https://peacemaker.un.org/





Mediator





Mediator Intent

Define <u>an object</u> that encapsulates how a <u>set of</u> <u>objects</u> interact. Mediator promotes loose coupling by keeping objects from referring to each other explicitly, and it lets you <u>vary their interaction</u> <u>independently</u>.

Category?

(Behavioral)



Mediator

Context: complex system, supporting intercommunication between classes may become inherently tangled

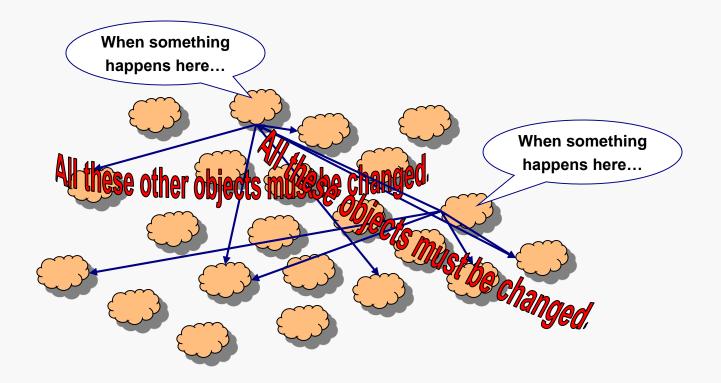
Approach: forward messages to the appropriate object(s) via the mediator object.

Pros: loose coupling between objects and encapsulation of the **business relationships** within the mediator

Cons: potentially leading to monolith maintenance burden, overhead and lack of reuse

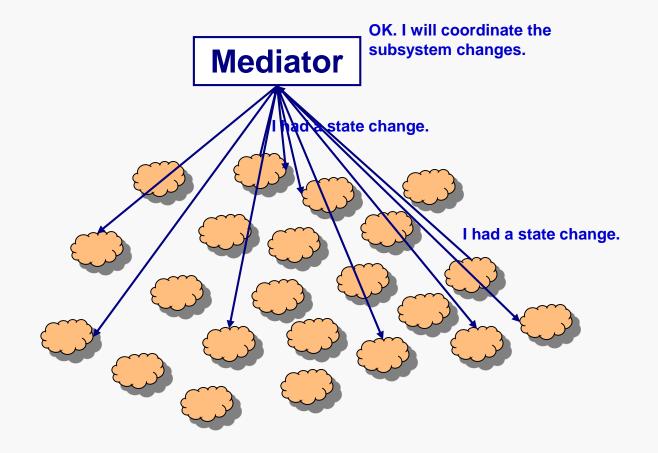


When objects in a subsystem interact, they often become tightly bound.

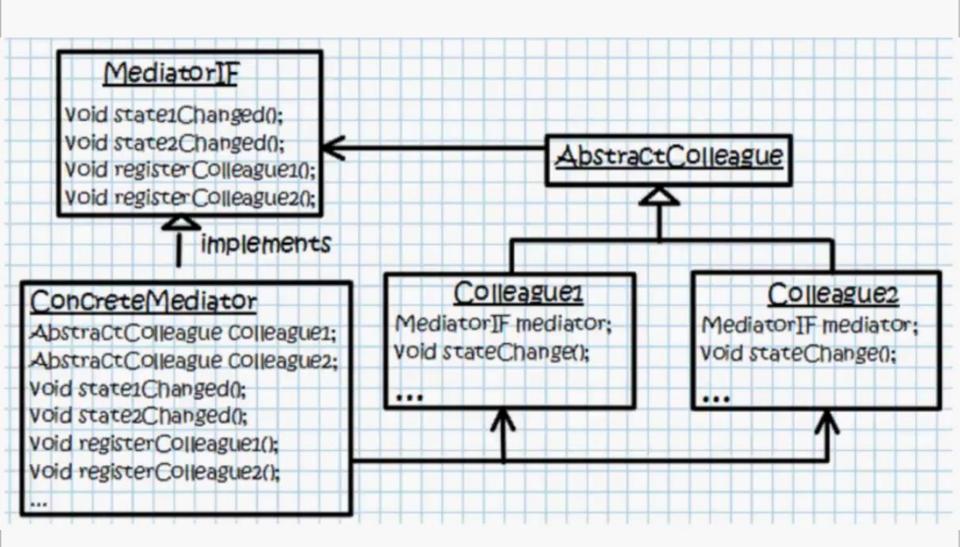




Mediator lets you separate out the coordination behavior to one location.

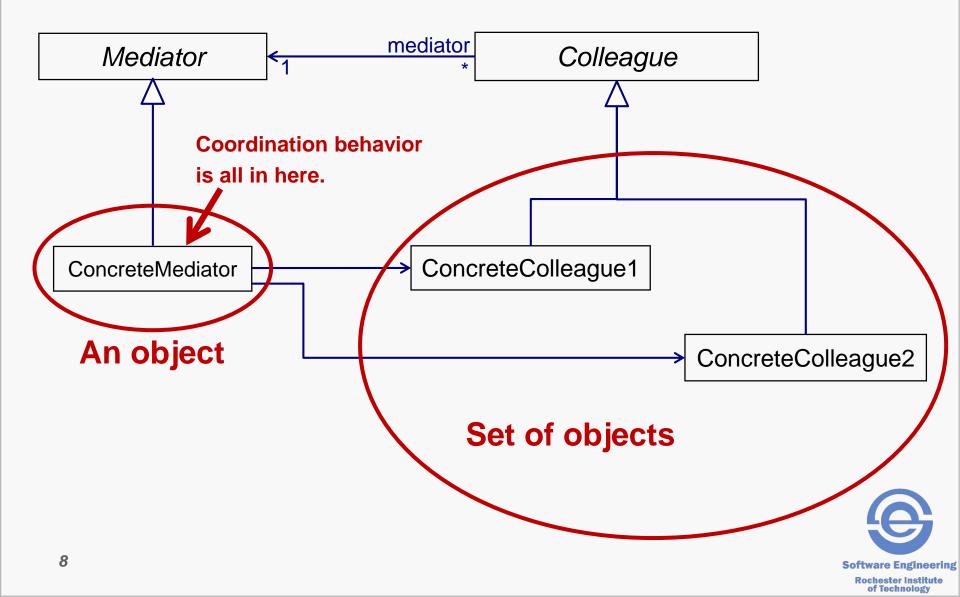




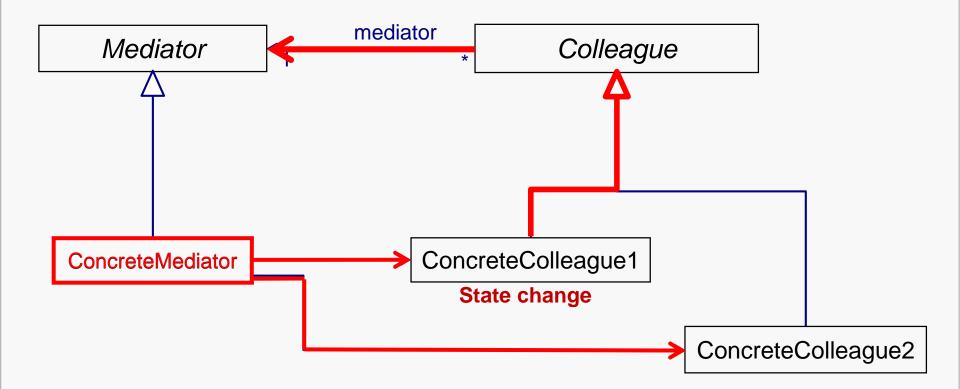




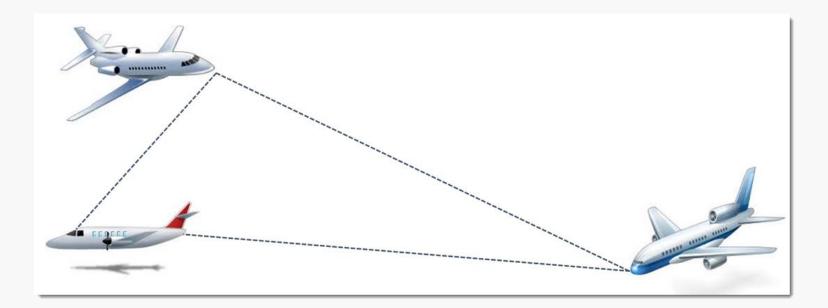
The Mediator pattern has a very simple structure.



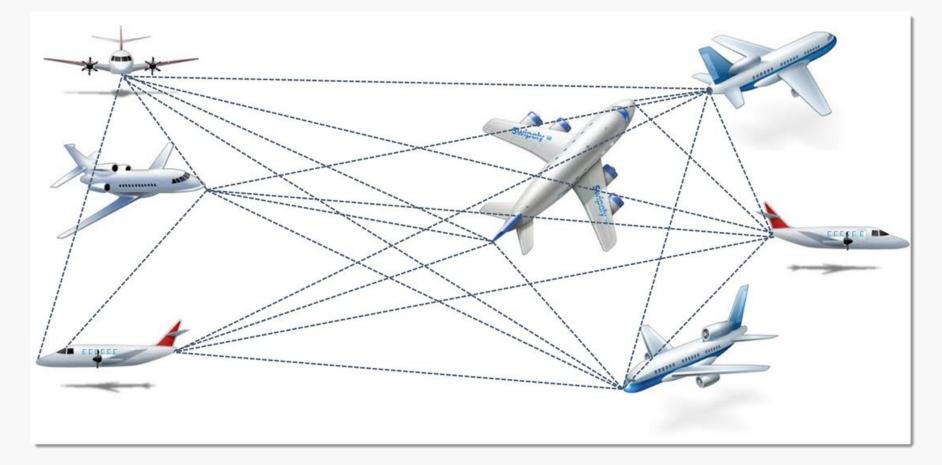
The coordination activity all resides in the mediator relieving subsystem objects of this duty.



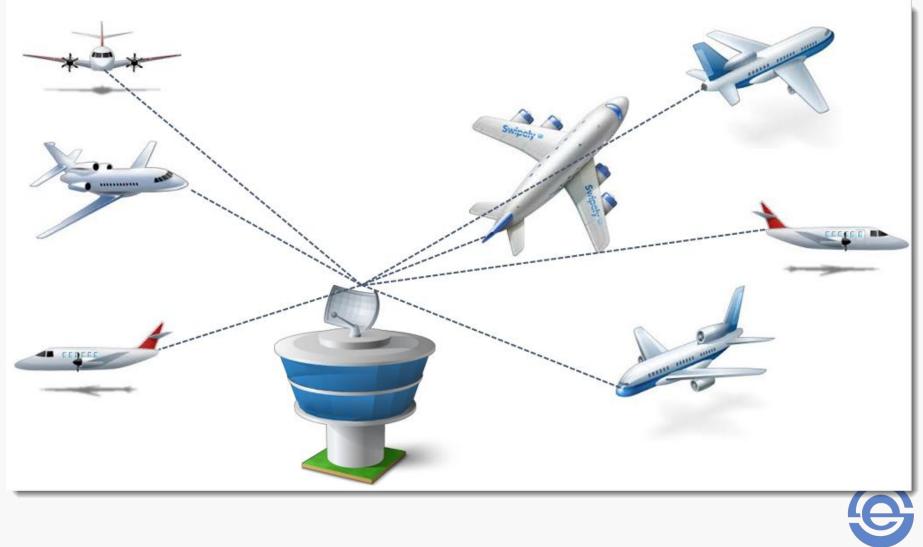












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Controlling a bank of elevators is an application that could benefit from use of the Mediator pattern.



- Set of objects
 - Elevators, floor buttons
 - Floor lobby call signals
- Coordinating behaviors
 - Morning rush, lunch, evening
 - Weekday
 - Weekend
 - Emergency



You can mediate using the stock pattern with a little help from an observer.

