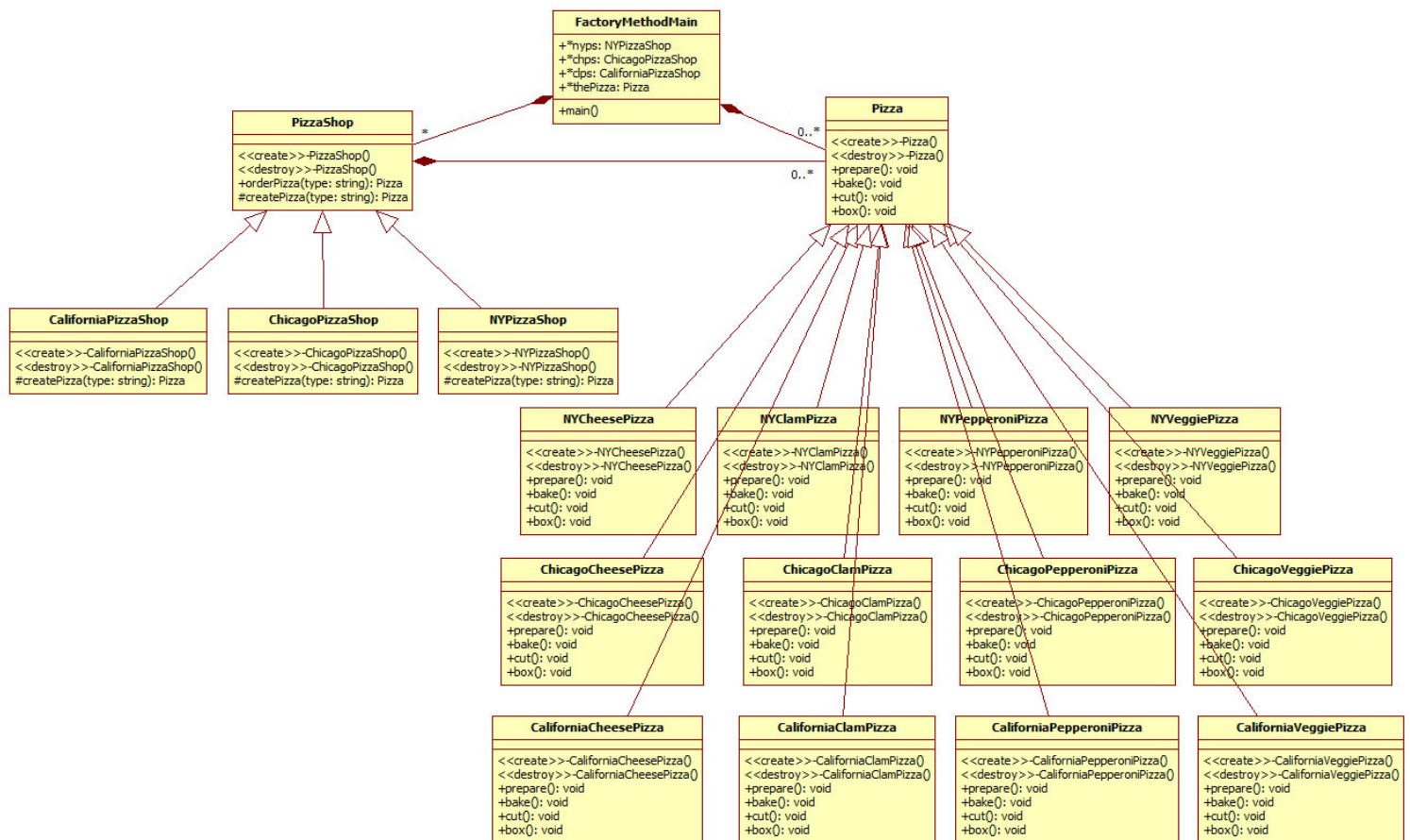


Factory Method Design Pattern

GoF Statement: Defines an interface for creating an object, but lets subclasses decide which class to instantiate. Factory Method lets a class defer instantiation to subclasses.

Category: Creational

UML Diagram:



Description of the Demonstration:

The parent class, **PizzaShop**, defines an interface consisting of two functions. The first, **PizzaShop::orderPizza**, is used by "customers" to place orders for a particular type of pizza (cheese, clam, veggie, or Pepperoni). Each subclass of **PizzaShop** (**NYPizzaShop**, **ChicagoPizzaShop**, and **CaliforniaPizzaShop**) must then override the virtual Factory Method function **PizzaShop::createPizza()** in order to create its own particular style of cheese, clam, veggie, or Pepperoni pizza. Following the Factory Method Design Pattern the class **PizzaShop** defers instantiation of pizzas to its subclasses.