

Template Method

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Lecture Goals

- Cover Material from Chapter 8 of the Design Patterns Textbook
 - Template Method Pattern

Template Method: Definition

- The Template Method Pattern defines the skeleton of an algorithm in a method, deferring some steps to subclasses. Template Method lets subclasses **redefine** certain steps of an algorithm without changing the algorithm's **structure**
 - Template Method defines the steps of an algorithm and allows subclasses to provide the implementation for one or more steps
 - Makes the algorithm abstract
 - Each step of the algorithm is represented by a method
 - Encapsulates the details of most steps
 - Steps (methods) handled by subclasses are declared abstract
 - Shared steps (concrete methods) are placed in the same class that has the template method, allowing for code re-use among the various subclasses