

Proxy Pattern

(Deren Bart) . , .

: ?

: , 가 API .

```
interface IBar {
    void makeDrink(Drink drink);
}

interface Drink {
    List<Ingredient> getIngredients();
}

interface Ingredient {
    String getName();
    double getAmount();
}
```

: , IBar 가

가 .

: 가 가 ?

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: IBar (standard) ,

ProxiedBar .

```
class ProxiedBar implements IBar {
    BarDatabase bar;
    IBar standardBar;

    public void makeDrink(Drink drink) {
        standardBar.makeDrink(drink);
        for (Ingredient i : drink.getIngredients()) {
            bar.subtract(i);
        }
    }
}
```

: StandardBar ProxiedBar .

```

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: , 가 가
: ?
: 가 StandardBar
: BarDatabase
:
: ...
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: , 가
:
: IBar , IBar 가
: . make-drink , bar subtract-ingredients
:
: ?
: ,

```

```

;; interface
(defprotocol IBar
  (make-drink [this drink]))

;; Bart's implementation
(deftype StandardBar []
  IBar
  (make-drink [this drink]
    (println "Making drink " drink)
    :ok))

;; our implementation
(deftype ProxiedBar [db ibar]
  IBar
  (make-drink [this drink]
    (make-drink ibar drink)
    (subtract-ingredients db drink)))

;; this how it was before
(make-drink (StandardBar.)
  {:name "Manhattan"
   :ingredients [["Bourbon" 75] ["Sweet Vermouth" 25] ["Angostura" 5]]})

;; this how it becomes now
(make-drink (ProxiedBar. {:db 1} (StandardBar.))

```

```
{:name "Manhattan"
 :ingredients [{"Bourbon" 75} {"Sweet Vermouth" 25} {"Angostura" 5}]})
```

```
:
:      가
:      ,      reify      가      ,      runtime
:      class      가 ?
:      .
```

```
(reify IBar
 (make-drink [this drink]
  ;; implementation goes here
 ))
```

```
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```

- [Clojure Design Patterns](#)

From:
<https://moro.kr/> - **Various Ways**

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<https://moro.kr/open/proxy-pattern>

Last update: **2021/11/22 14:07**

