Where to Go from Here

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Overview

Tips on how to use design patterns

Summary of the course

Tips for Using Patterns

Patterns can easily
complicate things.

Bad Usage of Patterns

```
public class HelloWorld {
    public static void main(String[] args) {
        MessageBody messageBody = new MessageBody();
        messageBody.configure("Hello World!");

        AbstractStrategyFactory asf = DefaultFactory.getInstance();

        MessageStrategy strategy = asf.createStrategy(messageBody);
        messageBody.send(strategy);
    }
}
```

Bad Usage of Patterns

```
public class HelloWorld {
   public static void main(String[] args) {
      AbstractFactory factory =
            FactorySingleton.getInstance().getHelloWorldFactory();

      Subject subject = factory.createSubject();
      subject.add(factory.createObserver());

      Command command = factory.createCommand(subject);

      command.execute();
   }
}
```

When to Use a Pattern?

Knowledge

Experience

Levels of Experience

Level 1	**I need a pattern for everything**
Level 2	**Maybe I need a pattern**
Level 3	**A pattern fits naturally here**

Implementation Tips for Patterns

Implement patterns with meaningful names for classes and methods

Practice refactoring

Course Wrap-up

Course Summary

Patterns are reusable and named solutions to recurring problems in a context

OOP building blocks and design principles

Inheritance is not always the best solution

Course Summary

Behavioral patterns

Creational patterns

Structural patterns

Course Summary

GoF patterns are the foundation to understand other types of patterns

It's easy to overuse patterns

For Beginners

Design Patterns Playbook: Structural Patterns

Paolo Perrotta

Implementing Design Patterns

Design Patterns in Java: Behavioral

Bryan Hansen

Implementing Design Patterns

Design Patterns in Java: Creational

Bryan Hansen

Implementing Design Patterns

Design Patterns in Java: Structural

Bryan Hansen

Implementing Design Patterns

Implementing Design Patterns Using Java 8 Lambda

Jose Paumard

Thank you