

Want to take your Command Pattern coding to the next level? You can use Java's lambda expressions to skip the step of creating all those concrete command objects. With lambda expressions, instead of instantiating the concrete command objects, you can use *function objects* in their place. In other words, we can use a function object as a command. And, while we're at it, we can delete all those concrete Command classes, too.

Let's take a look at how you'd use lambda expressions as commands to simplify our previous code:

The updated code, using lambda expressions:

```
public class RemoteLoader {
   public static void main(String[] args) {
      Light livingRoomLight = new Light("Living Room"); We create the Light

...

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       LightOnCommand livingRoomLightOn
                                new LightOnCommand(livingRoomLight)
       LightOffCommand livingRoomLightOff =
                                                                                LightOffCommand
                                new LightOffCommand(livingRoomLight);
                                                                               objects.
       remoteControl.setCommand(0,() -> livingRoomLight.on(),
                                       () -> livingRoomLight.off());
                                                   Instead we'll write the concrete commands as lambda
         Later, when you click one of the remote's
                                                   expressions that do the same work as the concrete
         buttons, the remote calls the execute()
}
                                                   command's execute() method was doing: that is, turning
         method of the command object in the
                                                   the light on or turning the light off.
         slot for that button, which is represented
         by this lambda expression.
```

Once we've replaced the concrete commands with lambda expressions, we can delete all those concrete command classes (LightOnCommand, LightOffCommand, HottubOnCommand, HottubOffCommand, etc.). If you do this for every concrete command, you'll reduce the total number of classes in the remote control application from 22 to 9.

Note that you can only do this if your Command interface has *one* abstract method. As soon as we add a second abstract method, the lambda shorthand no longer works.

If you like this technique, check out your favorite Java reference for more information on the lambda expression.