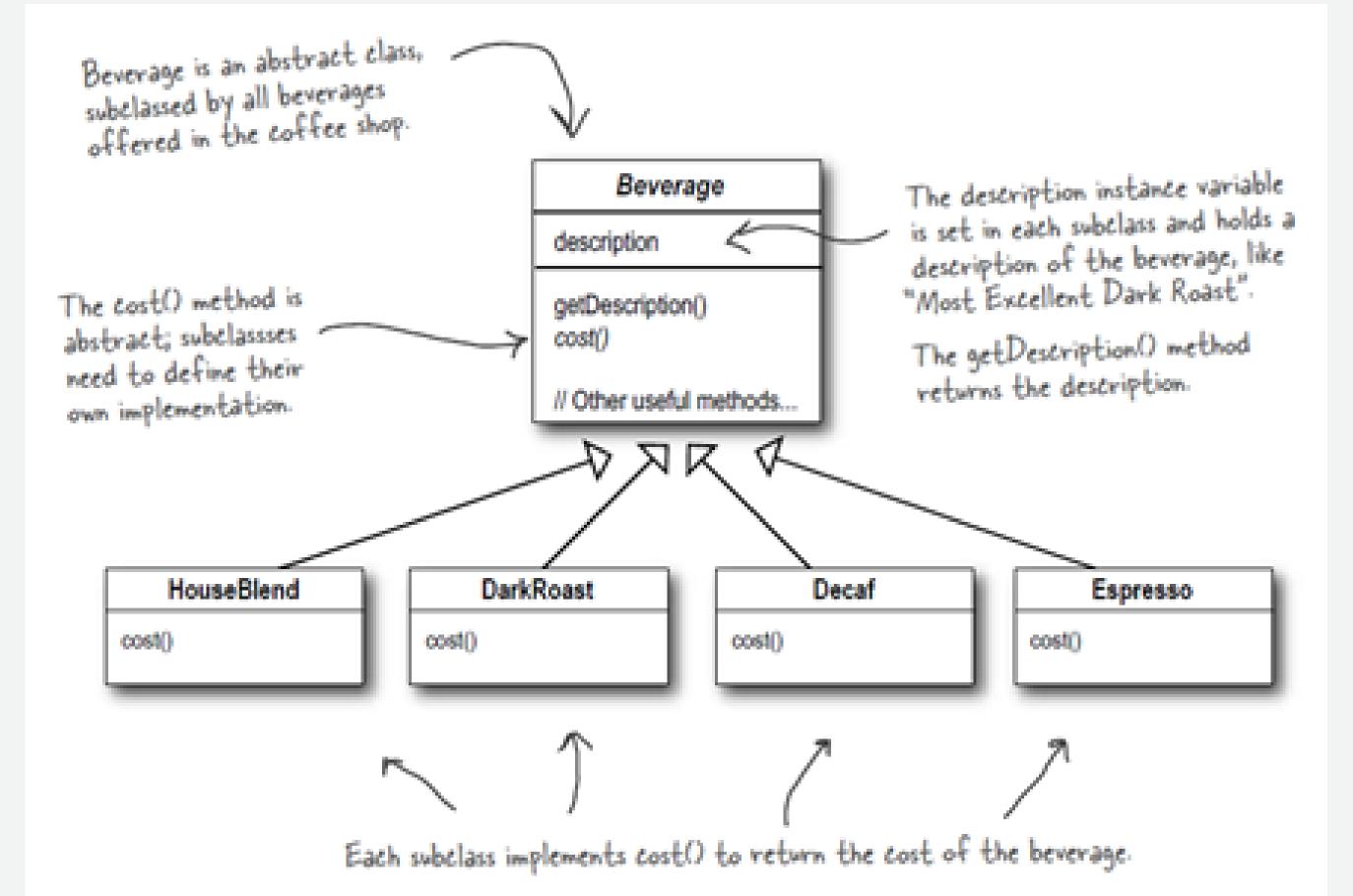
THE DECORATOR PATTERN

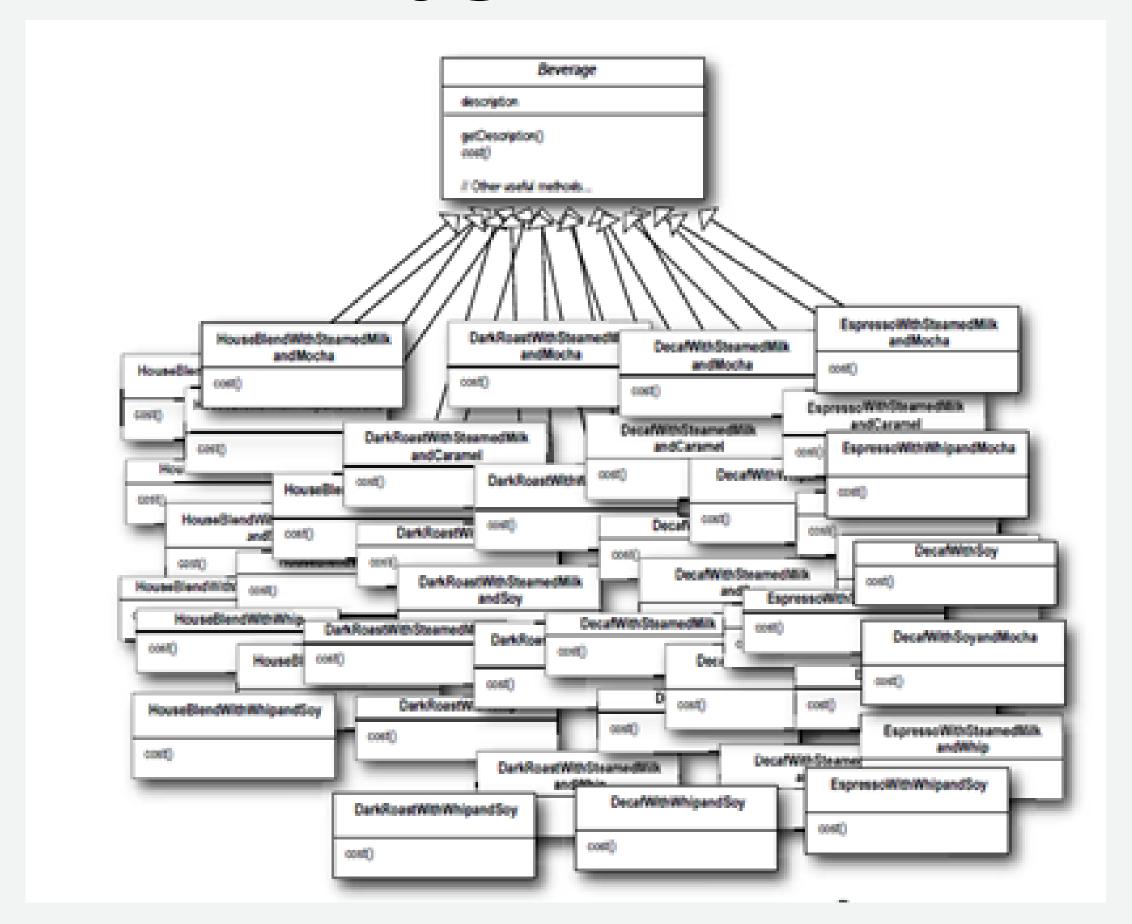
TRẦN HỮU BÁCH - ĐỖ DUY HIỆP



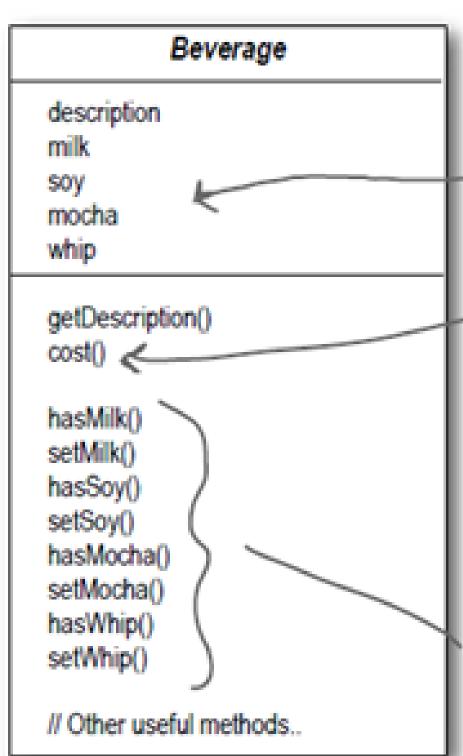
SCHEMA FOR THE COFFEE SHOP



PROBLEM



FIRST IDEA



New boolean values for each condiment.

Now we'll implement cost() in Beverage (instead of keeping it abstract), so that it can calculate the costs associated with the condiments for a particular beverage instance. Subclasses will still override cost(), but they will also invoke the super version so that they can calculate the total cost of the basic beverage plus the costs of the added condiments.

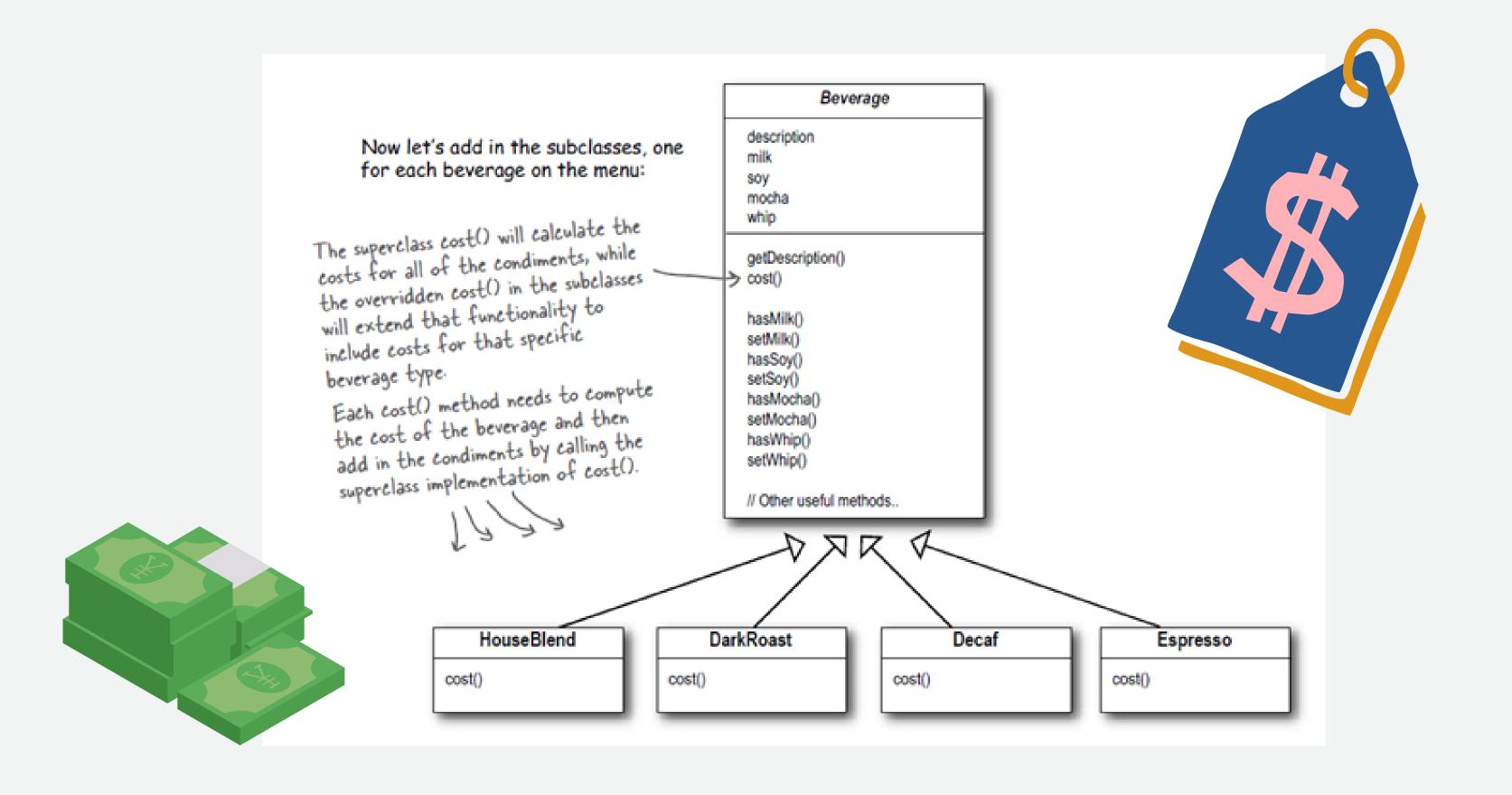
These get and set the boolean values for the condiments.







COMPUTE COST



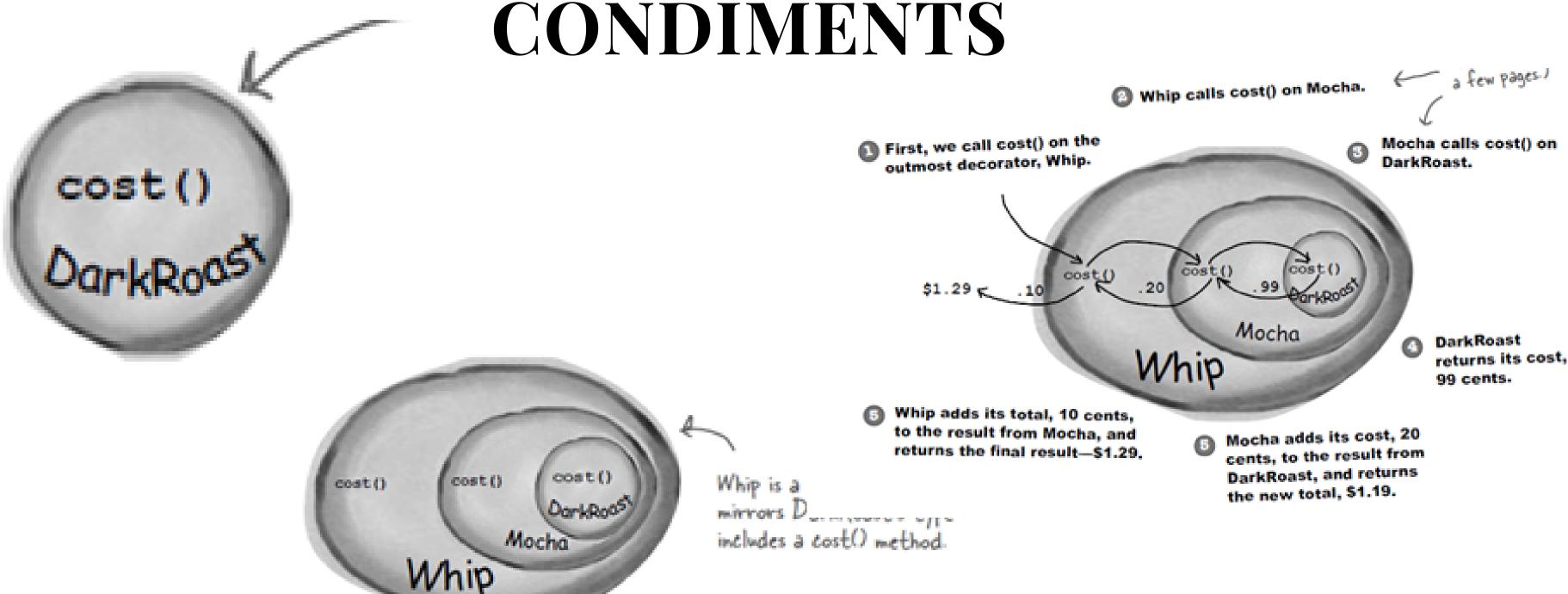
COMPUTE COST





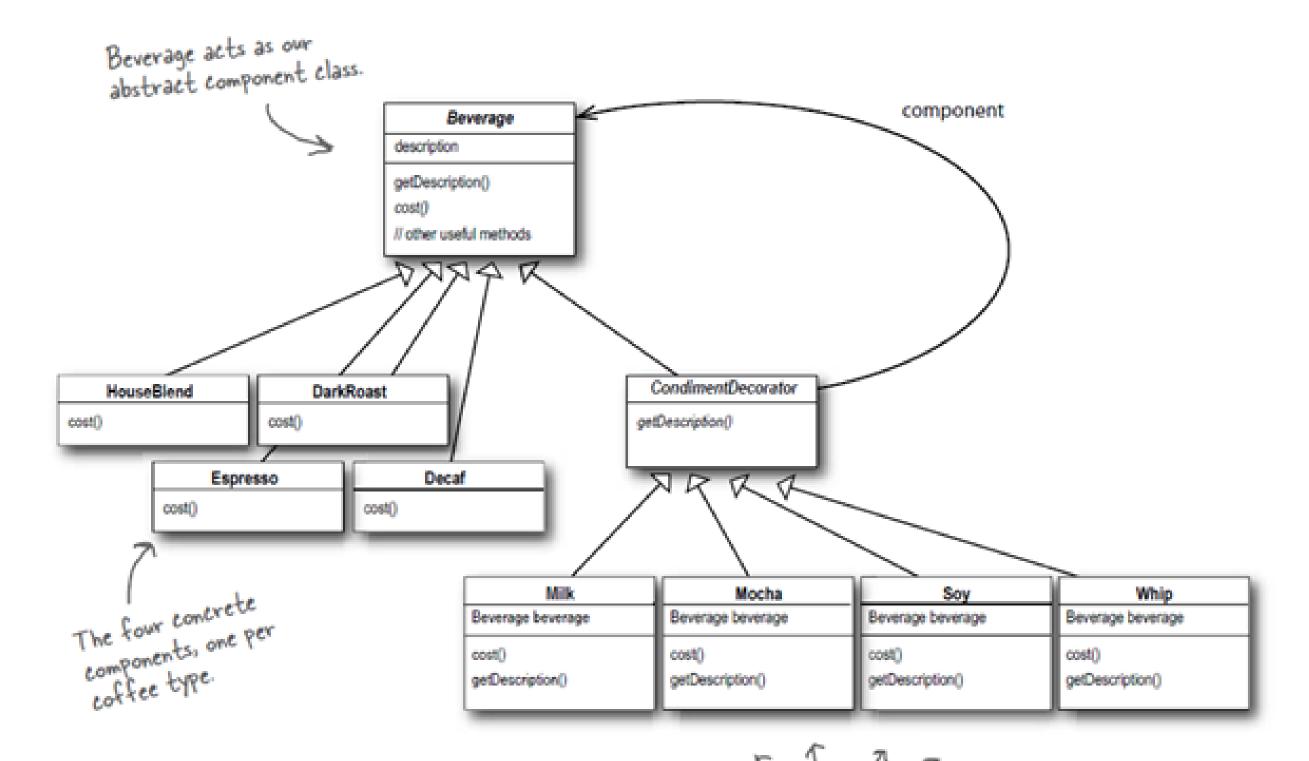


BEVERAGE AND "DECORATE" IT WITH THE CONDIMENTS



So, a DarkRoast wrapped in Mocha and Whip is still a Beverage and we can do anything with it we can do with a DarkRoast, including call its cost() method.

THE DECORATOR PATTERN



And here are our condiment decorators; notice they need to implement not only cost() but also getDescription(). We'll see why in a moment...

OUR MENU

Starbuzz C	offee
Coffees House Blend Dark Roast Decaf Espresso	.89 .99 1.05 1.99
Condiments Steamed Milk Mocha Soy Whip	.10 .20 .15