

Chain Of Responsibility Pattern

“A Profit NY”

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```
public abstract class Filter {
    protected Filter nextFilter;

    abstract void process(String message);

    public void setNextFilter(Filter nextFilter) {
        this.nextFilter = nextFilter;
    }
}
```

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```
class LogFilter extends Filter {
    @Override
    void process(String message) {
        Logger.info(message);
        if (nextFilter != null) nextFilter.process(message);
    }
}

class ProfanityFilter extends Filter {
    @Override
    void process(String message) {
        String newMessage = message.replaceAll("fuck", "f*ck");
        if (nextFilter != null) nextFilter.process(newMessage);
    }
}

class RejectFilter extends Filter {
```

```

@Override
void process(String message) {
    System.out.println("RejectFilter");
    if (message.startsWith("[A PROFIT NY]")) {
        if (nextFilter != null) nextFilter.process(message);
    } else {
        // reject message - do not propagate processing
    }
}

class StatisticsFilter extends Filter {
    @Override
    void process(String message) {
        Statistics.addUsedChars(message.length());
        if (nextFilter != null) nextFilter.process(message);
    }
}

```

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```

Filter rejectFilter = new RejectFilter();
Filter logFilter = new LogFilter();
Filter profanityFilter = new ProfanityFilter();
Filter statsFilter = new StatisticsFilter();

rejectFilter.setNextFilter(logFilter);
logFilter.setNextFilter(profanityFilter);
profanityFilter.setNextFilter(statsFilter);

String message = "[A PROFIT NY] What the fuck?";
rejectFilter.process(message);

```

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```

;; define filters
(defn log-filter [message]
  (logger/log message)
  message)

(defn stats-filter [message]
  (stats/add-used-chars (count message))
  message)

(defn profanity-filter [message]
  (clojure.string/replace message "fuck" "f*ck"))

(defn reject-filter [message]

```

```
(if (.startsWith message "[A Profit NY]")
    message))
```

```
:      some→
```

```
(defn chain [message]
  (some-> message
    reject-filter
    log-filter
    stats-filter
    profanity-filter))
```

```
      :      ?      ,      if (nextFilter != null)
nextFilter.process()      가      . some→      setNext
      ,      .
      :      (composability)      .      가      some→      ?
      : reject-filter      .      가      ,      가 nil
some→      nil      .
      :      ?
      :      .
```

```
(chain "fuck") => nil
(chain "[A Profit NY] fuck") => "f*ck"
```

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```

```
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```

Plugin Backlinks:

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

Permanent link:
<http://moro.kr/open/chain-of-responsibility-pattern>

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