

## What did the Template Method get us?



### Underpowered Tea & Coffee implementation

Coffee and Tea are running the show; they control the algorithm.

Code is duplicated across Coffee and Tea.

Code changes to the algorithm require opening the subclasses and making multiple changes.

Classes are organized in a structure that requires a lot of work to add a new caffeine beverage.

Knowledge of the algorithm and how to implement it is distributed over many classes.



### New, hip CaffeineBeverage powered by Template Method

The CaffeineBeverage class runs the show; it has the algorithm, and protects it.

The CaffeineBeverage class maximizes reuse among the subclasses.

The algorithm lives in one place and code changes only need to be made there.

The Template Method Pattern provides a framework that other caffeine beverages can be plugged into. New caffeine beverages only need to implement a couple of methods.

The CaffeineBeverage class concentrates knowledge about the algorithm and relies on subclasses to provide complete implementations.