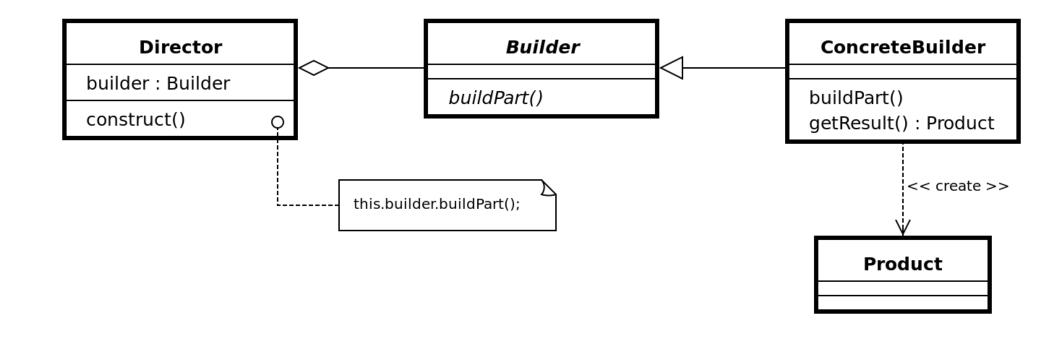
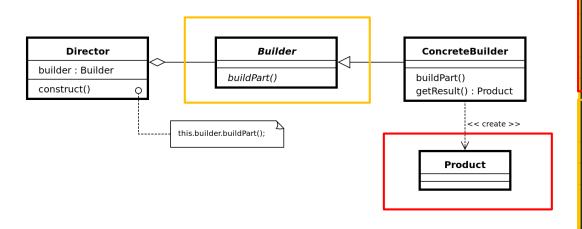
C# 빌더패턴

빌더 패턴

• 복합 객체의 생성 과정과 표현 방법을 분리하여 동일한 생성 절차에서 서로 다른 표현 결과를 만들 수 있게 하는 패턴

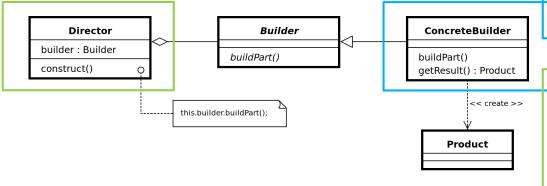


빌더 패턴의 구현



```
⊟class Pizza
     string dough;
     string sauce;
     string topping;
     public Pizza() { }
     public void SetDough(string d) { dough = d; }
     public void SetSauce(string s) { sauce = s; }
     public void SetTopping(string t) { topping = t; }
 //Abstract Builder
⊢abstract class PizzaBuilder
     protected Pizza pizza;
     public PizzaBuilder() { }
     public Pizza GetPizza() { return pizza; }
     public void CreateNewPizza() { pizza = new Pizza(); }
     public abstract void BuildDough();
     public abstract void BuildSauce();
     public abstract void BuildTopping();
```

빌더 패턴의 구현



```
//Concrete Builder
class HawaiianPizzaBuilder : PizzaBuilder
    public override void BuildDough() { pizza.SetDough("cross"); }
    public override void BuildSauce() { pizza.SetSauce("mild"); }
    public override void BuildTopping() { pizza.SetTopping("ham+pineapple"); }
 //Concrete Builder
class SpicyPizzaBuilder : PizzaBuilder
   public override void BuildDough() { pizza.SetDough("pan baked"); }
   public override void BuildSauce() { pizza.SetSauce("hot"); }
    public override void BuildTopping() { pizza.SetTopping("pepparoni+salami");
 /** "Director" */
class Waiter
   private PizzaBuilder pizzaBuilder;
    public void SetPizzaBuilder(PizzaBuilder pb) { pizzaBuilder = pb; }
   public Pizza GetPizza() { return pizzaBuilder.GetPizza(); }
    public void ConstructPizza()
        pizzaBuilder.CreateNewPizza();
        pizzaBuilder.BuildDough();
        pizzaBuilder.BuildSauce();
        pizzaBuilder.BuildTopping();
```