

«interface»

+operationImpl()

ConcreteImplementorB

operationImpl()

operation()

ConcreteImplementorA

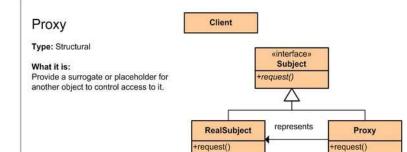
+operationImpl()

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.



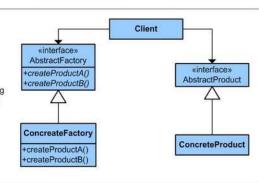
Bridge Type: Structural Implementor

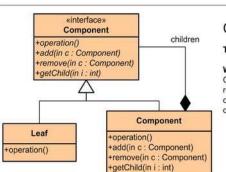
Decouple an abstraction from its implementation so that the two can vary independently.

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

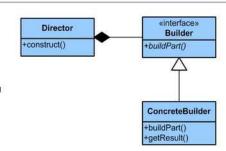
What it is:

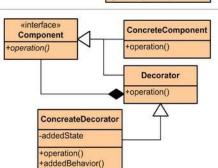
Compose objects into tree structures to represent part-whole hierarchies. Lets clients treat individual objects and compositions of objects uniformly

Builder

Type: Creational

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





Decorator

Type: Structural

What it is:

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

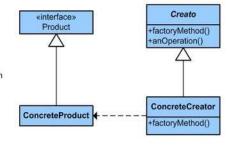
functionality.

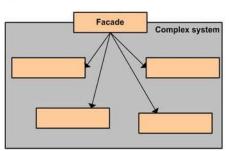
Factory Method

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.





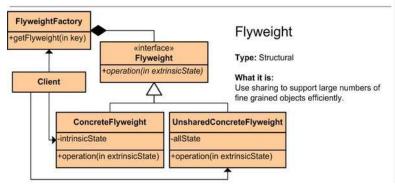
Facade

Type: Structural

What it is:

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

Client Prototype Type: Creational «interface» **Prototype** What it is: +clone() Specify the kinds of objects to create using a prototypical instance, and create new objects by copying this prototype. ConcretePrototype1 ConcretePrototype2 +clone() +clone()



Singleton

Type: Creational

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

Singleton

-static uniqueInstance -singletonData

+static instance() +SingletonOperation(