Inheritance

Template Method
Factory Method

Enhance
Superclass method
in Subclass

Pre processing
Super. M();
Post processing

Composition

Strategy

Strategy

Decorator

Proxy is similar to Decorator. The basic structure is the same. Differences between the two patterns:

1. Decorator is used to add functionality to the wrapped object. Proxy has a different intent: often to reduce access to functionality.

2. A Decorator always stores a reference to a wrapped object. A Proxy may not, depending on what it does (RMI, lazy loading)

Wrapping

Decorator  Proxy  Adapter