

Twitter Thread by [Javarevisited](#)



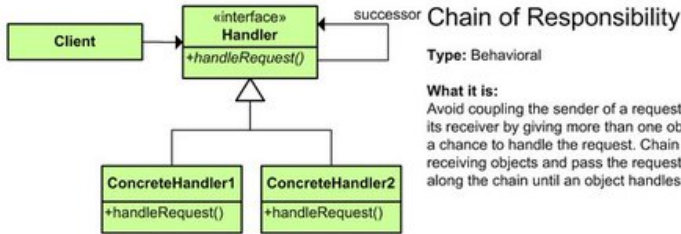
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Object Oriented Design patterns to write clean code

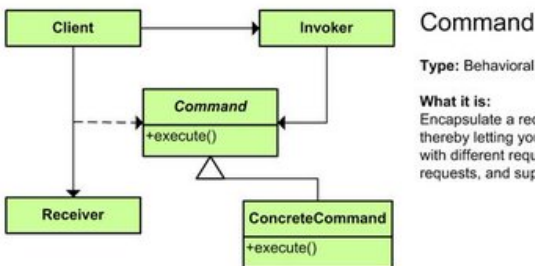
- C Abstract Factory
- S Adapter
- S Bridge
- C Builder
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- B Command
- S Composite
- S Decorator
- S Facade
- C Factory Method
- S Flyweight
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- B Iterator
- B Mediator
- B Memento
- C Prototype
- S Proxy
- B Observer
- C Singleton
- B State
- B Strategy
- B Template Method
- B Visitor



Chain of Responsibility

Type: Behavioral

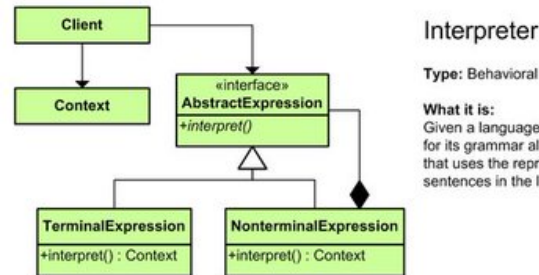
What it is: Avoid coupling the sender of a request to its receiver by giving more than one object a chance to handle the request. Chain the receiving objects and pass the request along the chain until an object handles it.



Command

Type: Behavioral

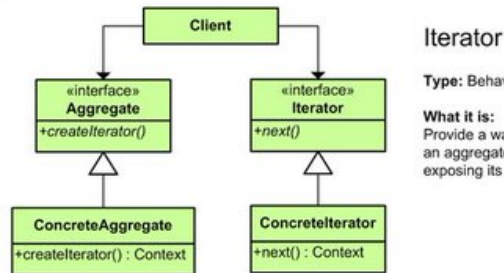
What it is: Encapsulate a request as an object, thereby letting you parameterize clients with different requests, queue or log requests, and support undoable operations.



Interpreter

Type: Behavioral

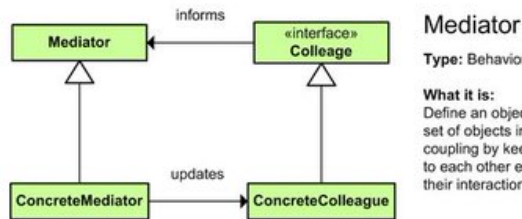
What it is: Given a language, define a representation for its grammar along with an interpreter that uses the representation to interpret sentences in the language.



Iterator

Type: Behavioral

What it is: Provide a way to access the elements of an aggregate object sequentially without exposing its underlying representation.



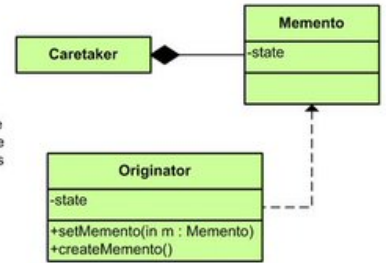
Mediator

Type: Behavioral

What it is: Define an object that encapsulates how a set of objects interact. Promotes loose coupling by keeping objects from referring to each other explicitly and it lets you vary their interactions independently.

Memento

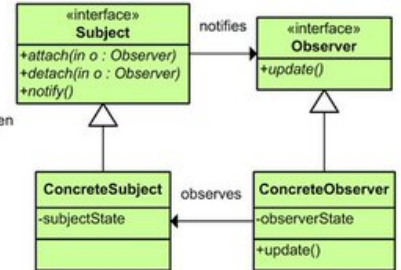
Type: Behavioral



What it is: Without violating encapsulation, capture and externalize an object's internal state so that the object can be restored to this state later.

Observer

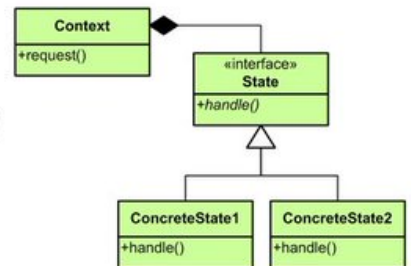
Type: Behavioral



What it is: Define a one-to-many dependency between objects so that when one object changes state, all its dependents are notified and updated automatically.

State

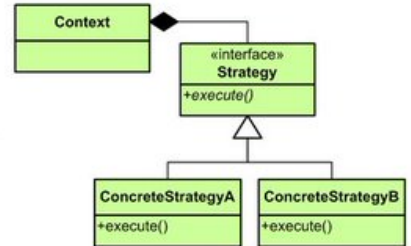
Type: Behavioral



What it is: Allow an object to alter its behavior when its internal state changes. The object will appear to change its class.

Strategy

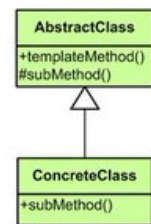
Type: Behavioral



What it is: Define a family of algorithms, encapsulate each one, and make them interchangeable. Lets the algorithm vary independently from clients that use it.

Template Method

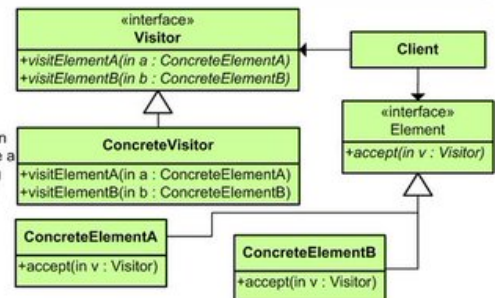
Type: Behavioral



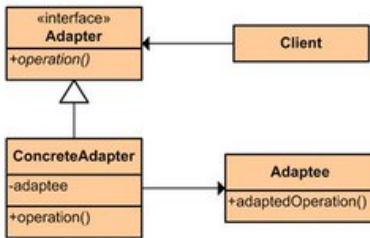
What it is: Define the skeleton of an algorithm in an operation, deferring some steps to subclasses. Lets subclasses redefine certain steps of an algorithm without changing the algorithm's structure.

Visitor

Type: Behavioral



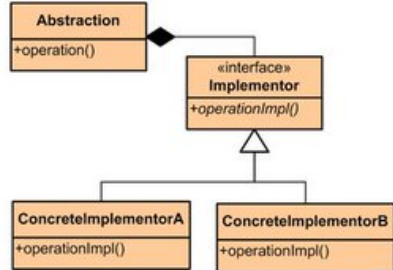
What it is: Represent an operation to be performed on the elements of an object structure. Lets you define a new operation without changing the classes of the elements on which it operates.



Adapter

Type: Structural

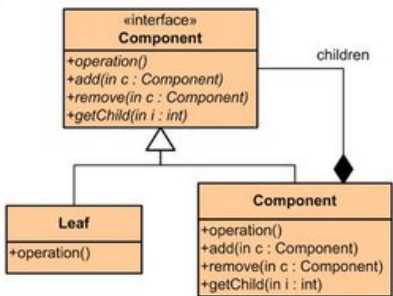
What it is: Convert the interface of a class into another interface clients expect. Lets classes work together that couldn't otherwise because of incompatible interfaces.



Bridge

Type: Structural

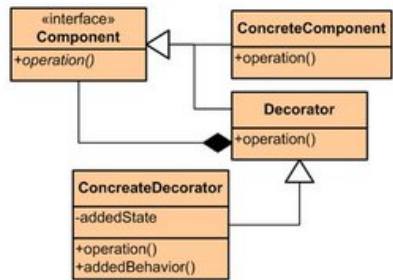
What it is: Decouple an abstraction from its implementation so that the two can vary independently.



Composite

Type: Structural

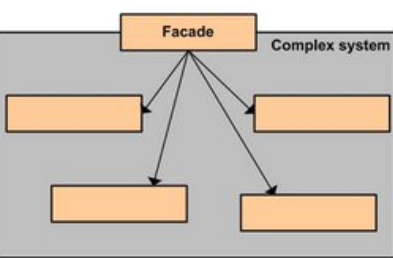
What it is: Compose objects into tree structures to represent part-whole hierarchies. Lets clients treat individual objects and compositions of objects uniformly.



Decorator

Type: Structural

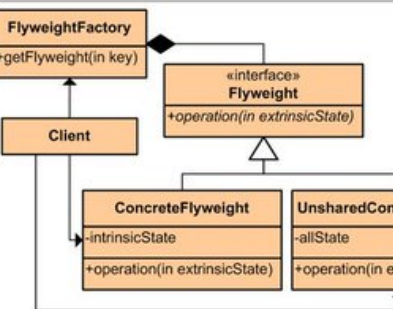
What it is: Attach additional responsibilities to an object dynamically. Provide a flexible alternative to sub-classing for extending functionality.



Facade

Type: Structural

What it is: Provide a unified interface to a set of interfaces in a subsystem. Defines a high-level interface that makes the subsystem easier to use.



Flyweight

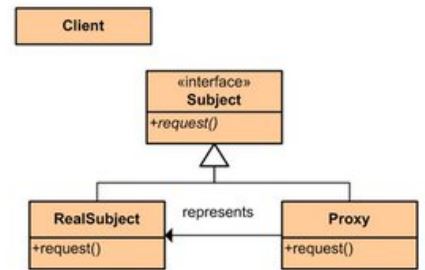
Type: Structural

What it is: Use sharing to support large numbers of fine grained objects efficiently.

Proxy

Type: Structural

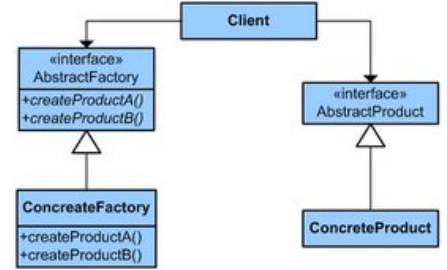
What it is: Provides a surrogate or placeholder for another object to control access to it.



Abstract Factory

Type: Creational

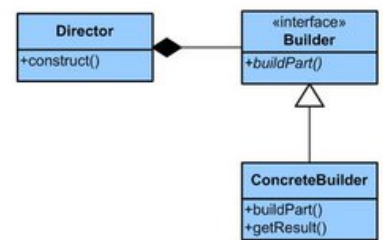
What it is: Provides an interface for creating families of related or dependent objects without specifying their concrete class.



Builder

Type: Creational

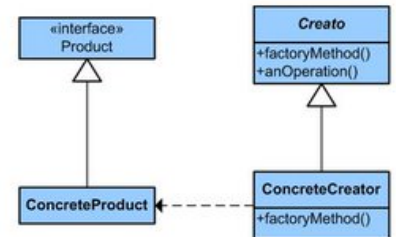
What it is: Separate the construction of a complex object from its representing so that the same construction process can create different representations.



Factory Method

Type: Creational

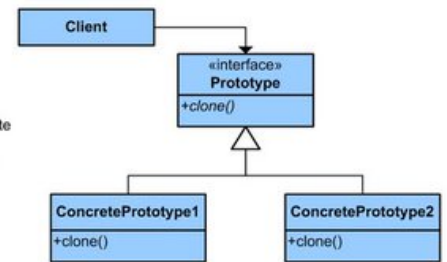
What it is: Define an interface for creating an object, but let subclasses decide which class to instantiate. Lets a class defer instantiation to subclasses.



Prototype

Type: Creational

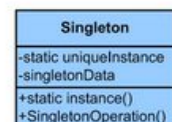
What it is: Specify the kinds of objects to create using a prototypical instance, and create new objects by copying this prototype.



Singleton

Type: Creational

What it is: Ensure a class only has one instance and provide a global point of access to it.



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