

Decorator Pattern

(Podrea Vesper) 가 .

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: Galahad HP .

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```
public class Knight {
    protected int hp;
    private Knight decorated;

    public Knight() { }

    public Knight(Knight decorated) {
        this.decorated = decorated;
    }

    public void attackWithSword() {
        if (decorated != null) decorated.attackWithSword();
    }

    public void attackWithBow() {
        if (decorated != null) decorated.attackWithBow();
    }

    public void blockWithShield() {
        if (decorated != null) decorated.blockWithShield();
    }
}
```

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 : Knight hp(hit point)
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```
public class KnightWithPowerArmor extends Knight {
    public KnightWithPowerArmor(Knight decorated) {
        super(decorated);
    }

    @Override
    public void blockWithShield() {
        super.blockWithShield();
        Armor armor = new PowerArmor();
        armor.block();
    }
}

public class KnightWithAdditionalHP extends Knight {
    public KnightWithAdditionalHP(Knight decorated) {
        super(decorated);
        this.hp += 50;
    }
}
```

: 2 .
Galahad , hp 50 .

```
Knight superKnight =
    new KnightWithAdditionalHP(
        new KnightWithPowerArmor(
            new Galahad()));
```

```
(def galahad {:name "Galahad"
```

```

        :speed 1.0
        :hp 100
        :attack-bow-fn attack-with-bow
        :attack-sword-fn attack-with-sword
        :block-fn block-with-shield})

(defn make-knight-with-more-hp [knight]
  (update-in knight [:hp] + 50))

(defn make-knight-with-power-armor [knight]
  (update-in knight [:block-fn]
    (fn [block-fn]
      (fn []
        (block-fn)
        (block-with-power-armor))))))

;; create the knight
(def superknight (-> galahad
  make-knight-with-power-armor
  make-knight-with-more-hp)

```

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: , (make-knight-with-power-armor) .

```

Plugin Backlinks:

From:

<http://moro.kr/> - Various Ways

Permanent link:

<http://moro.kr/open/decorator-pattern>

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