### Programmable control panel

Operate household devices

Buttons can be programmed to do some operation on some device

Control panel must be *generic* 

Design options?

All-knowing class?









# Command

Command object encapsulates info to perform action on receiver

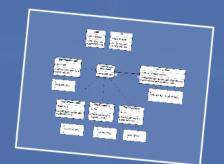
*Invoker* calls generic function on *given* command object to trigger action

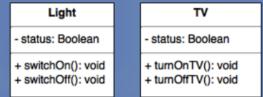
Use of command *interface* can allow design with different types of commands

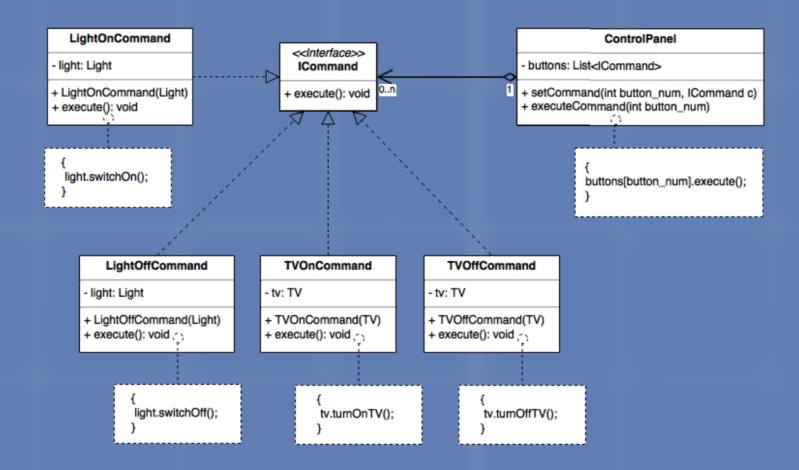
Can support *undo/redo* operations



Can *queue/log* requests







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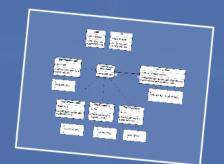
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## Usage

```
public class UseCommand {
public static void main(String args[]) {
    Light light = new Light();
   TV tv = new TV();
   ICommand tv_on = new SwitchOnCommand(tv);
    ICommand tv_off = new SwitchOffCommand(tv);
    ICommand light_on = new SwitchOnCommand(light);
   ICommand light_off = new SwitchOffCommand(light);
    ControlPanel ctrl = new ControlPanel();
    ctrl.setCommand(1, tv_on);
    ctrl.setCommand(2, tv_off);
    ctrl.setCommand(3, light_on);
    ctrl.setCommand(4, light_off);
    // to switch on the tv
    ctrl.executeCommand(1);
```

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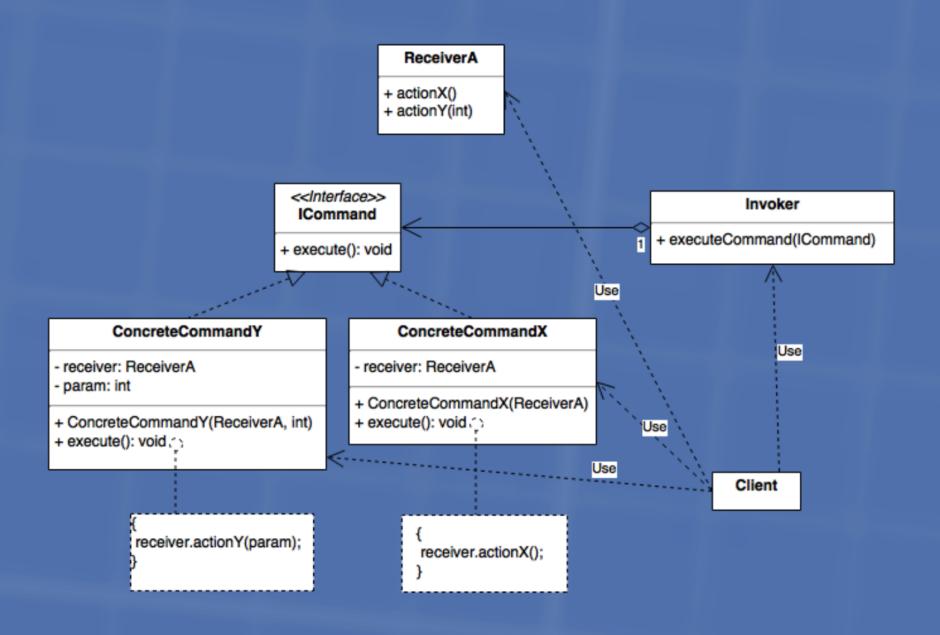








## Design Skeleton



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