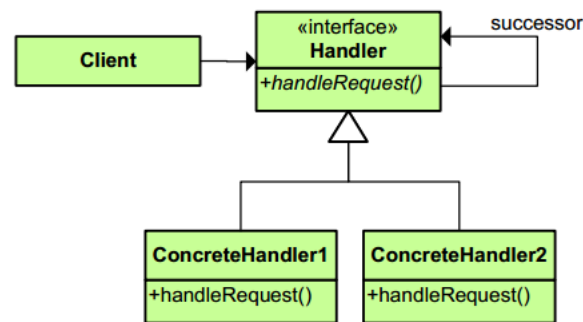


C	Abstract Factory	S	Facade	S	Proxy
S	Adapter	C	Factory Method	B	Observer
S	Bridge	S	Flyweight	C	Singleton
C	Builder	B	Interpreter	B	State
B	Chain of Responsibility	B	Iterator	B	Strategy
B	Command	B	Mediator	B	Template Method
S	Composite	B	Memento	B	Visitor
S	Decorator	C	Prototype		

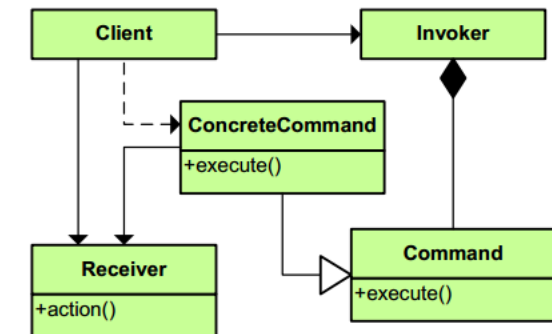


Chain of Responsibility

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.

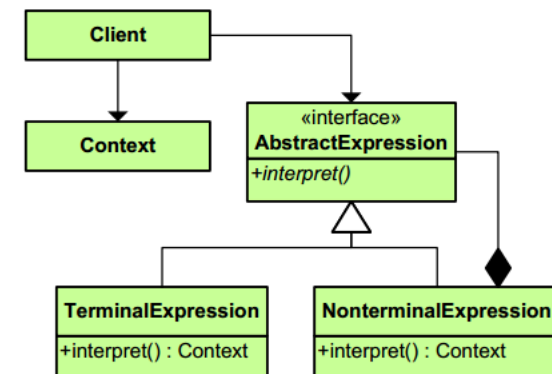


Command

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.

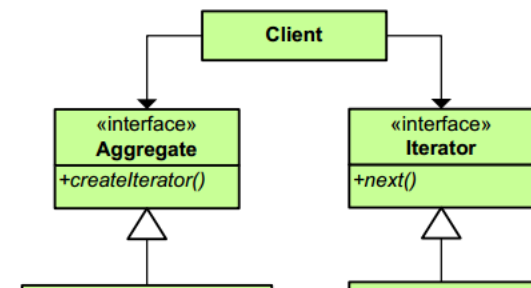


Interpreter

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.

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 its 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:

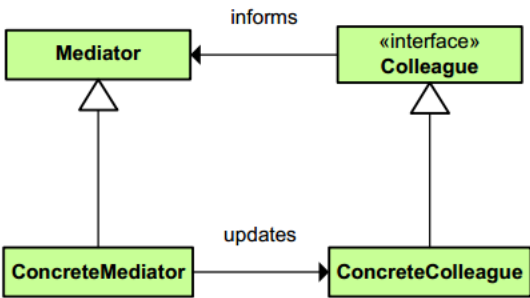
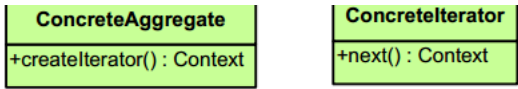
Define a family of algorithms, encapsulate each one, and make them interchangeable. Lets the algorithm vary independently from clients that use it.

Template Method

Type: Behavioral

What it is:

Define the skeleton of an algorithm in a method, deferring some steps to subclasses. Lets subclasses redefine certain steps of an algorithm without changing the algorithm's structure.



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.

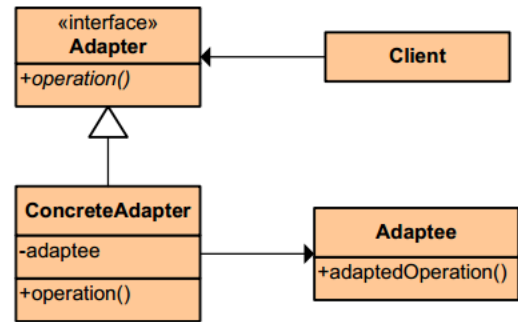
Visitor

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.

Copyright © 2007 Jason S. McDonald
http://www.McDonaldLand.info

Gamma, Erich; Helm, Richard; Johnson, Ralph; Vlissides, John (1995). *Design Patterns: Elements of Reusable Object-Oriented Software*. Reading, Massachusetts: Addison Wesley Longman, Inc...



Adapter

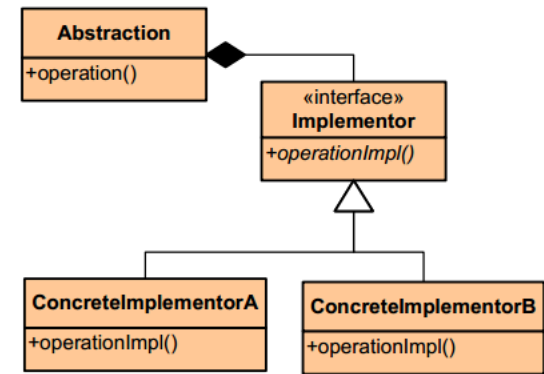
Type: Structural

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.

Proxy

Type: Structural

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



Bridge

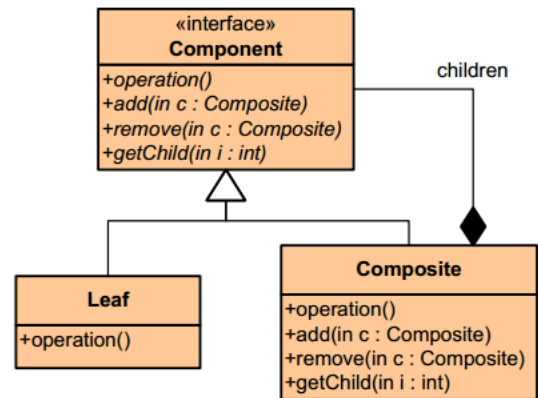
Type: Structural

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

Abstract Factory

Type: Creational

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



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.

Builder

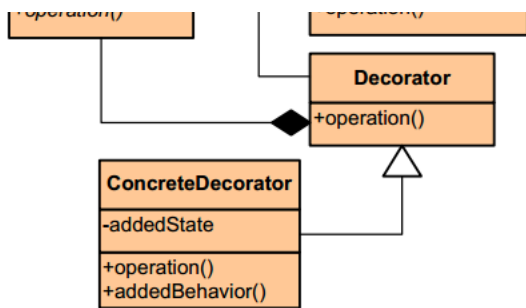
Type: Creational

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



Decorator

Factory Method



Type: Structural

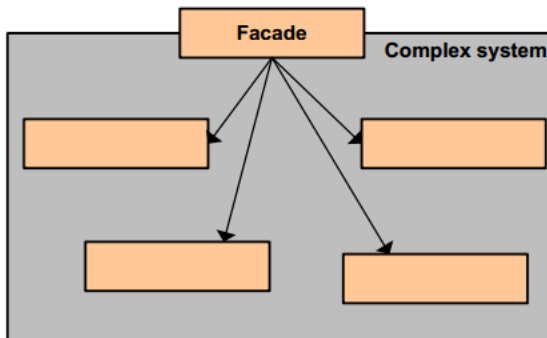
What it is:

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

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.



Facade

Type: Structural

What it is:

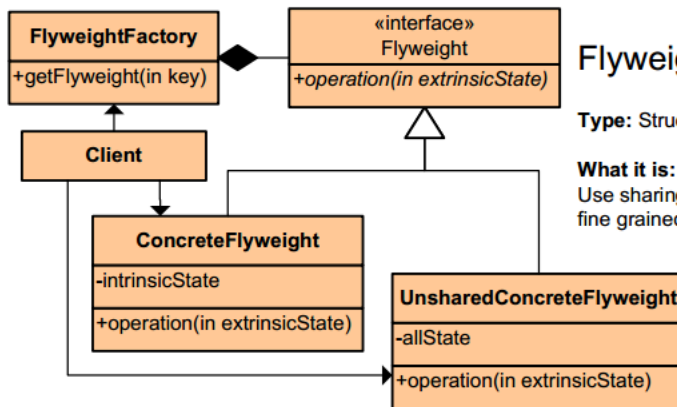
Provide a unified interface to a set of interfaces in a subsystem. Defines a high-level interface that makes the subsystem easier to use.

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.



Flyweight

Type: Structural

What it is:

Use sharing to support large numbers of fine grained objects efficiently.

Singleton

Type: Creational

What it is:

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