8/19/2020 Refused Bequest









分 / Refactoring / Code Smells / Object-Orientation Abusers

Refused Bequest

Signs and Symptoms

If a subclass uses only some of the methods and properties inherited from its parents, the hierarchy is off-kilter. The unneeded methods may simply go unused or be redefined and give off exceptions.



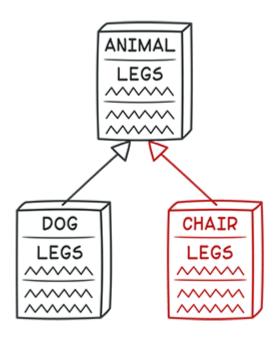




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Reasons for the Problem

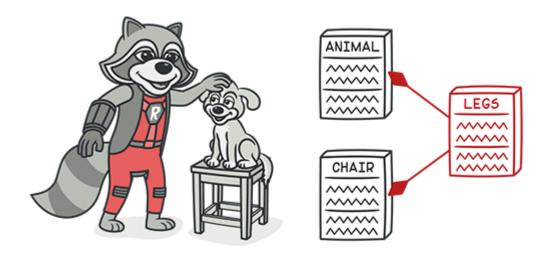
Someone was motivated to create inheritance between classes only by the desire to reuse the code in a superclass. But the superclass and subclass are completely different.



Treatment

- If inheritance makes no sense and the subclass really does have nothing in common with the superclass, eliminate inheritance in favor of **Replace Inheritance with Delegation**.
- If inheritance is appropriate, get rid of unneeded fields and methods in the subclass. Extract all fields and methods needed by the subclass from the parent class, put them in a new subclass, and set both classes to inherit from it (**Extract Superclass**).

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Payoff

Improves code clarity and organization. You will no longer have to wonder why the Dog class is inherited from the Chair class (even though they both have 4 legs).

