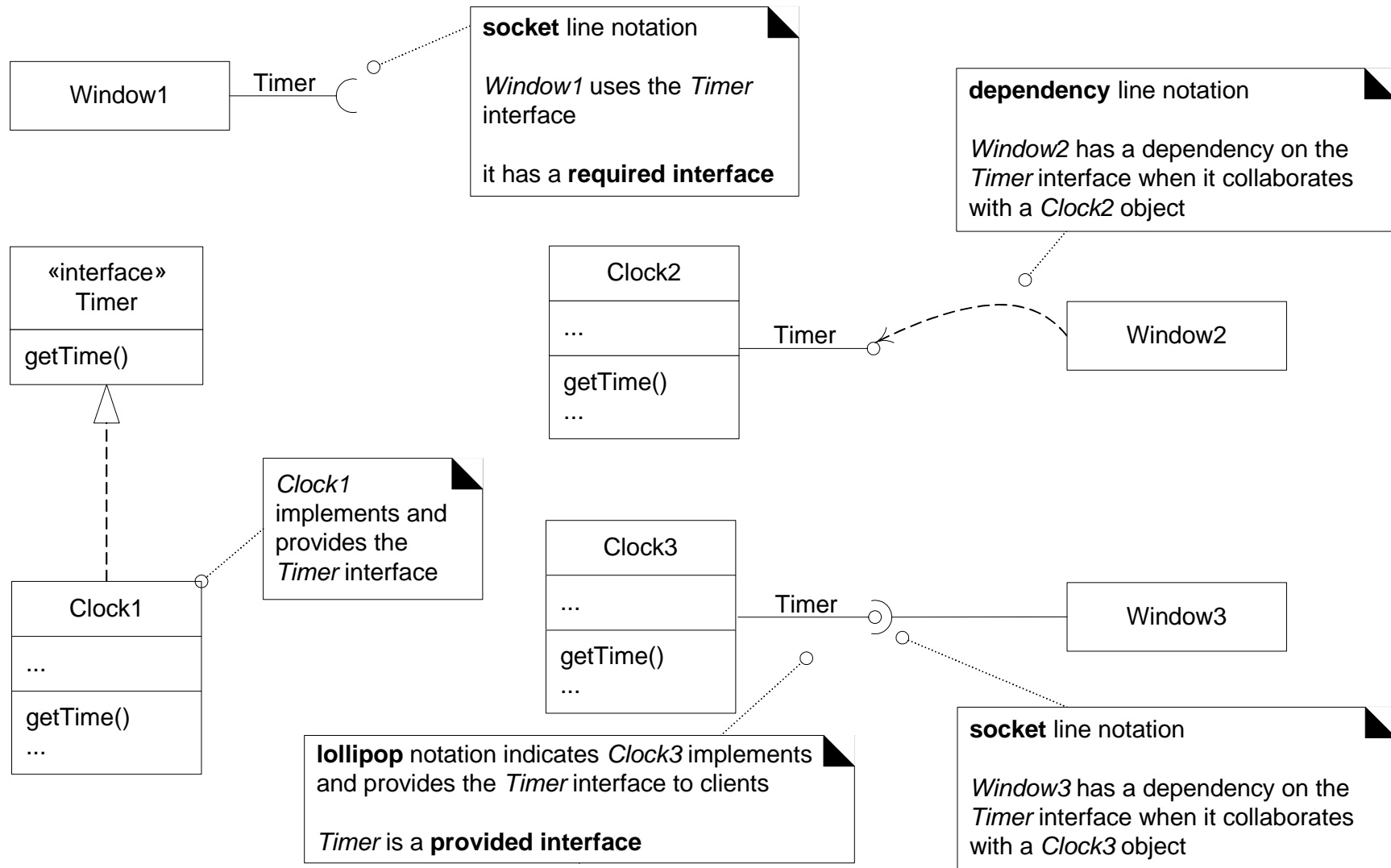
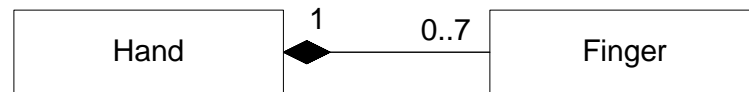


Fig. 16.13



composition



composition means

- a part instance (*Square*) can only be part of one composite (*Board*) at a time

- the composite has sole responsibility for management of its parts, especially creation and deletion

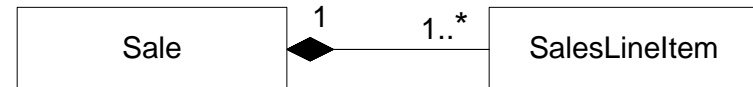


Fig. 16.14

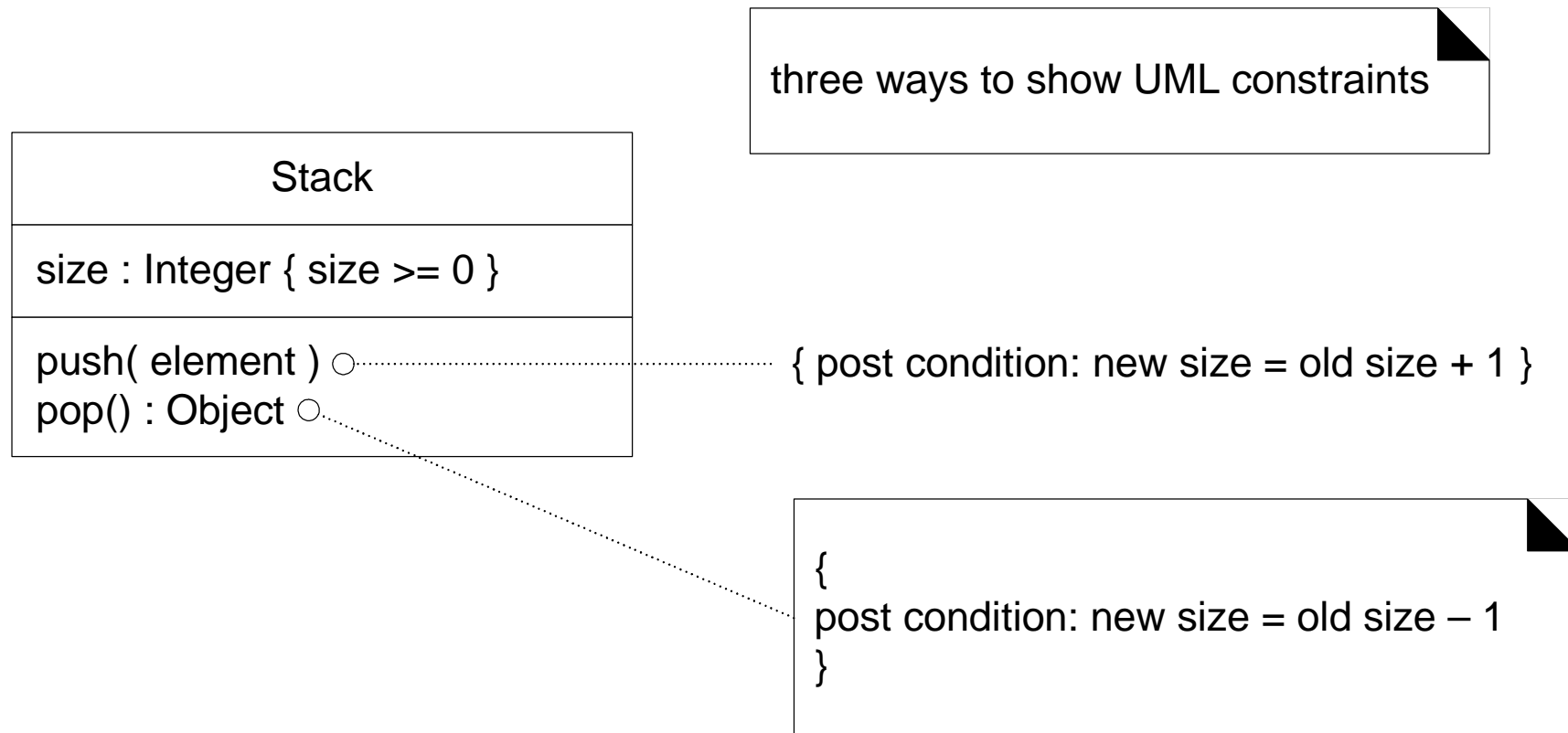


Fig. 16.15

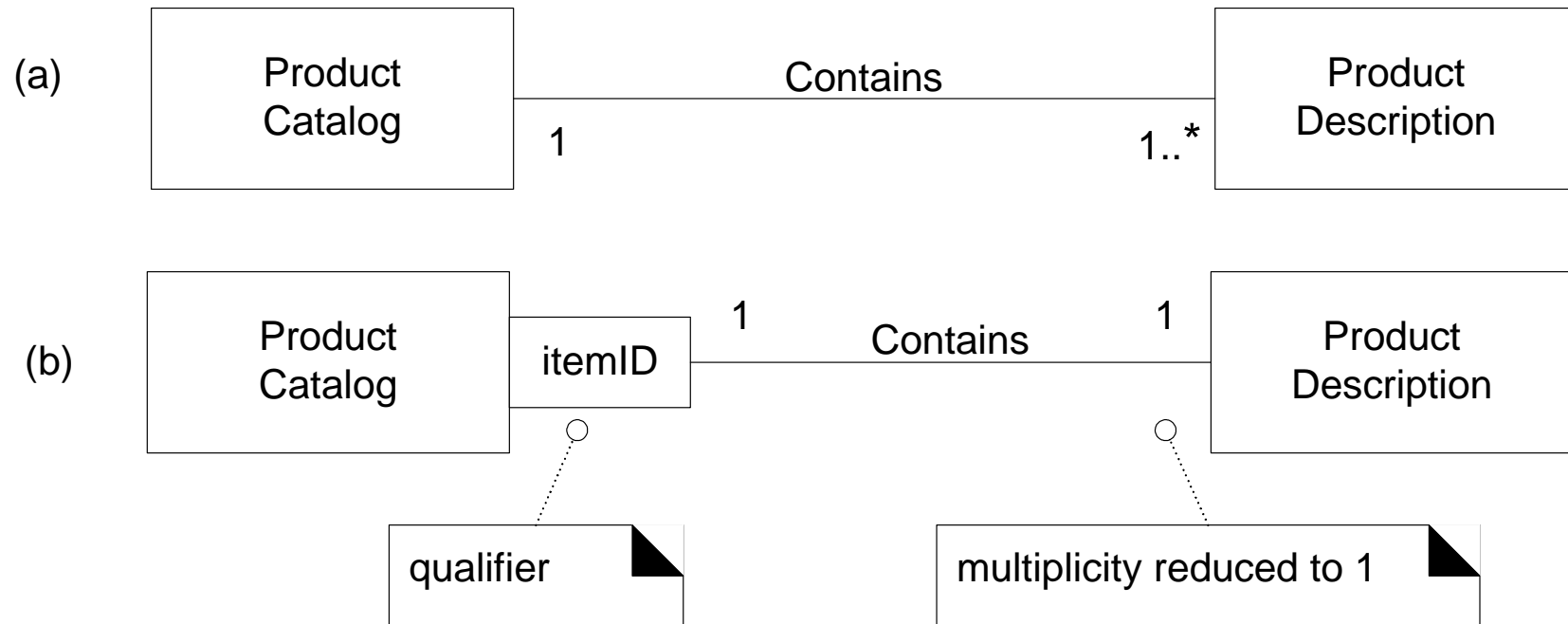


Fig. 16.16

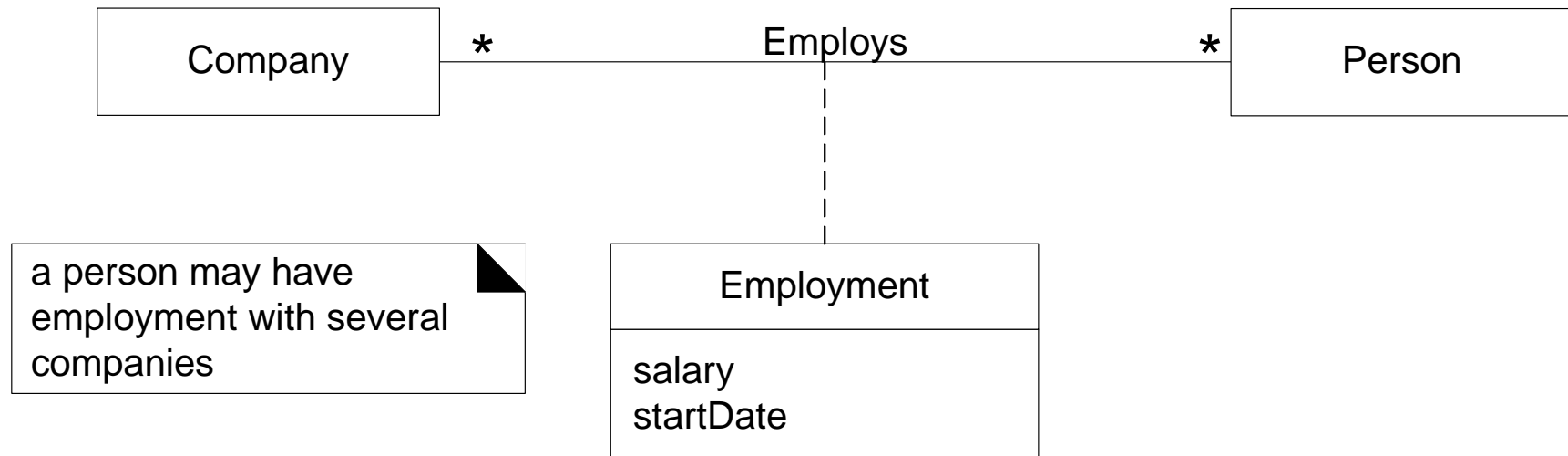


Fig. 16.17

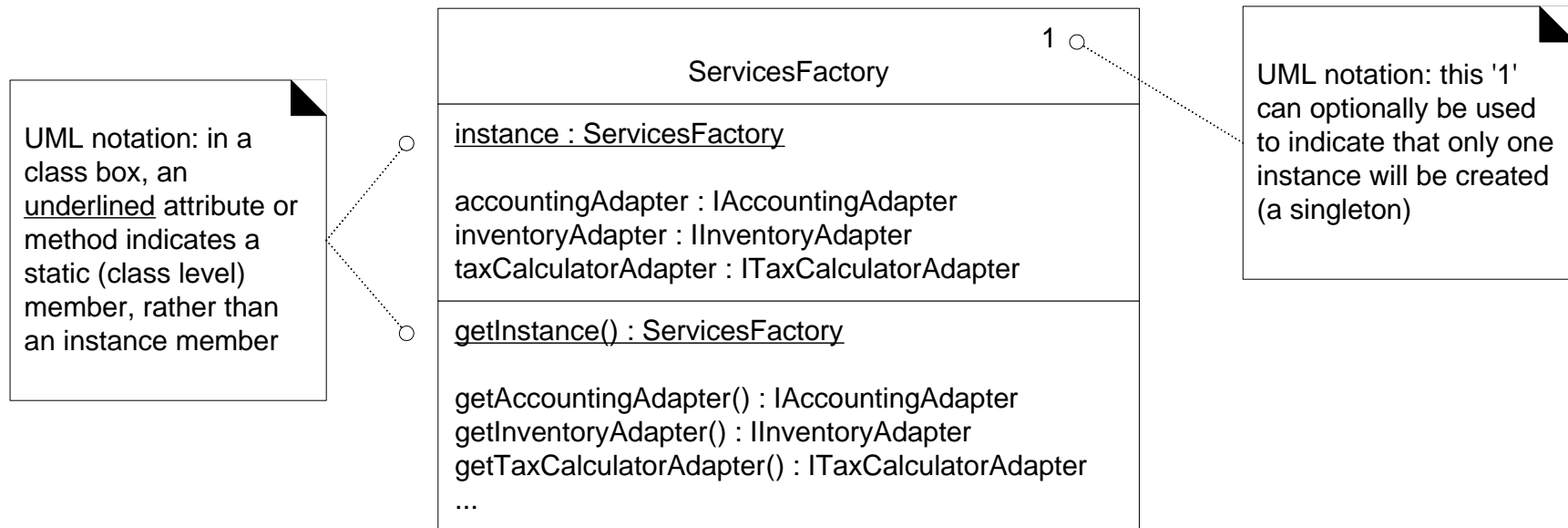


Fig. 16.18

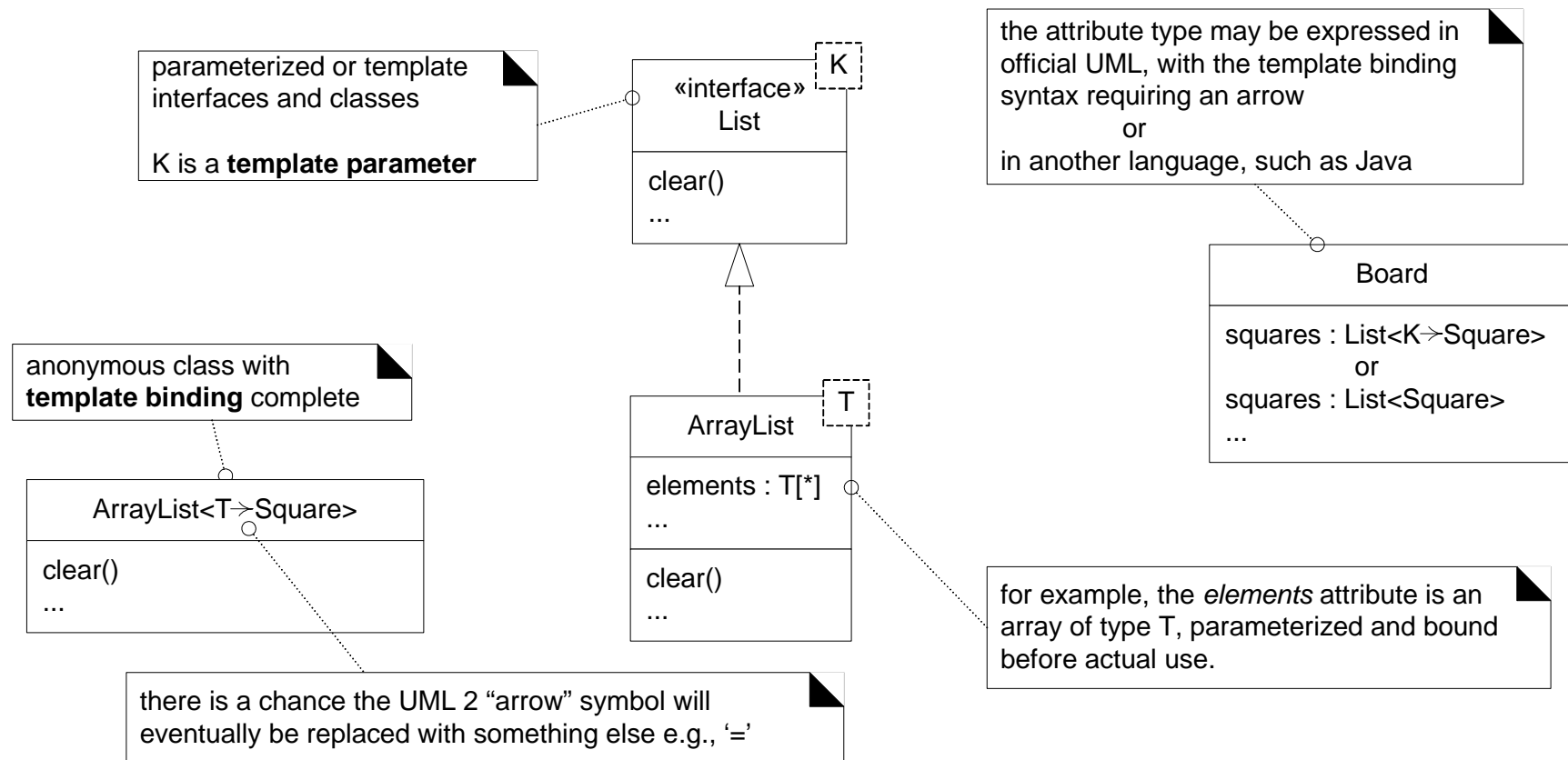


Fig. 16.19

| |
|---|
| .DataAccessObject |
| id : Int ... |
| doX() ... |
| exceptions thrown DatabaseException IOException |
| responsibilities serialize and write objects read and deserialize objects ... |

Fig. 16.20

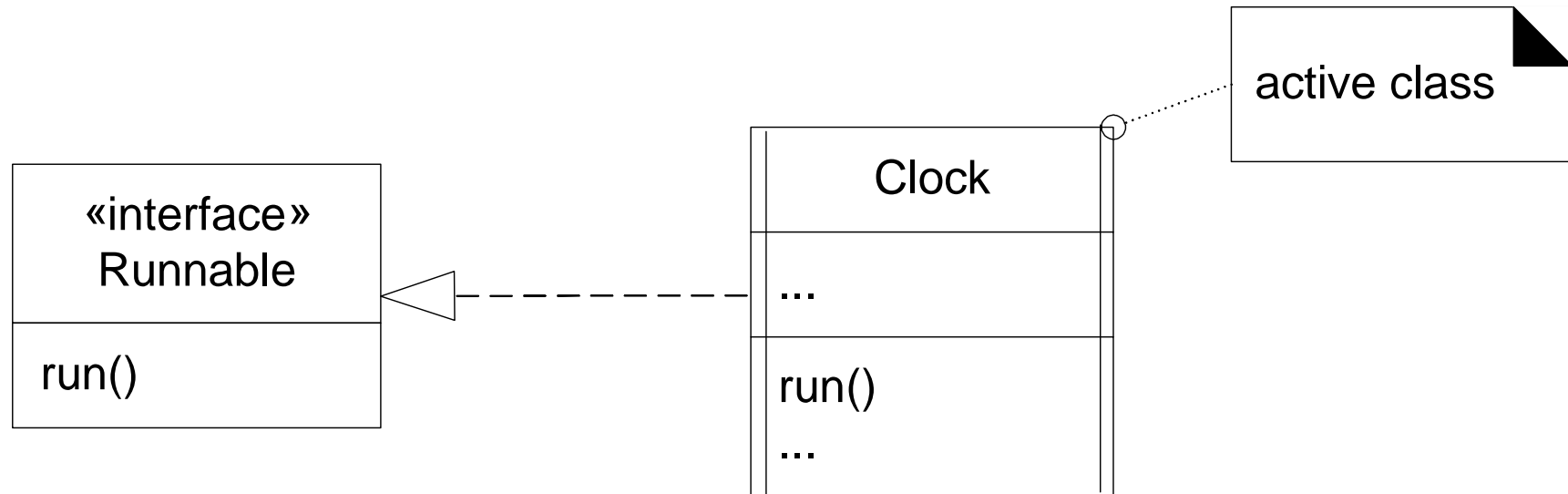


Fig. 16.21

