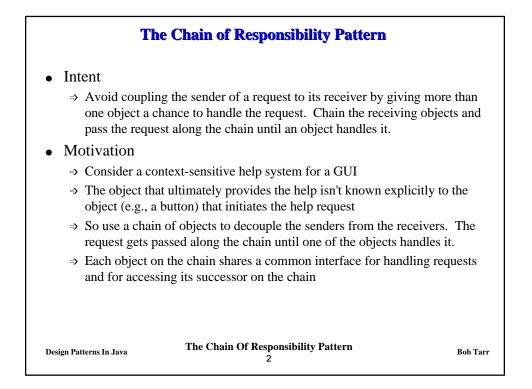
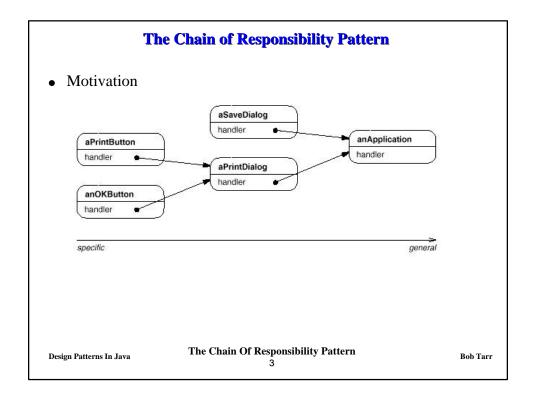


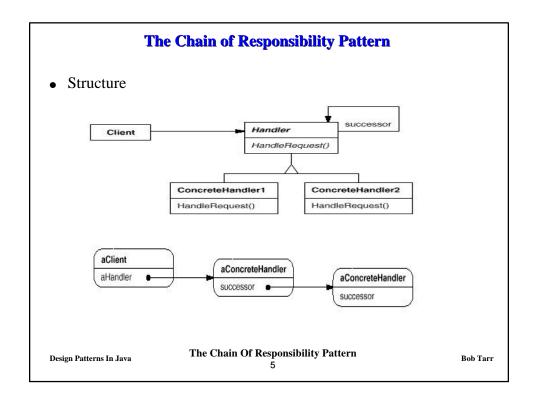
Design Patterns In Java

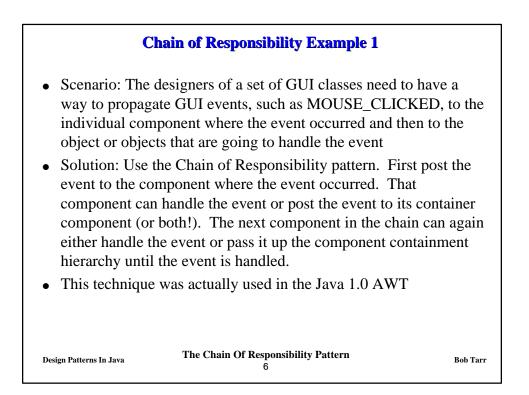
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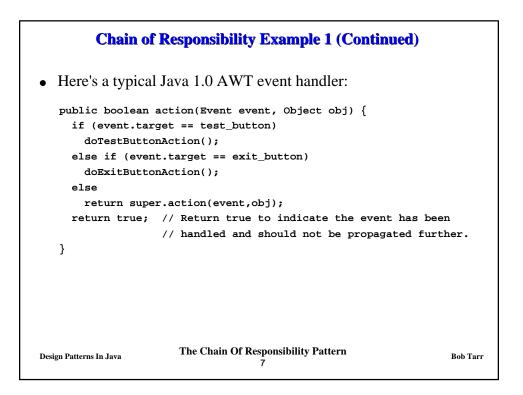


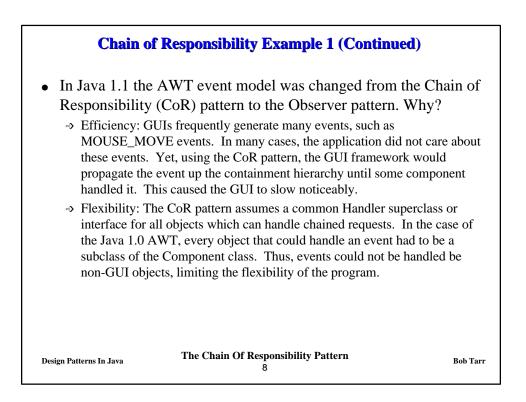


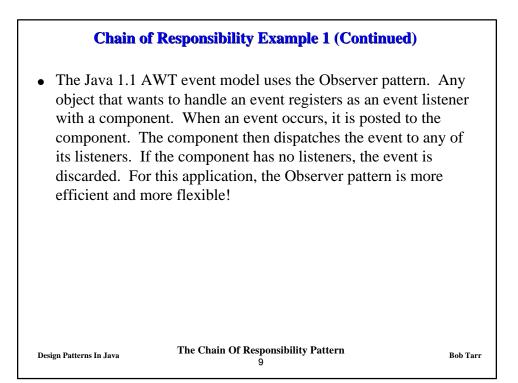
| The Chain of Responsibility Pattern | | |
|---|---|---------------|
| • Applicability | | |
| ⇒ Use Chain of Resp | onsibility: | |
| → When more than know in advance | one object may handle a request and the actual h | andler is not |
| - | ollow a "handle or forward" model - that is, some e they are generated while others must be forward led | - |
| • Consequences | | |
| 1 0 | between the sender of a request and the rece have no explicit knowledge of each other | iver - the |
| ⇒ Receipt is not guar without being hand | anteed - a request could fall off the end of th led | e chain |
| \Rightarrow The chain of handle | ers can be modified dynamically | |
| Design Patterns In Java | The Chain Of Responsibility Pattern 4 | Bob Tarr |











Chain of Responsibility Example 2 Scenario: We are designing the software for a security monitoring system. The system uses various sensors (smoke, fire, motion, etc.) which transmit their status to a central computer. We decide to instantiate a sensor object for each physical sensor. Each sensor object knows when the value it is sensing exceeds some threshold(s). When this happens, the sensor object should take some action. But the action that should be taken may depend on factors other than just the sensor's value. For example, the location of the sensor, the value of the data or equipment located at the sensor's position, the value of the data or equipment in other locations near the sensor's position, etc. We want a very scalable solution in which we can use our physical sensors and sensor objects in any environment. What can be do??

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