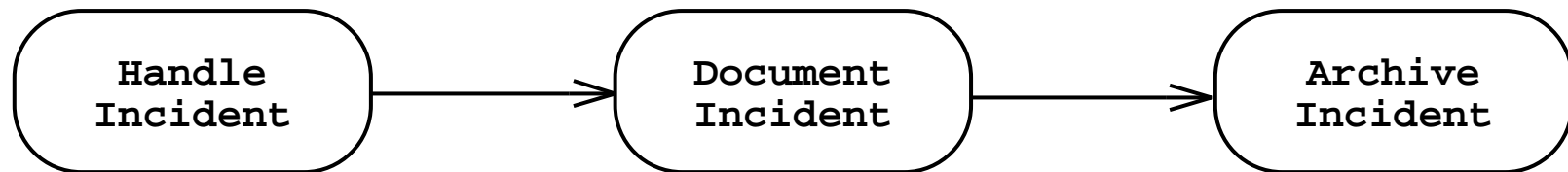


Activity Diagrams

An activity diagram shows flow control within a system

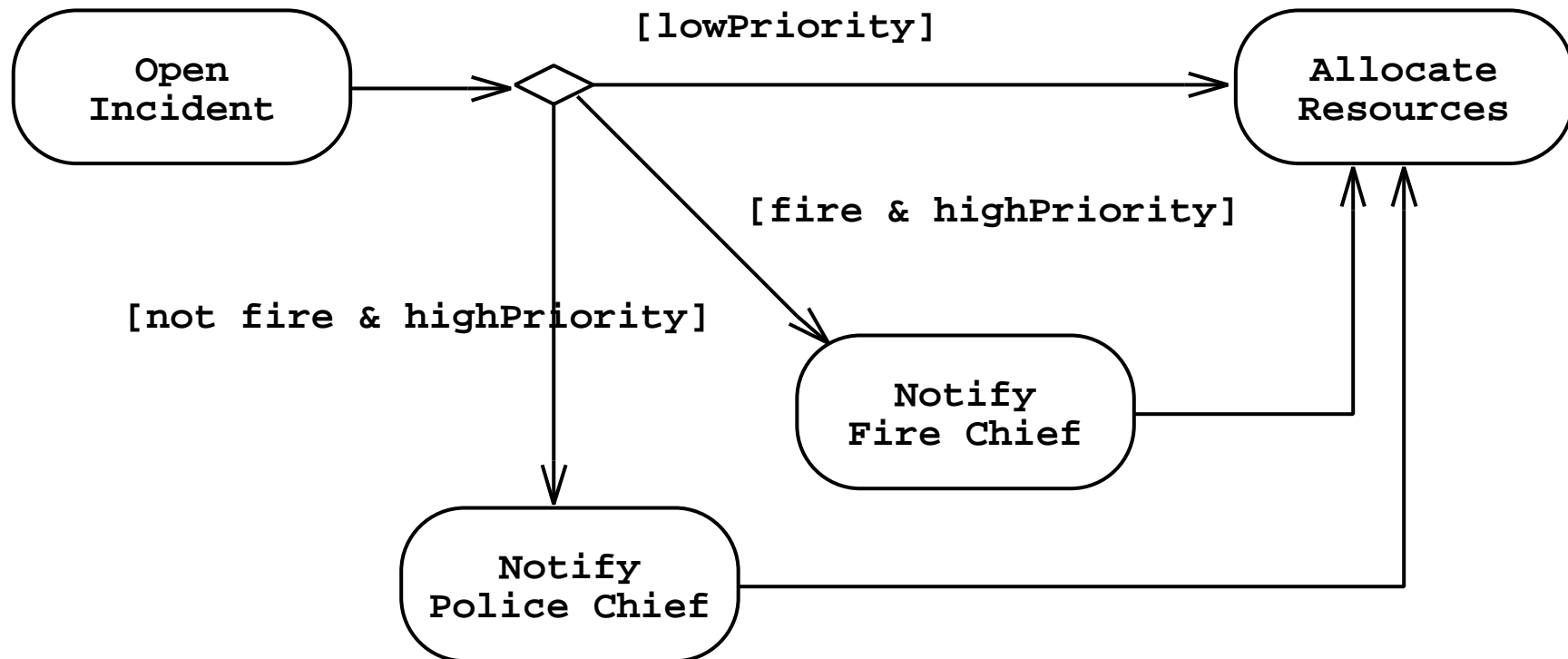


An activity diagram is a special case of a state chart diagram in which states are activities (“functions”)

Two types of states:

- ♦ ***Action state:***
 - ♦ **Cannot be decomposed any further**
 - ♦ **Happens “instantaneously” with respect to the level of abstraction used in the model**
- ♦ ***Activity state:***
 - ♦ **Can be decomposed further**
 - ♦ **The activity is modeled by another activity diagram**

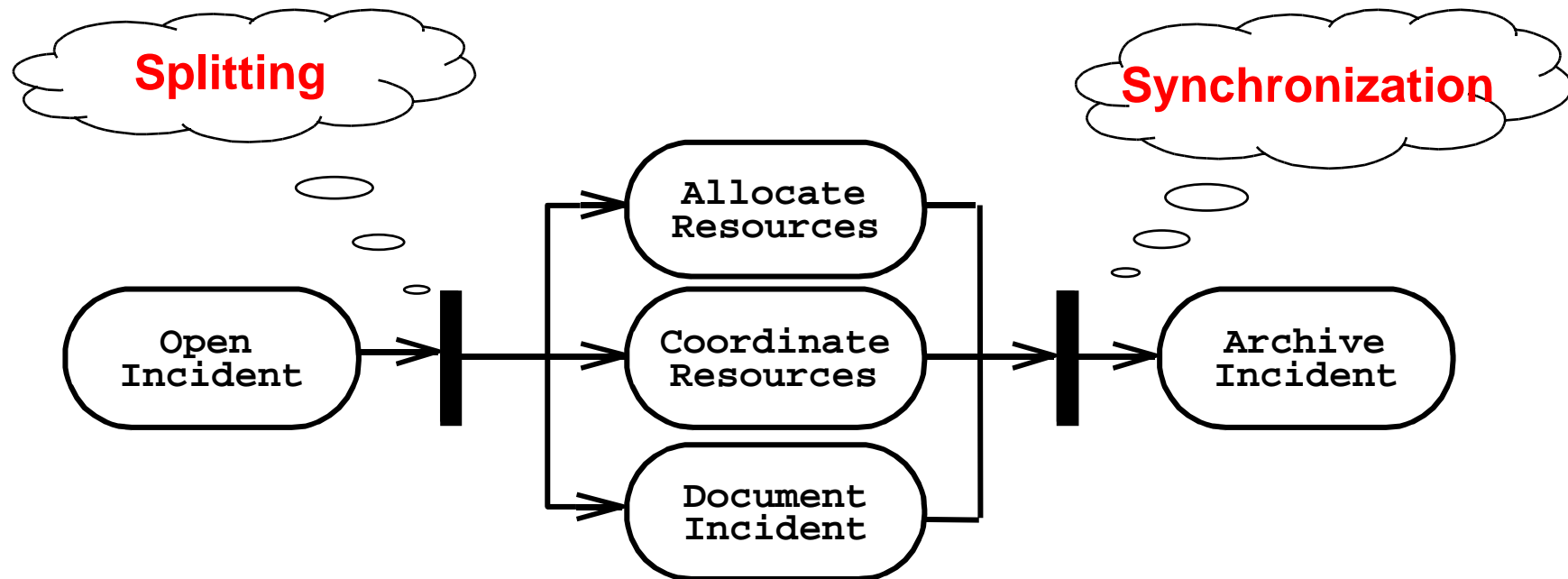
Activity Diagram: Modeling Decisions



Activity Diagrams: Modeling Concurrency

Synchronization of multiple activities

Splitting the flow of control into multiple threads



Activity Diagrams: Swimlanes

Actions may be grouped into swimlanes to denote the object or subsystem that implements the actions.

