Another perspective: parallel class hierarchies

We've seen that the factory method provides a framework by supplying an orderPizza() method that is combined with a factory method. Another way to look at this pattern as a framework is in the way it encapsulates product knowledge into each creator.

Let's look at the two parallel class hierarchies and see how they relate:

Notice how these class hierarchies are parallel: both have abstract classes that are extended by concrete classes, which know about specific implementations for NY and Chicago.

The Product classes

Pizza

NYStyleCheesePizza
NYStylePepperoniPizza
NYStyleClamPizza
NYStyleVeggiePizza

ChicagoStyleCheesePizza
ChicagoStylePepperoniPizza
ChicagoStyleClamPizza
ChicagoStyleVeggiePizza

The Creator classes

PizzaStore
createPizza()
orderPizza()

NYPizzaStore
createPizza()

ChicagoPizzaStore
createPizza()

The NYPizzaStore encapsulates all the knowledge about how to make NY style pizzas.

The ChicagoPizzaStore encapsulates all the knowledge about how to make Chicago style pizzas.

The factory method is the key to encapsulating this knowledge.

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