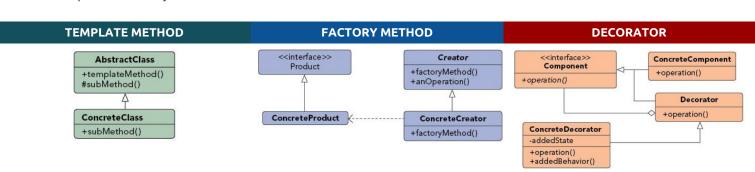


"Define a one-to-many dependency between objects so that when one object changes state, all its dependents are notified and updated automatically." "Ensure a class only has one instance, and provide a global point of access to it."

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



"Define the skeleton of an algorithm in an operation, deferring some steps to subclasses. Template Method lets subclasses redefine certain steps of an algorithm without changing the algorithm's structure."

"Define an interface for creating an object, but let subclasses decide which class to instantiate. Factory Method lets a class defer instantiation to subclasses." "Attach additional responsibilities to an object dynamically. Decorators provide a flexible alternative to subclassing for extending functionality."

OBJECT POOL MANAGER

"Uses a set of initialized objects kept ready to use - a pool - rather than allocating and destroying them on demand."

"Provide a unified interface to a set of interfaces in a subsystem. Facade defines a higher-level interface that makes the subsystem easier to use."

FACADE