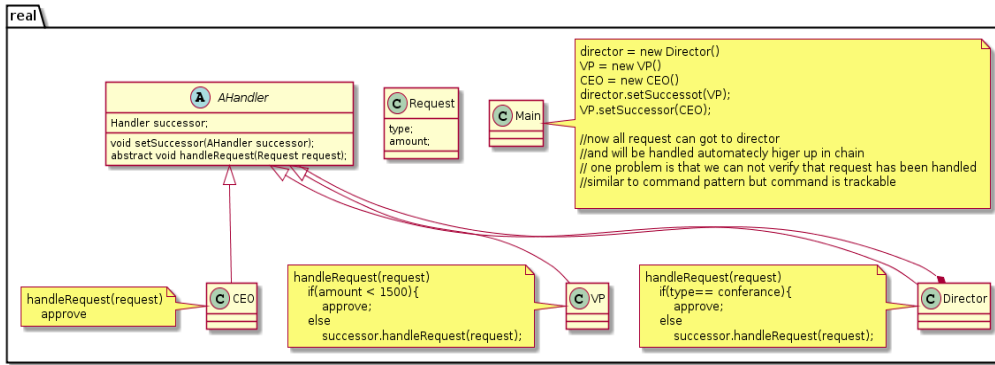
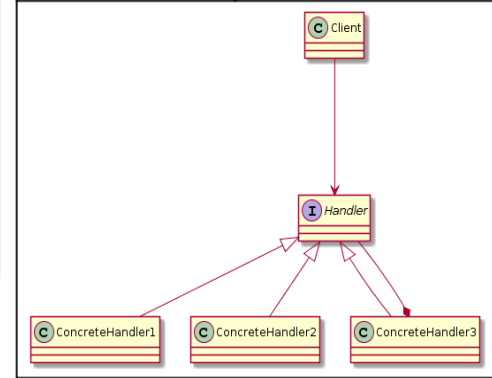


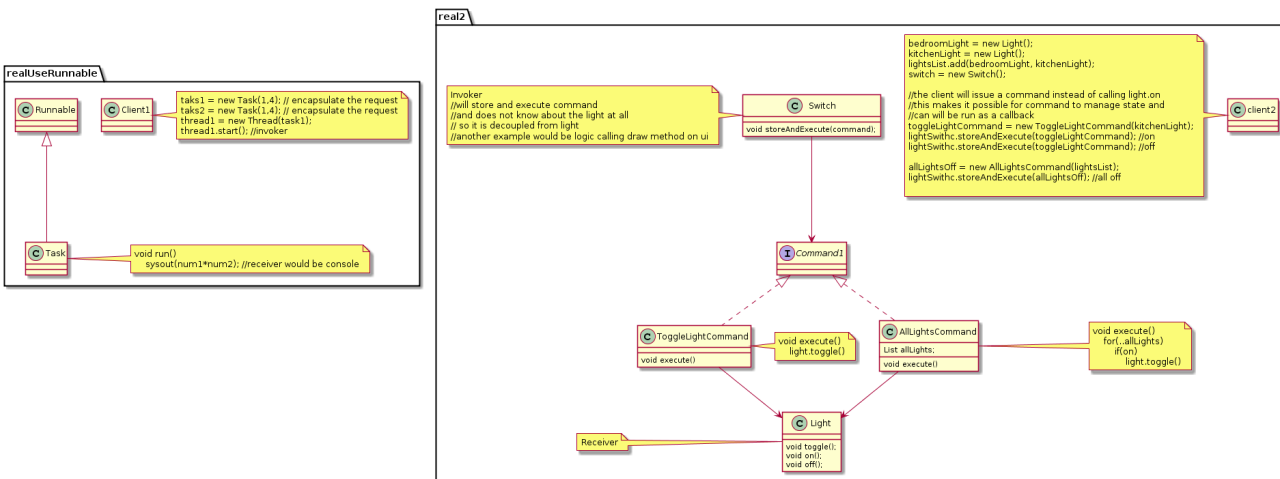
VisitorPattern



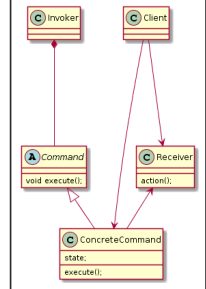
ChainOfResponsibility.pattern



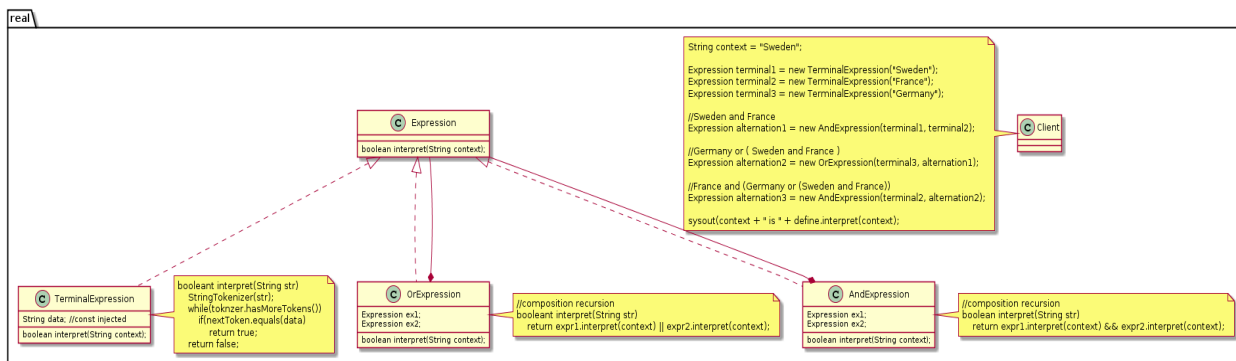
Command Pattern



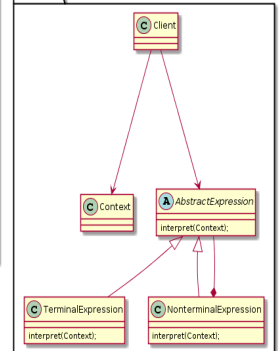
Command.pattern



Interpreter Pattern



abstract



Iterator Pattern

abstract

```
java util iterator
```

```
List<String> books = new ArrayList<>();
books.add("All good things");
...
Iterator<String> itr = books.iterator();
while(itr.hasNext())
    itr.next();
//NOTE: modifying the list, foreach cant do this
//also it works for all collections, a generic
//for loop using index will not (foreach will ofcourse)
itr.remove();
```

Client

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in this example Mediator does not know about colleagues, but that can be added in case they depend on each other in some way instead commands do not know about lights anymore

```
registerLight(light) -> lights.add(light);
toggleLight()
mediator.toggleLight();
turnOnAllLights()
for (lights)
    if (isOn())
        light.toggle();
```

```
LightMediator
List lights;
void registerLight(Light l);
void turnOnAllLights();
void turnOffAllLights();
void toggleLight();
```

```
Command
void execute();
```

```
AllLightsOnCommand
void execute();
```

```
ToggleLightCommand
void execute();
```

```
AllLightsOffCommand
void execute();
```

```
void execute()
med.toggleLight();
```

```
void execute()
med.turnOnAllLights();
```

```
void execute()
med.toggleLight();
```

```
void execute()
med.turnOnAllLights();
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void execute()
med.toggleLight();
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void execute()
med.turnOnAllLights();
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med.turnOnAllLights();
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void execute()
med.toggleLight();
```

abstract

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Mediator

Mediator

Mediator

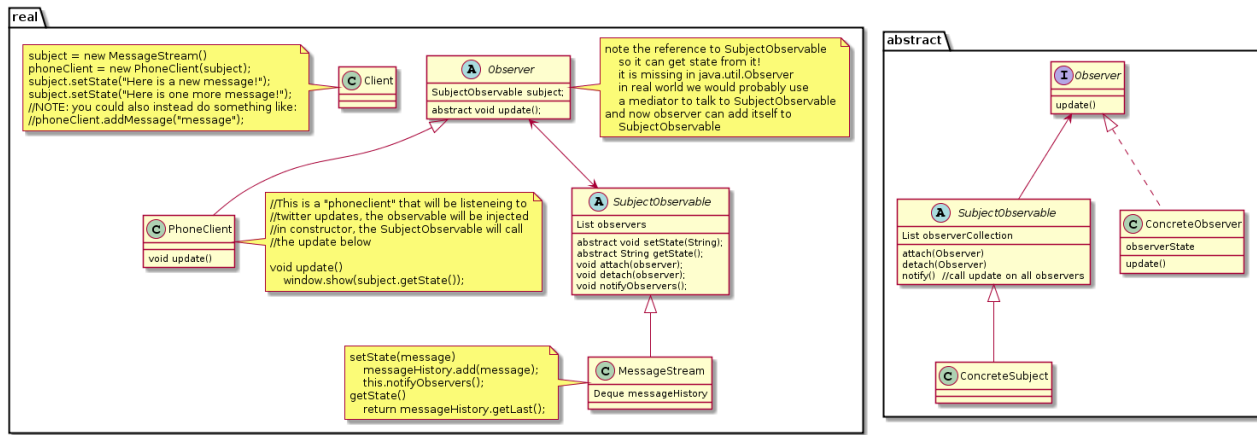
Mediator

Mediator

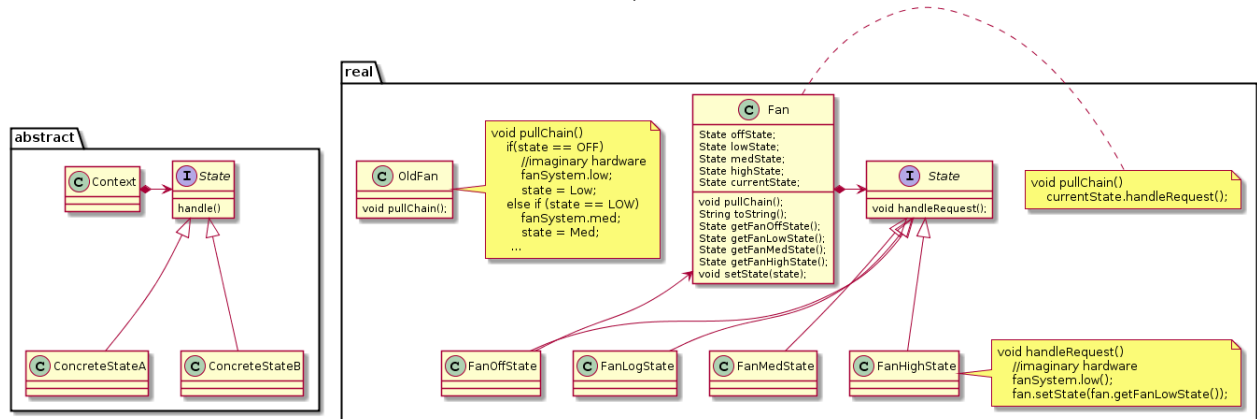
Mediator

Mediator

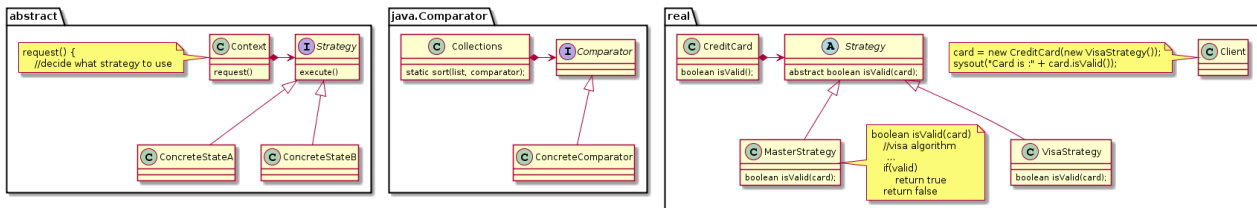
Observer pattern



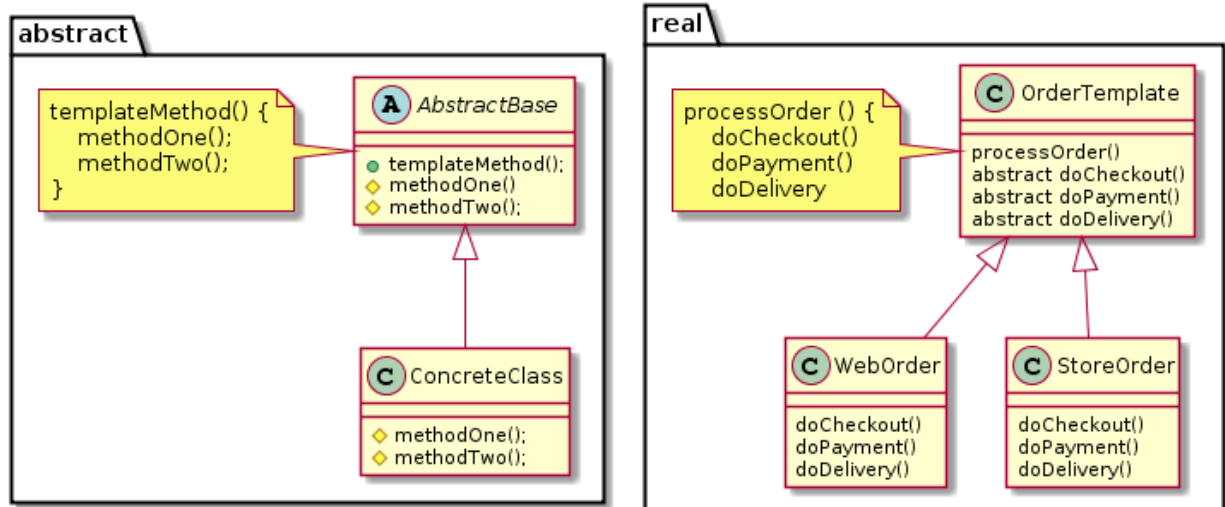
state pattern



strategy pattern



template pattern



visitor pattern

abstract

