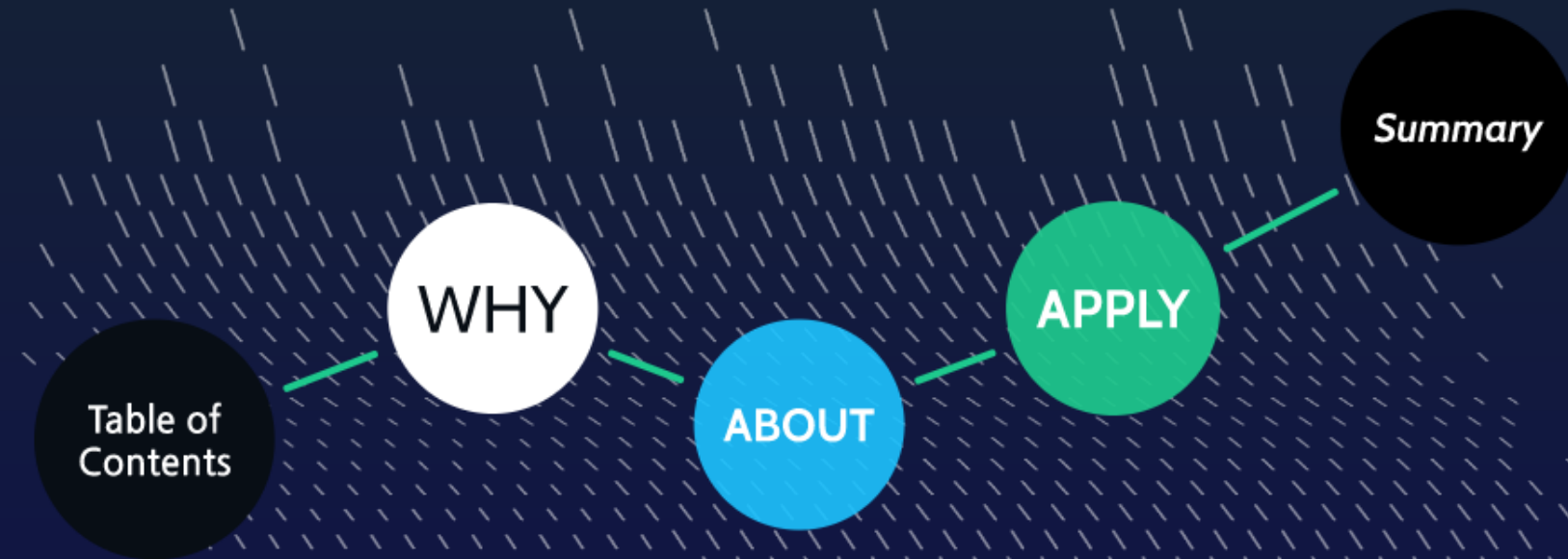


Design Pattern

네버리스트

Table of Contents

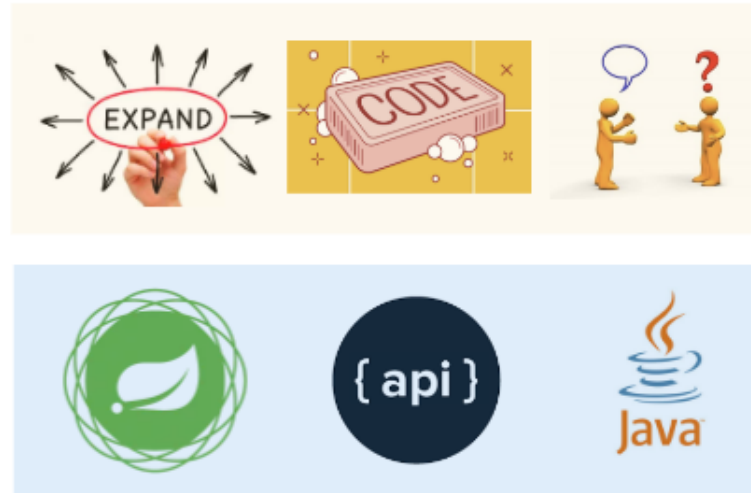
- **WHY** design pattern
- **ABOUT** design pattern
- **APPLY** design pattern

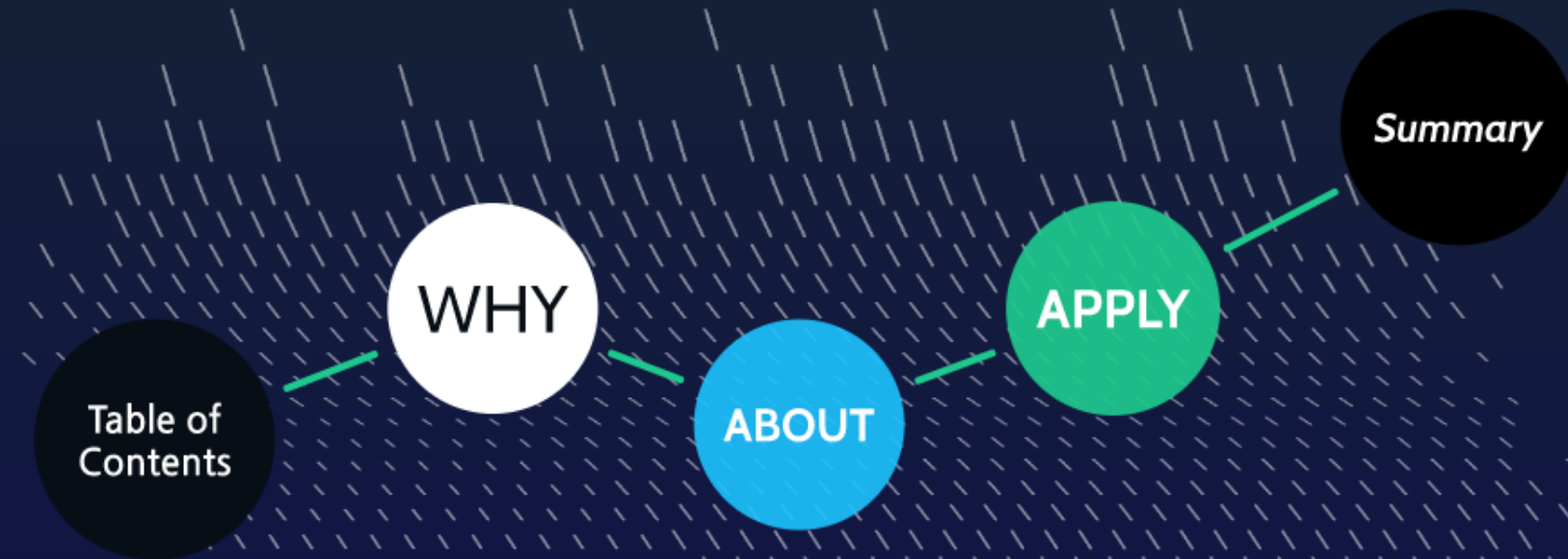


Design Pattern

네버리스트

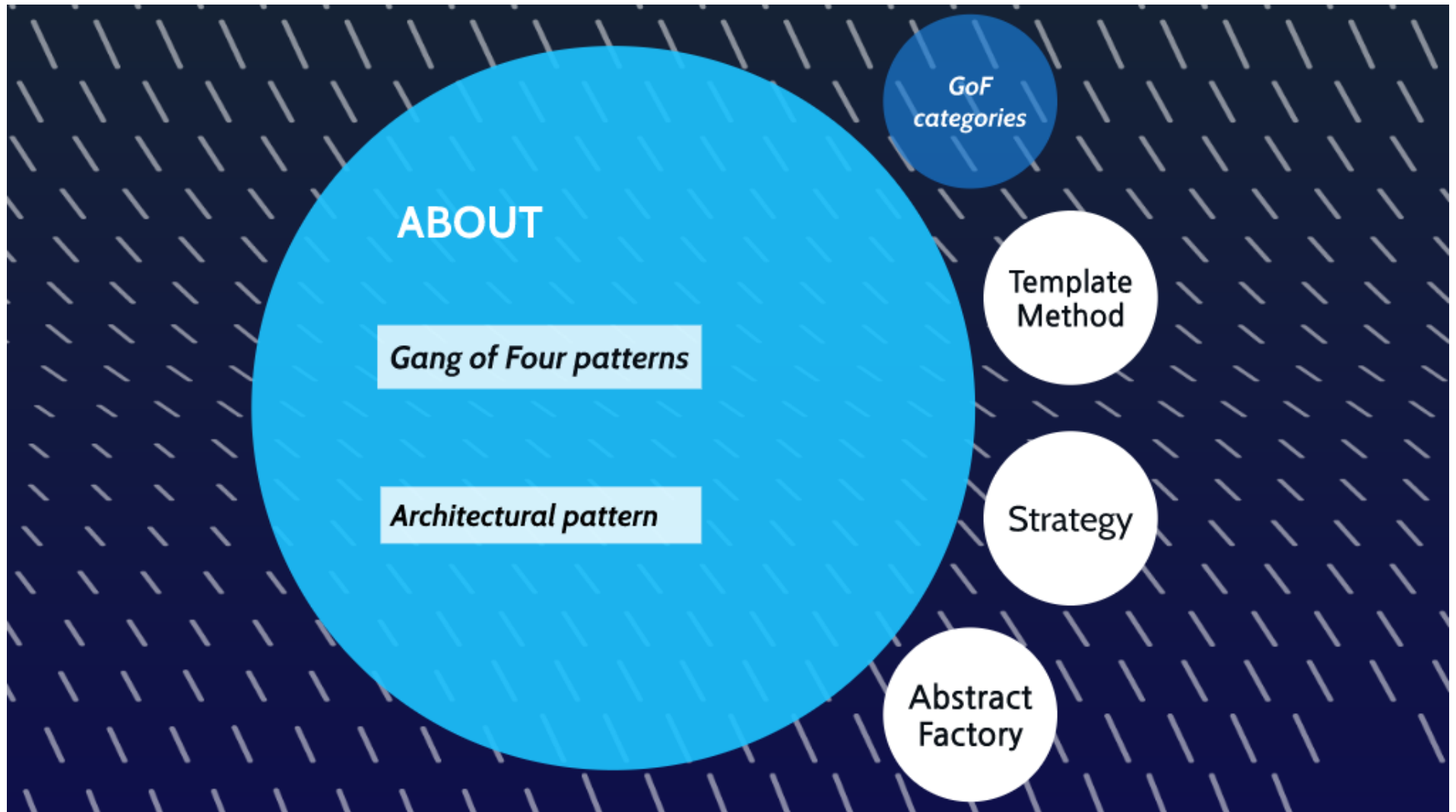
WHY





Design Pattern

네버레스트



Gang of Four patterns

GoF categories

Creational Patterns

Factory Method, **Abstract Factory**, Builder, Prototype, Singleton

Structural Patterns

Decorator, Adapter, Composite, Facade, Flyweight, Proxy ...

Behavioral Patterns

Template method, Iterator, Observer, **Strategy**, State ...

Template Method

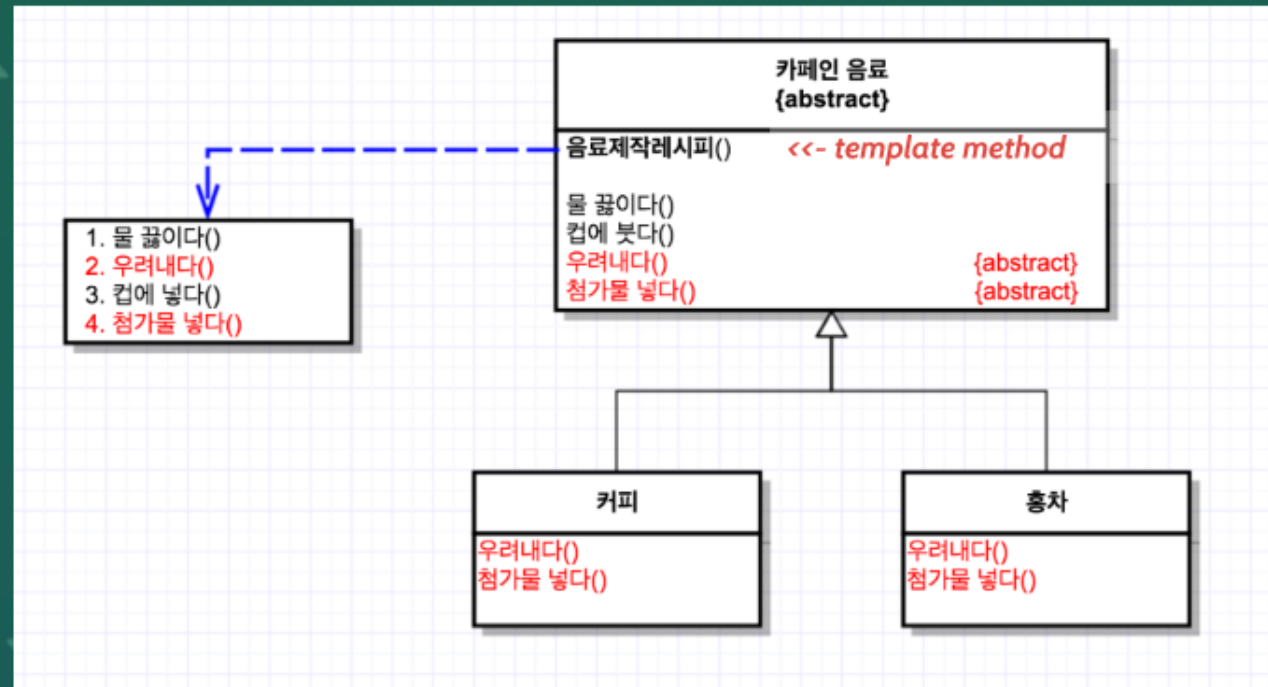
알고리즘의 구조를 유지하면서
서브클래스에서 특정 단계를 재정의



Example

Example

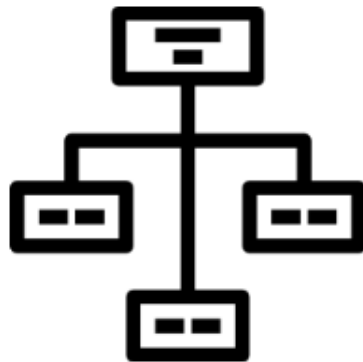
알고리즘의 구조를 유지하면서
서브클래스에서 특정 단계를 재정의



Head First Design Pattern 335p

Strategy

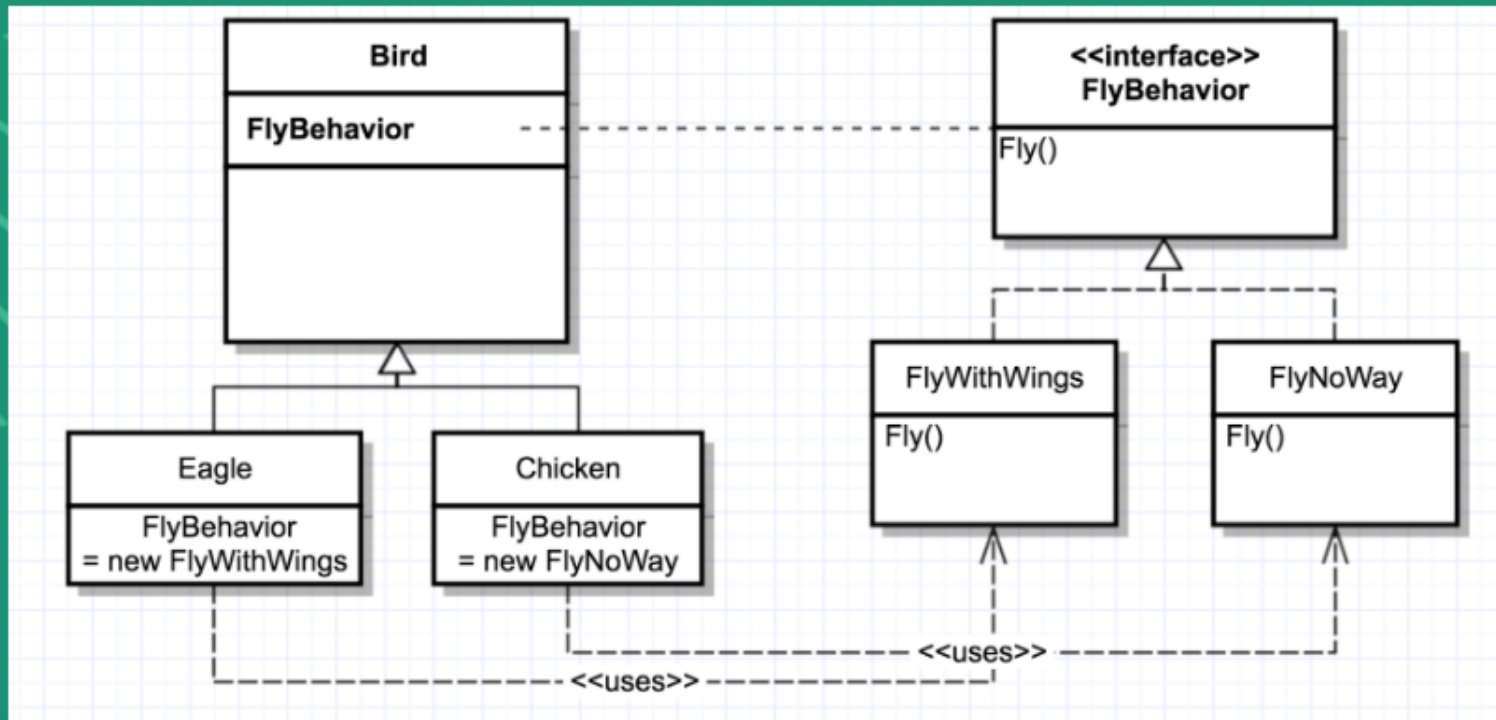
알고리즘 군을 정의하고
각각을 캡슐화하여 교환할 수 있도록 하는 패턴



Example

Example

알고리즘 군을 정의하고
각각을 캡슐화하여 교환할 수 있도록 하는 패턴



Abstract Factory

인터페이스를 이용하여 서로 연관되거나 의존하는 객체를 구상 클래스를 지정하지 않고 생성하게 하는 패턴



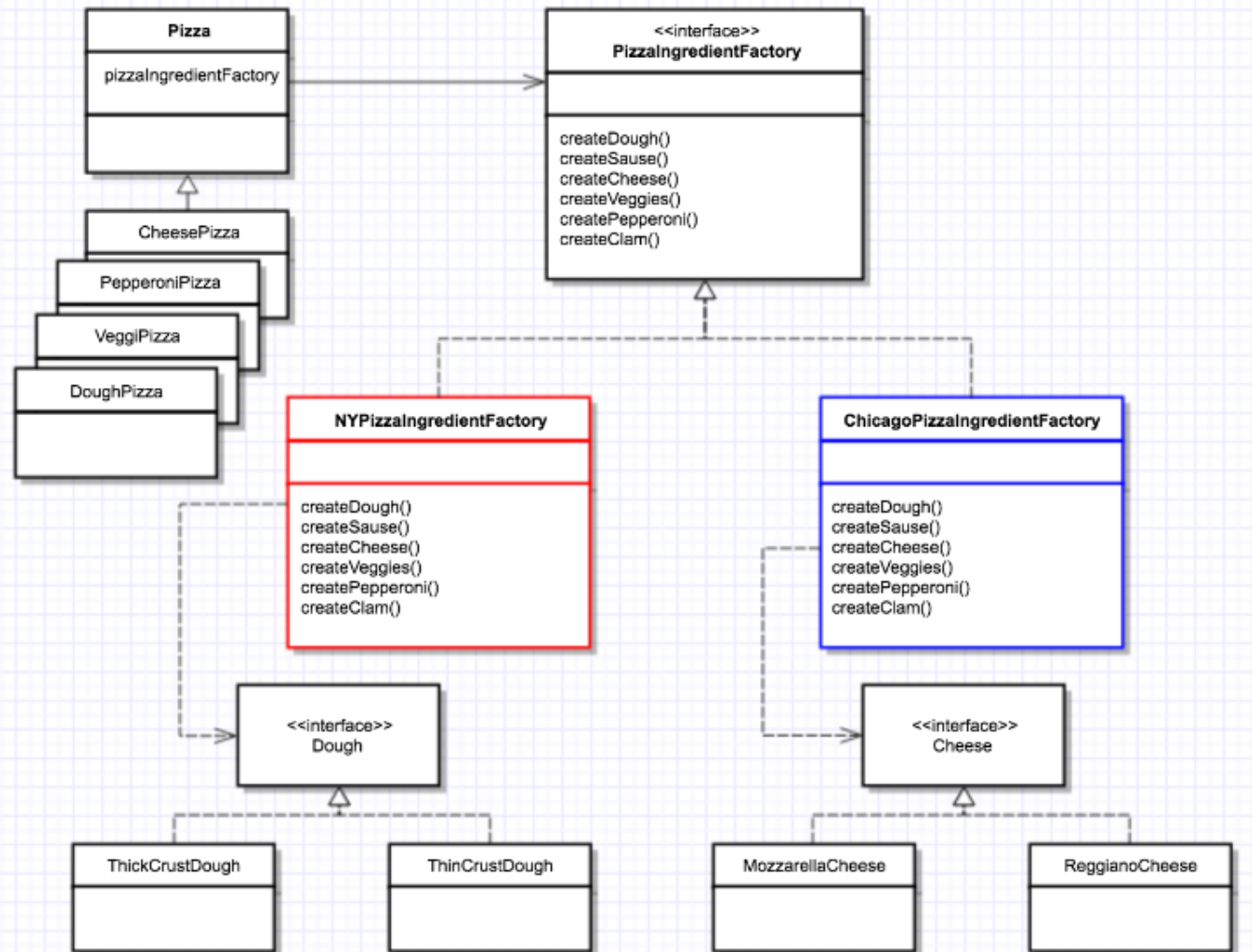
{abstract}

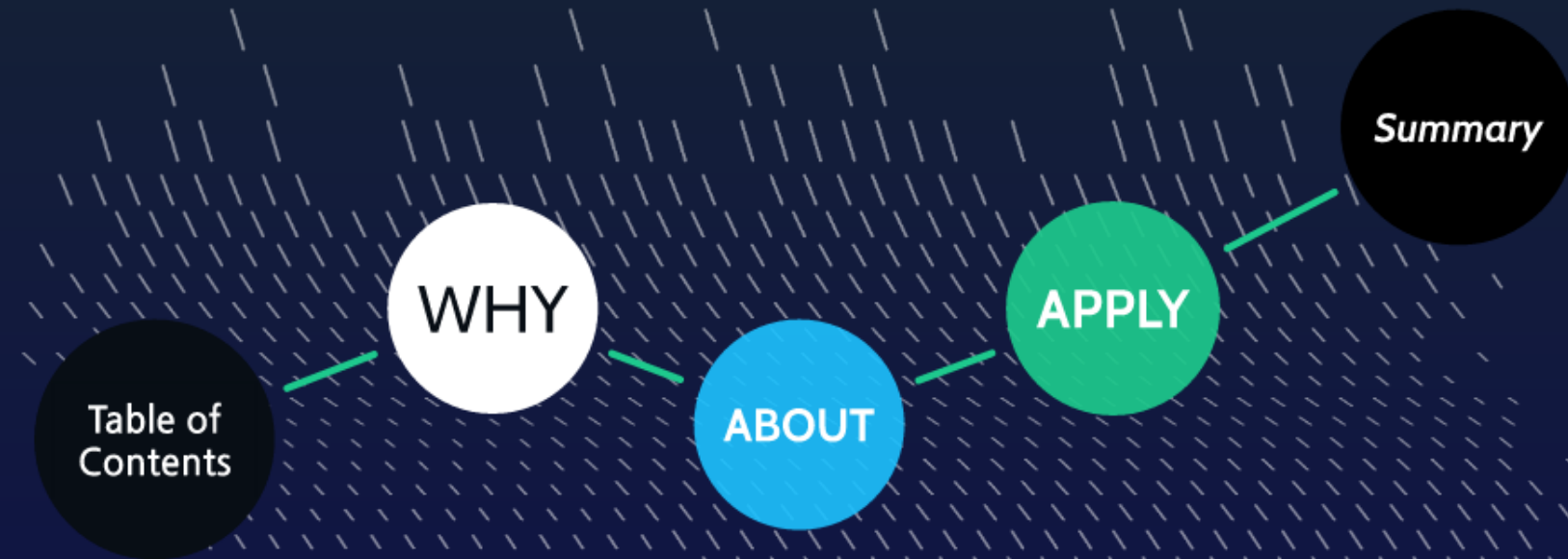
Example

Example

인터페이스를 이용하여
서로 연관되거나 의존하는 객체를
구상 클래스를 지정하지 않고
생성하게 하는 패턴

Head First Design Pattern 195.p



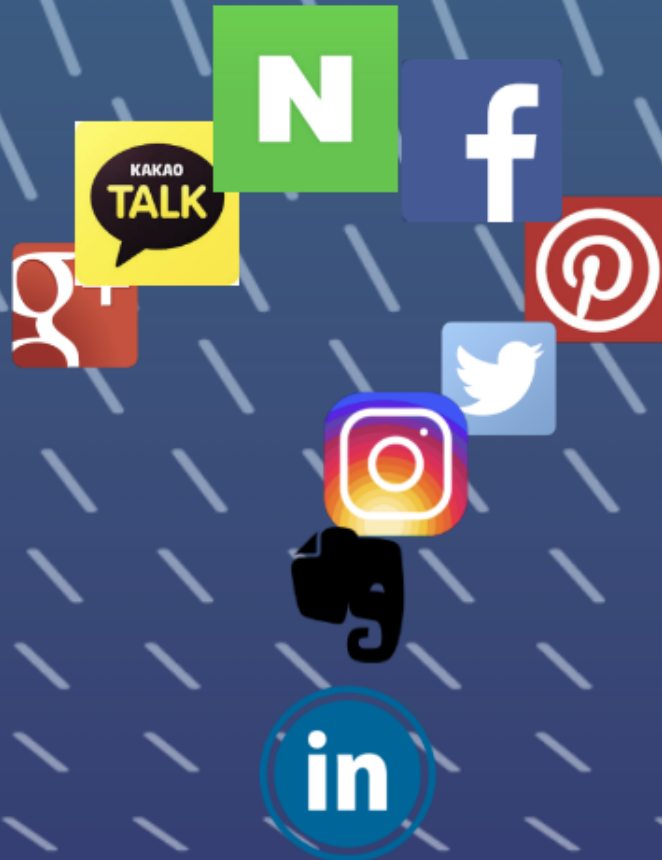


Design Pattern

네버레스트



OAuth 2.0 Provider 확장시..



APPLY Before

LoginController

- NaverLoginService
- GoogleLoginService
-
- N-th LoginService

NaverLoginService

- GoogleLoginService

- FacebookLoginService

- KakaoLoginService

- N-th LoginService

- private fields (apiKey, apiSecret...)

- login/getProfile 관련 메소드

APPLY Before

LoginController

- NaverLoginService
- GoogleLoginService
-
- N-th LoginService

NaverLoginS

- GoogleLog

- FacebookLo

- KakaoLoginService

N-th LoginService

- private fields (apiKey, apiSecret...)

- login/getProfile 관련 메소드

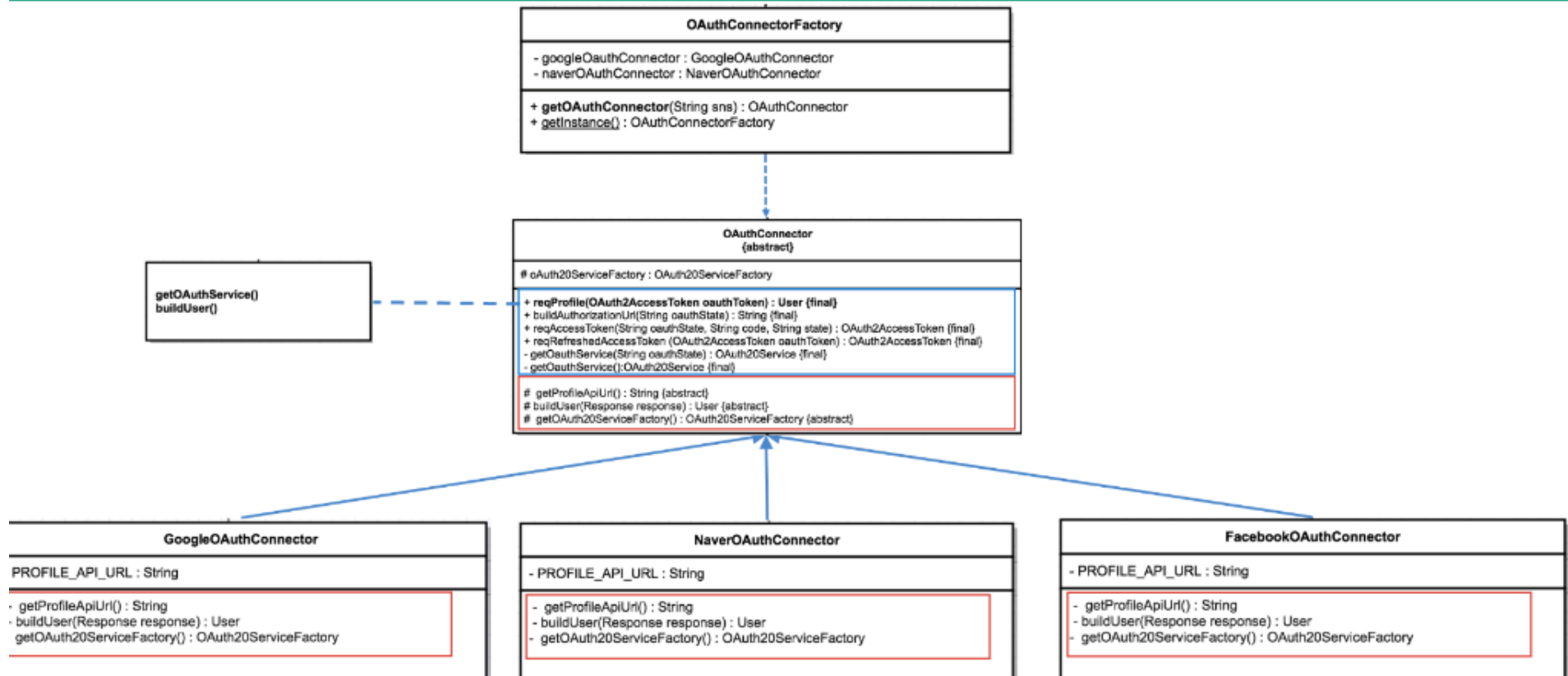
OCP

Apply After

*Template
method
pattern*

*Abstract
Factory
pattern*

Template method pattern





OAuthConnector {abstract}

OAuth2ServiceFactory : OAuth2ServiceFactory

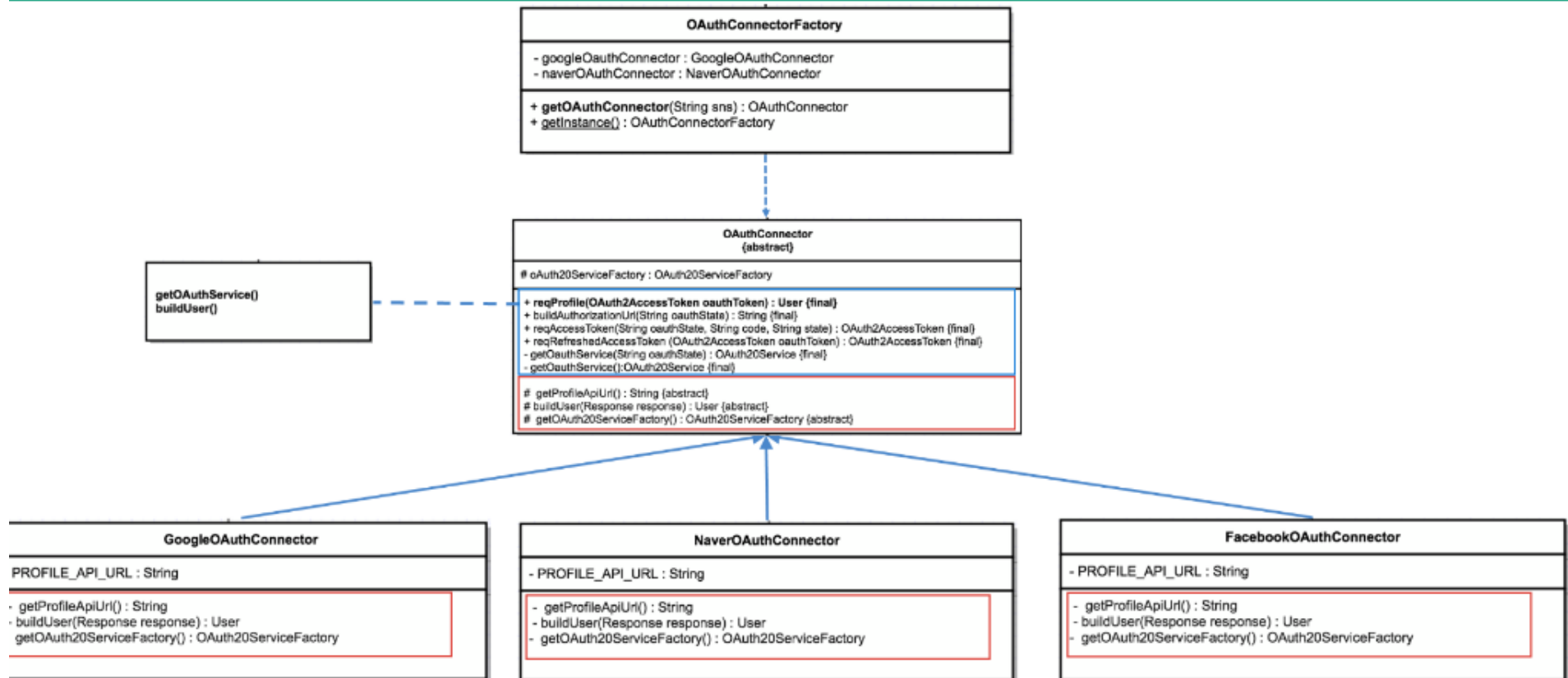
+ reqProfile(OAuth2AccessToken oauthToken) : User {final}
+ buildAuthorizationUrl(String oauthState) : String {final}
+ reqAccessToken(String oauthState, String code, String state) : OAuth2AccessToken {final}
+ reqRefreshedAccessToken (OAuth2AccessToken oauthToken) : OAuth2AccessToken {final}
- getOAuthService(String oauthState) : OAuth2Service {final}
- getOAuthService():OAuth2Service {final}

getProfileApiUrl() : String {abstract}
buildUser(Response response) : User {abstract}
getOAuth2ServiceFactory() : OAuth2ServiceFactory {abstract}

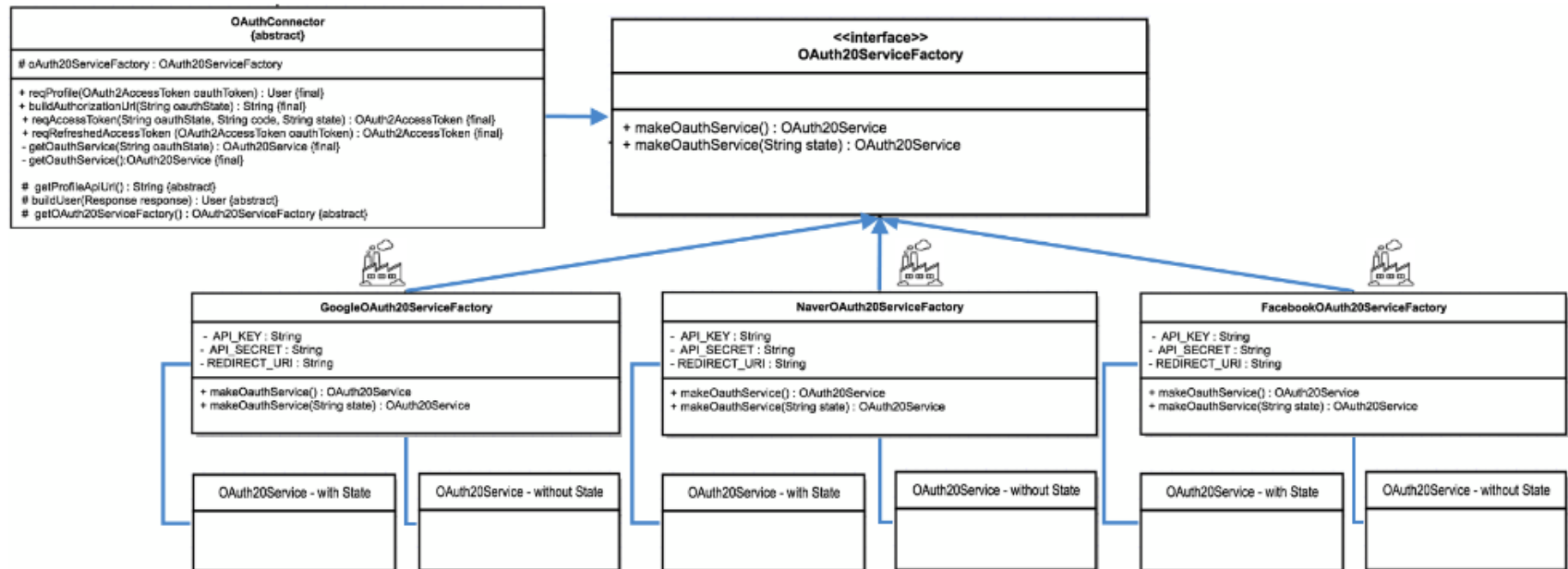


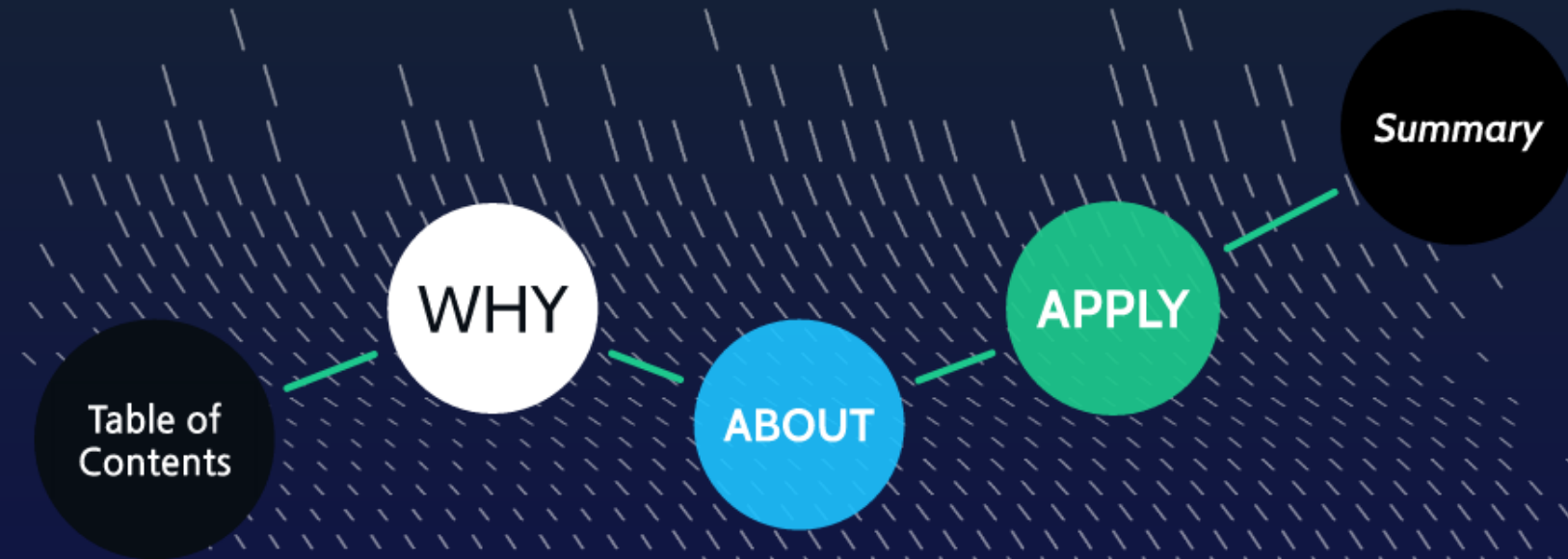


Template method pattern



Abstract Factory pattern





Design Pattern

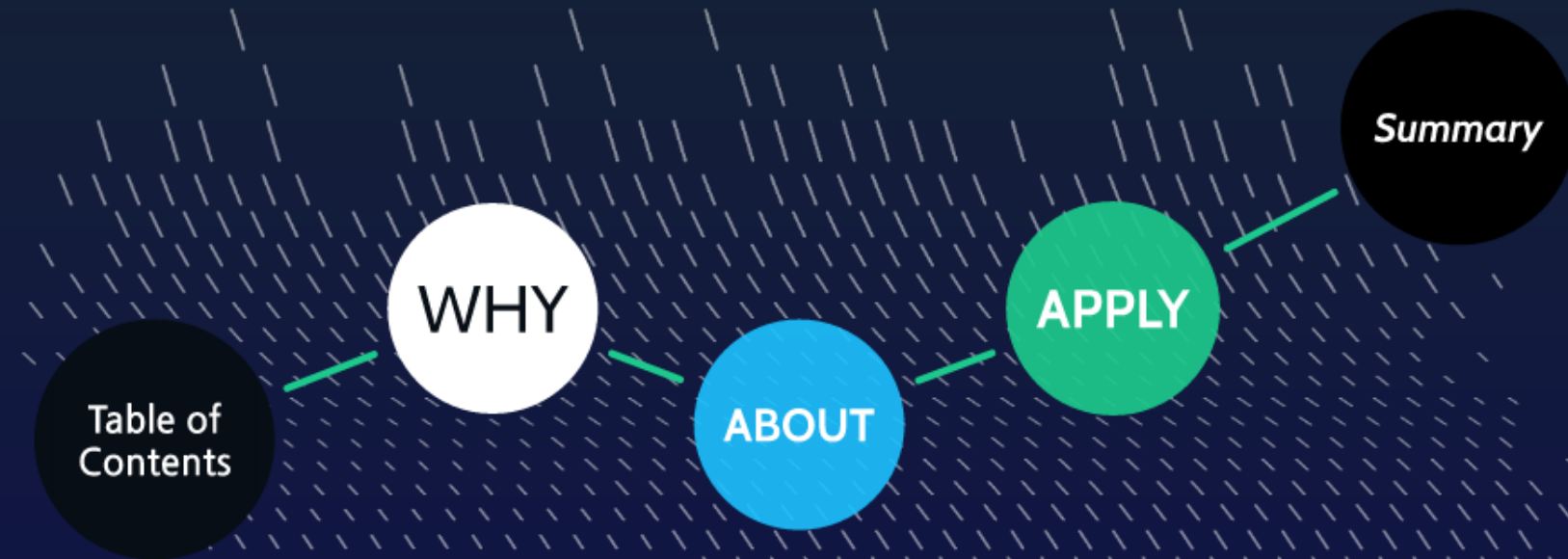
네버리스트

Summary

반복되는 문제 해결을 위한 리팩토링에서 출발

변화의 시기가 다른 코드의 분리

정적인 구조보다는 패턴의 의도가 중요



Design Pattern

네버리스트