DP- Factory Method

2013/10/16 NNNN

今日沒有GirlFriend

Create Object...

```
public class Test {

public static void main(String[] args) {

   String type="馬尾";

   GirlFriend gf;

   if(type.equals("馬尾")){
       gf = new 馬尾GirlFriend();
   }else if(type.equals("長髮")){
       gf = new 長髮GirlFriend();
   }else {
       gf = new 會用GIthubGirlFriend();
   }
   gf.haveFun();
}
```

Goal

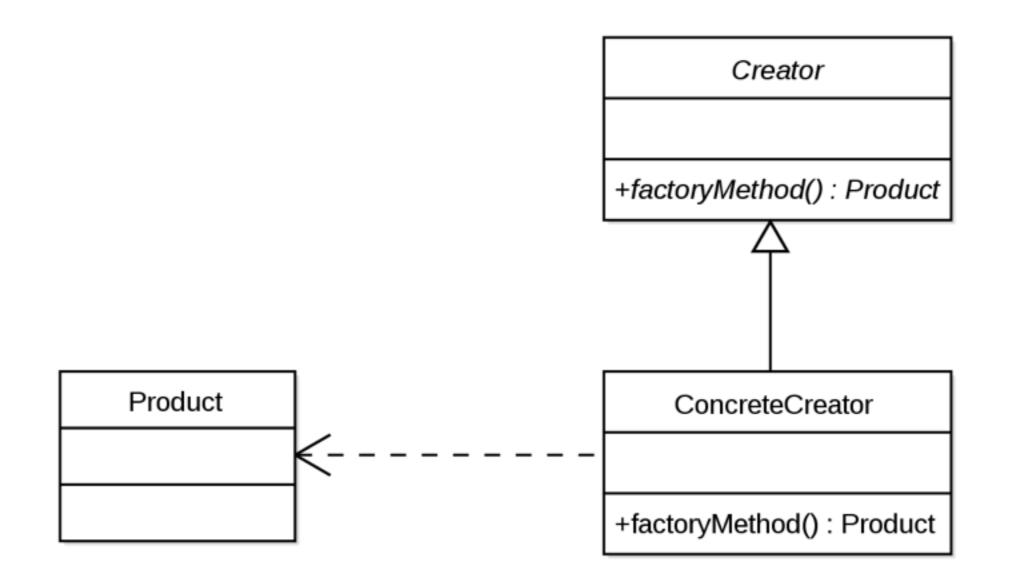
 Define an interface for creating an object, but let the classes that implement the interface decide which class to instantiate. The Factory method lets a class defer instantiation to subclasses.

Wik

Factory Pattern

 define an interface for creating an object, lets subclasses decide which class to instantiate.

- Roles in Factory Method
 - Product
 - Concrete Product
 - Creator
 - ConcreteCreator



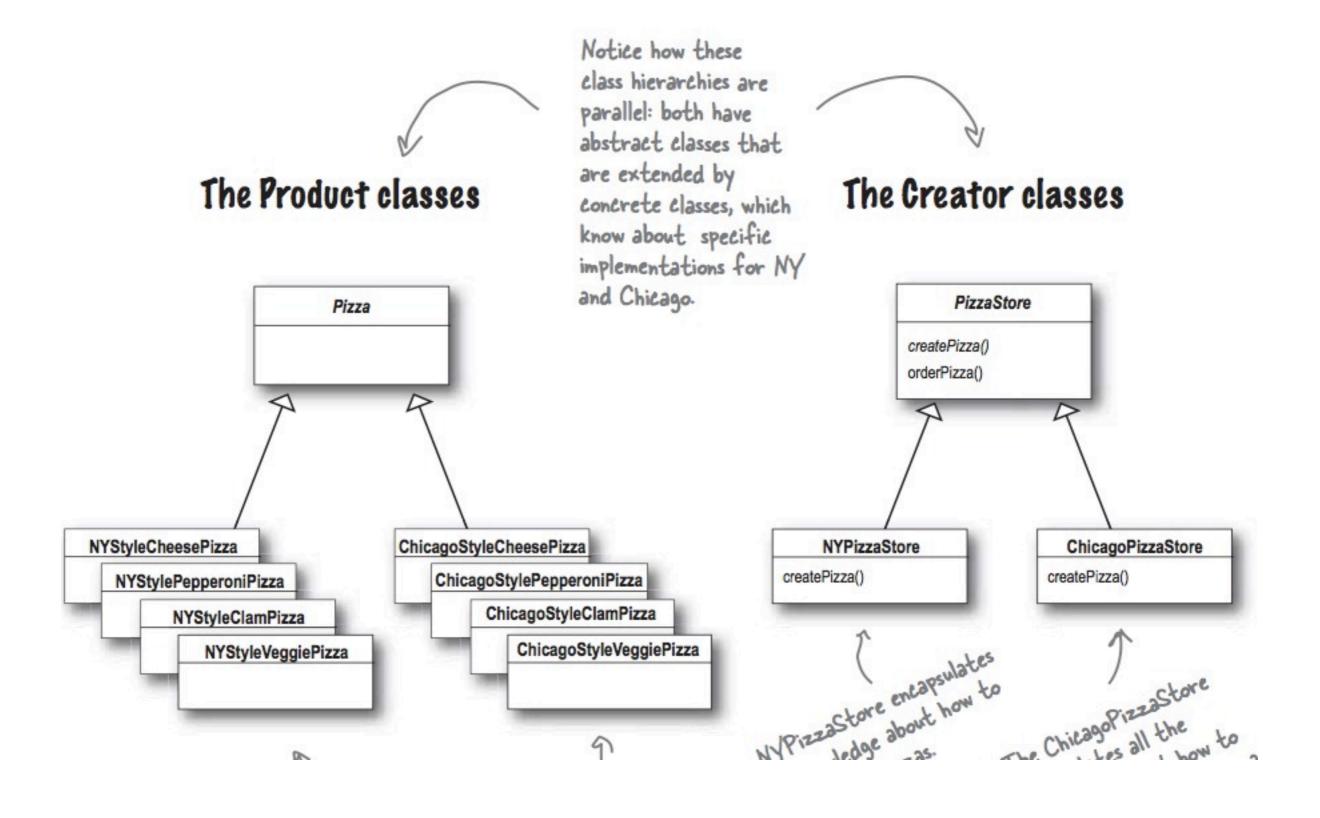
```
id main(String[] args) {
-generated method stub
 = GirlFriendFactory.;
                         S getDefault(): GirlFriend - GirlFriendFactory
                         © get會用GithubGirlFriend(): GirlFriend - GirlFrien
                         6<sup>S</sup> get長髮GirlFriend(): GirlFriend - GirlFriendFacto
                         6 get馬尾GirlFriend(): GirlFriend - GirlFriendFacto
                         oS class : Class<gf.GirlFriendFactory>
                                        Press 'X/' to show Template Proposals
```

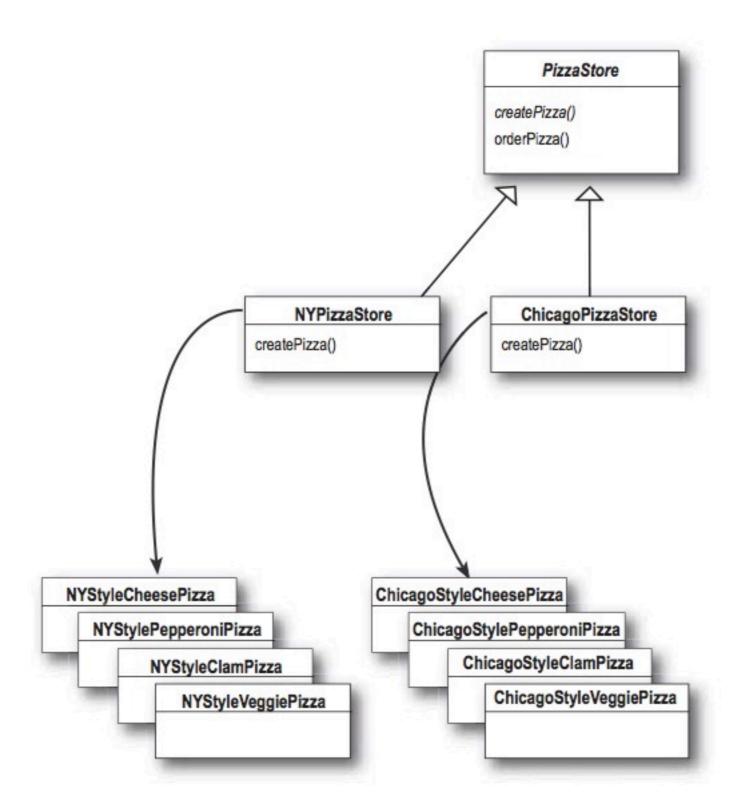
You can do lots of things in factory

Encapsulation...

Abstract Factory

 It provides a way to encapsulate a group of individual factories that have a common theme without specifying their concrete classes.





DEMO

Reference

- http://blog.monkeypotion.net/gameprog/pattern/abstract-factory
- http://blog.monkeypotion.net/gameprog/pattern/factory-method