



Project 3 Presentation

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Release 2.0

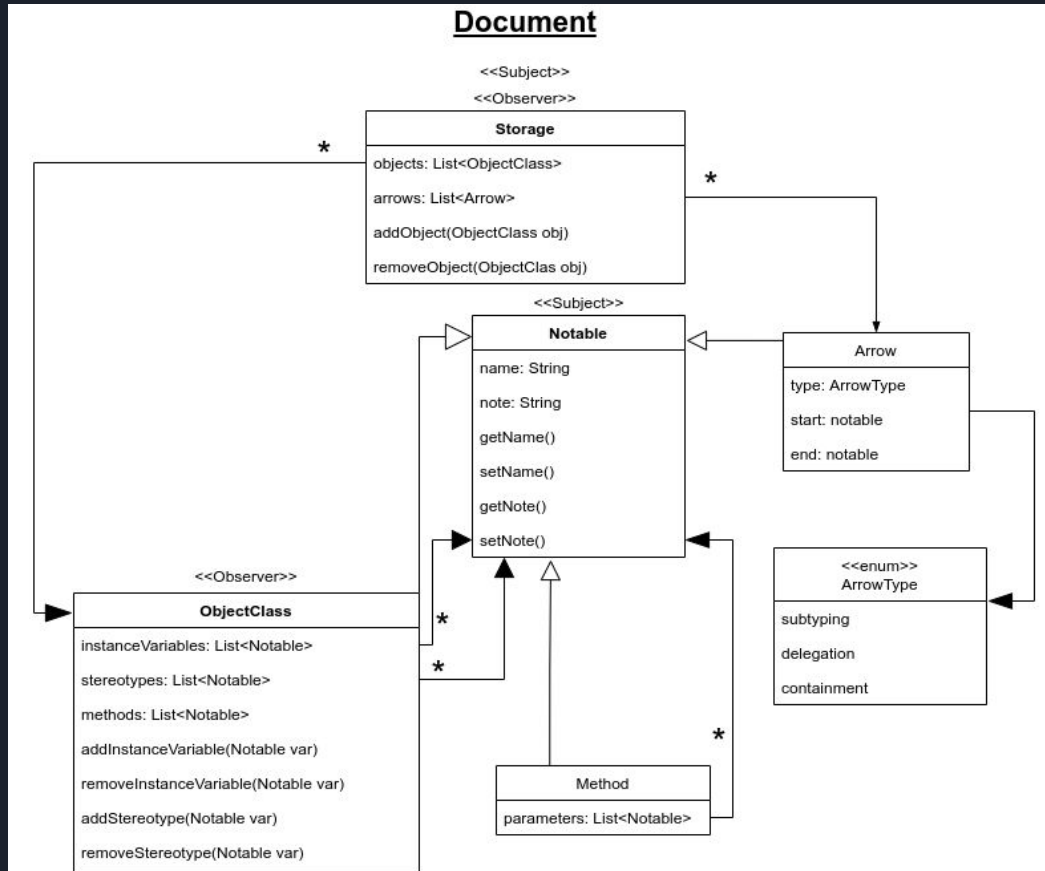
- Undo/Redo
- More Graphics Export Format
- Tabs/Multiple Diagrams
- Serialize to Python
- Integrating Test Spy



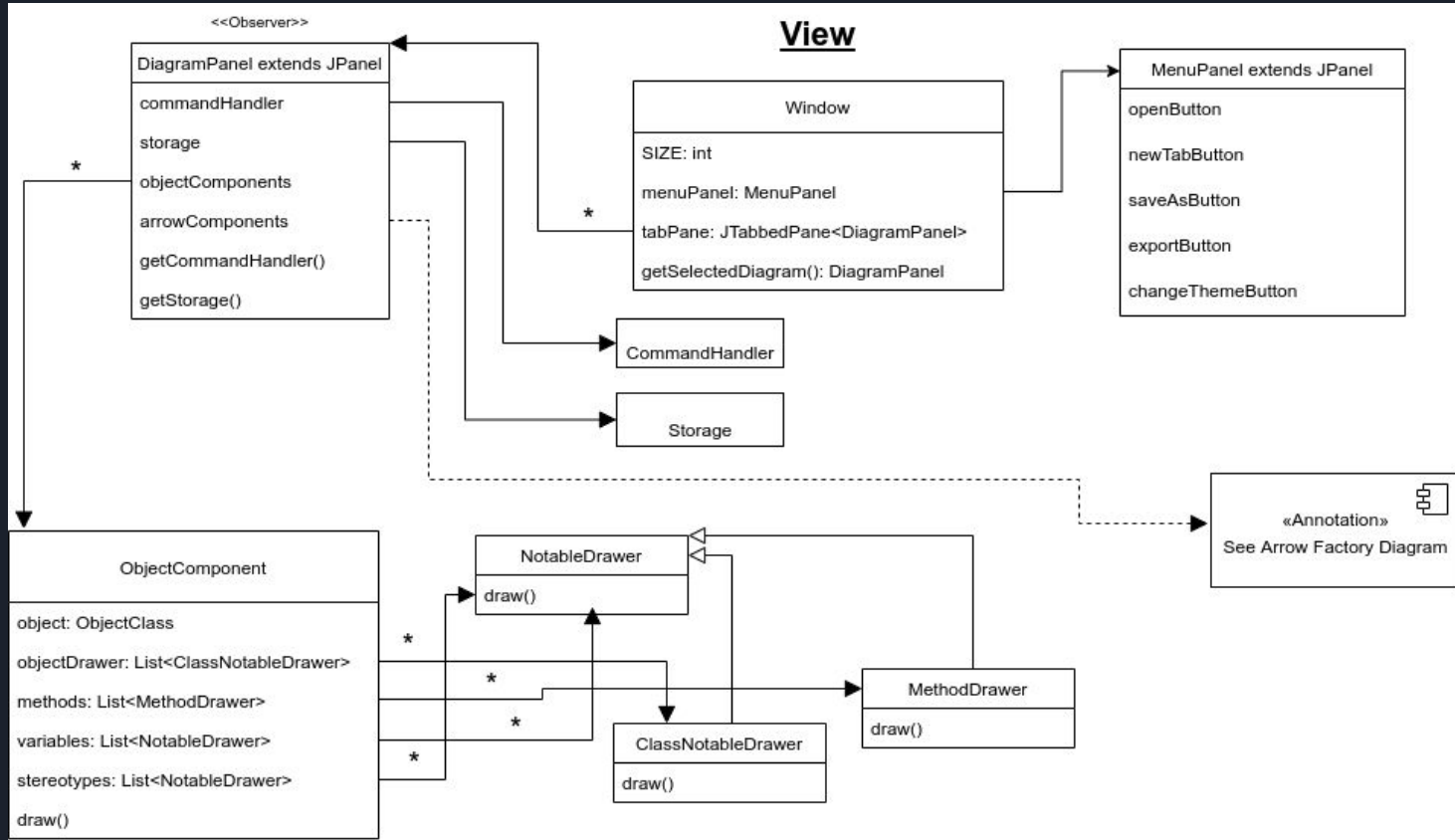
Release 3

- Read From Python
- Read/Write JSon files

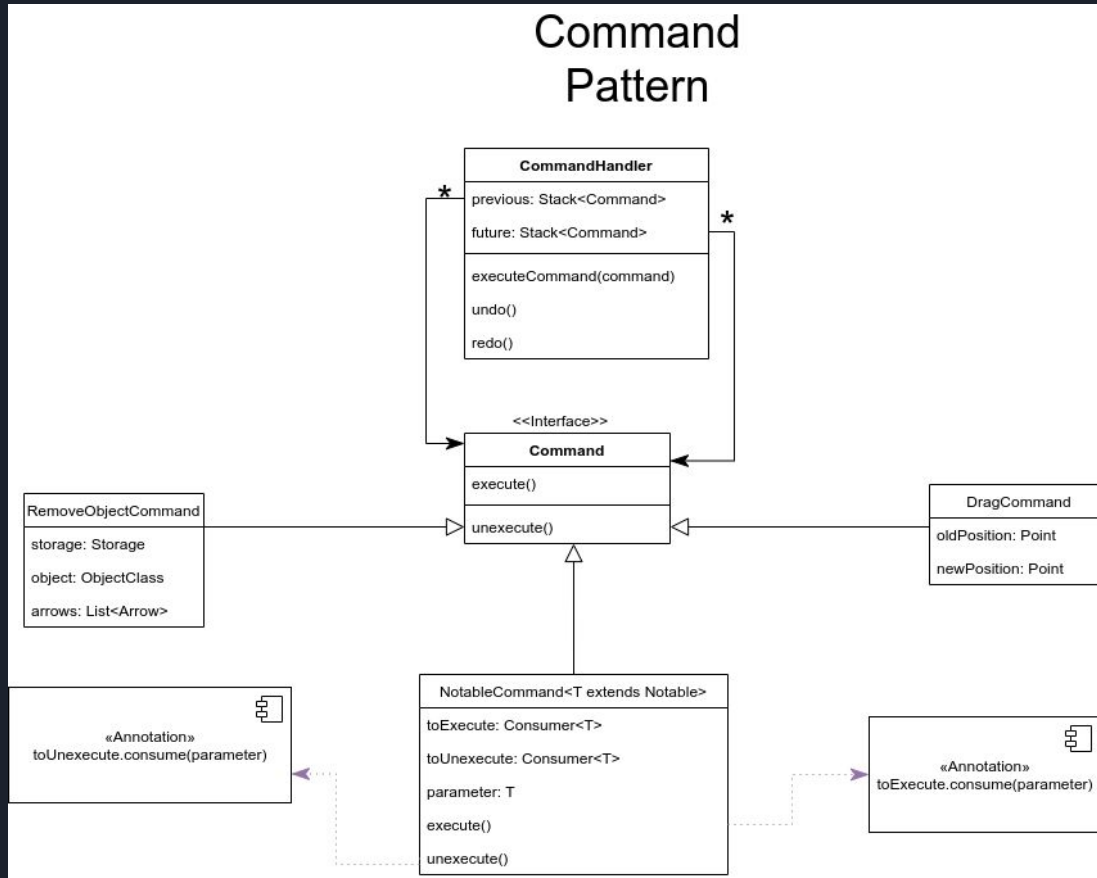
Document



View



Command Pattern For Undo/Redo



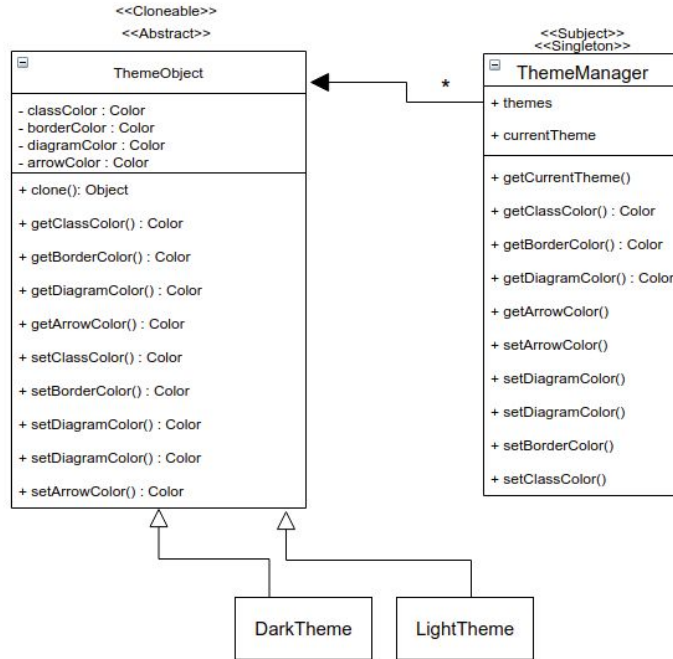
Notable Command Code

```
12 public class NotableCommand<T extends Notable> implements Command {
13     private T notable;
14     private Consumer<T> toExecute;
15     private Consumer<T> toUnexecute;
16
17     /**
18      * Constructs the command
19      * @param notable the notable to pass into the command
20      * @param toExecute the command to execute
21      * @param toUnexecute the command to unexecute
22      */
23     public NotableCommand(T notable, Consumer<T> toExecute, Consumer<T> toUnexecute) {
24         this.notable = notable;
25         this.toExecute = toExecute;
26         this.toUnexecute = toUnexecute;
27     }
28
29     /**
30      * Executes the command
31      */
32     @Override
33     public void execute() {
34         toExecute.accept(notable);
35     }
36
37     /**
38      * Undoes the command
39      */
40     @Override
41     public void unexecute() {
42         toUnexecute.accept(notable);
43     }
44
45 }
```

```
.getCommandHandler().executeCommand(new NotableCommand<Method>(new Method(name), object::addMethod, object::removeMethod));
```

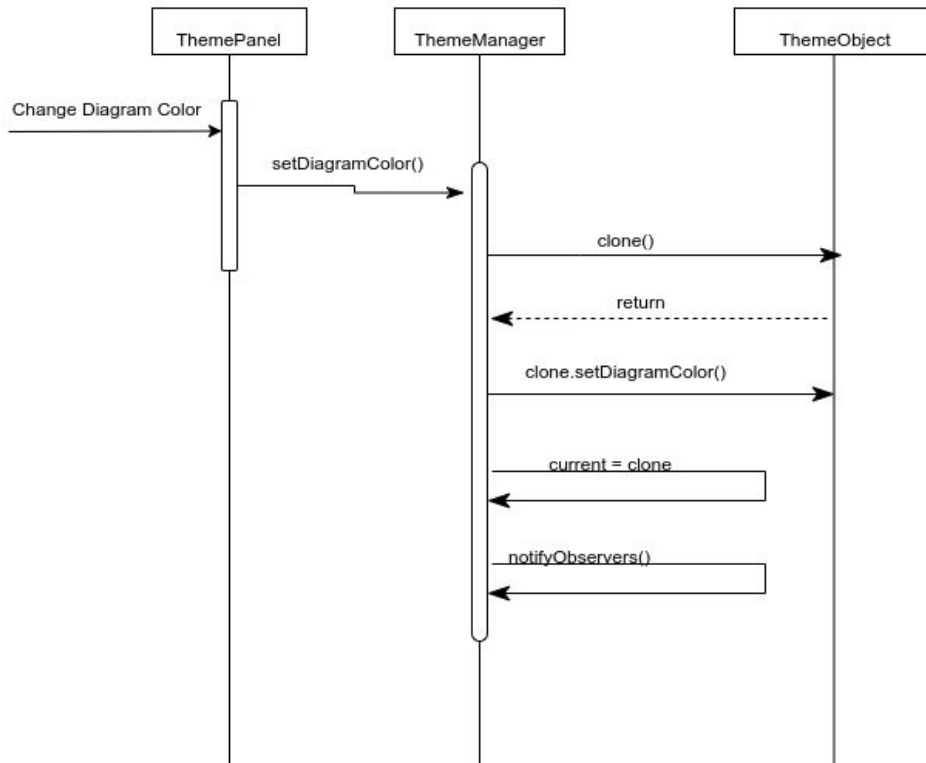
Prototype Pattern for Themes

Theme (Prototype Pattern)

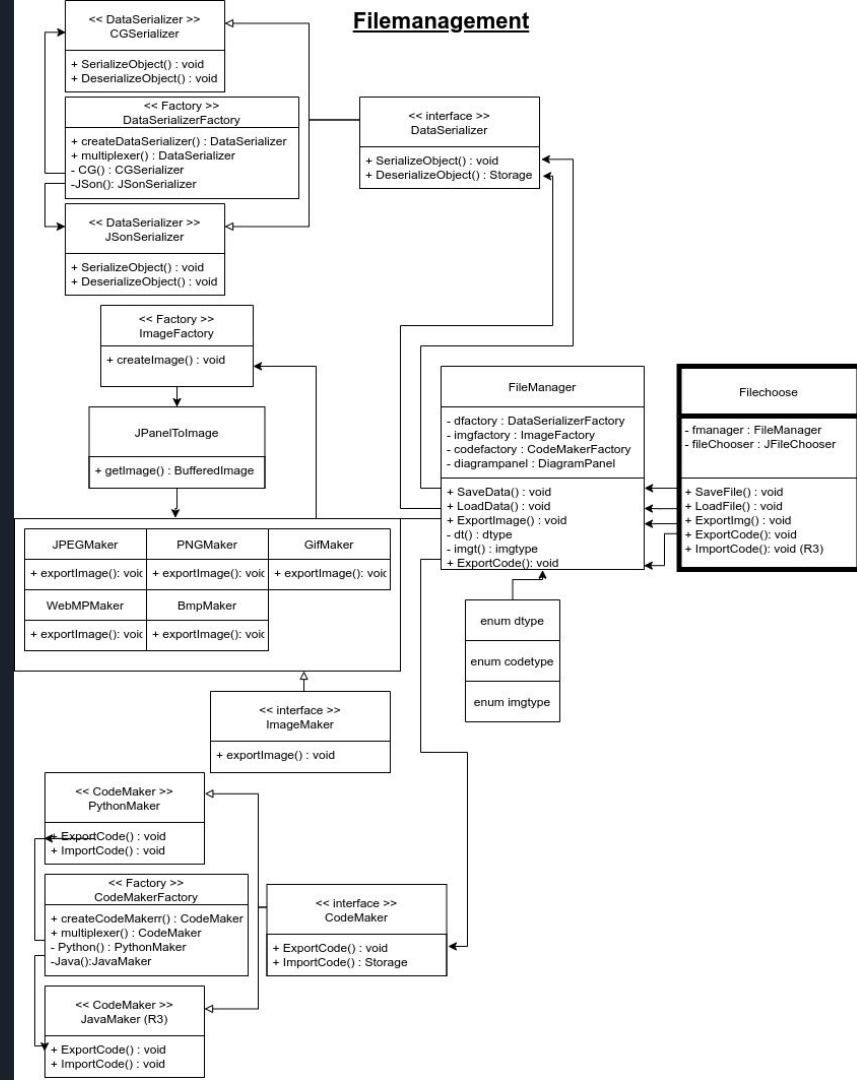


Editing Themes

Update Theme



File Management





Testing Tactics

Implemented Automatic Testing Technique using Mockito.

- Used Test Spy to verify if Diagram Panel gets repainted when we add an ObjectClass to Storage.
- Also verified that ObjectComponent does not repaint Diagram Panel.
- For future release, we can use Mock Objects to specify certain behaviours and test them.

Demo

