

CS 485

Advanced Object Oriented Design

Design Patterns

Command Pattern

Spring 2019

<http://www.netobjectives.com/PatternRepository/index.php?title=PatternsByAlphabet>

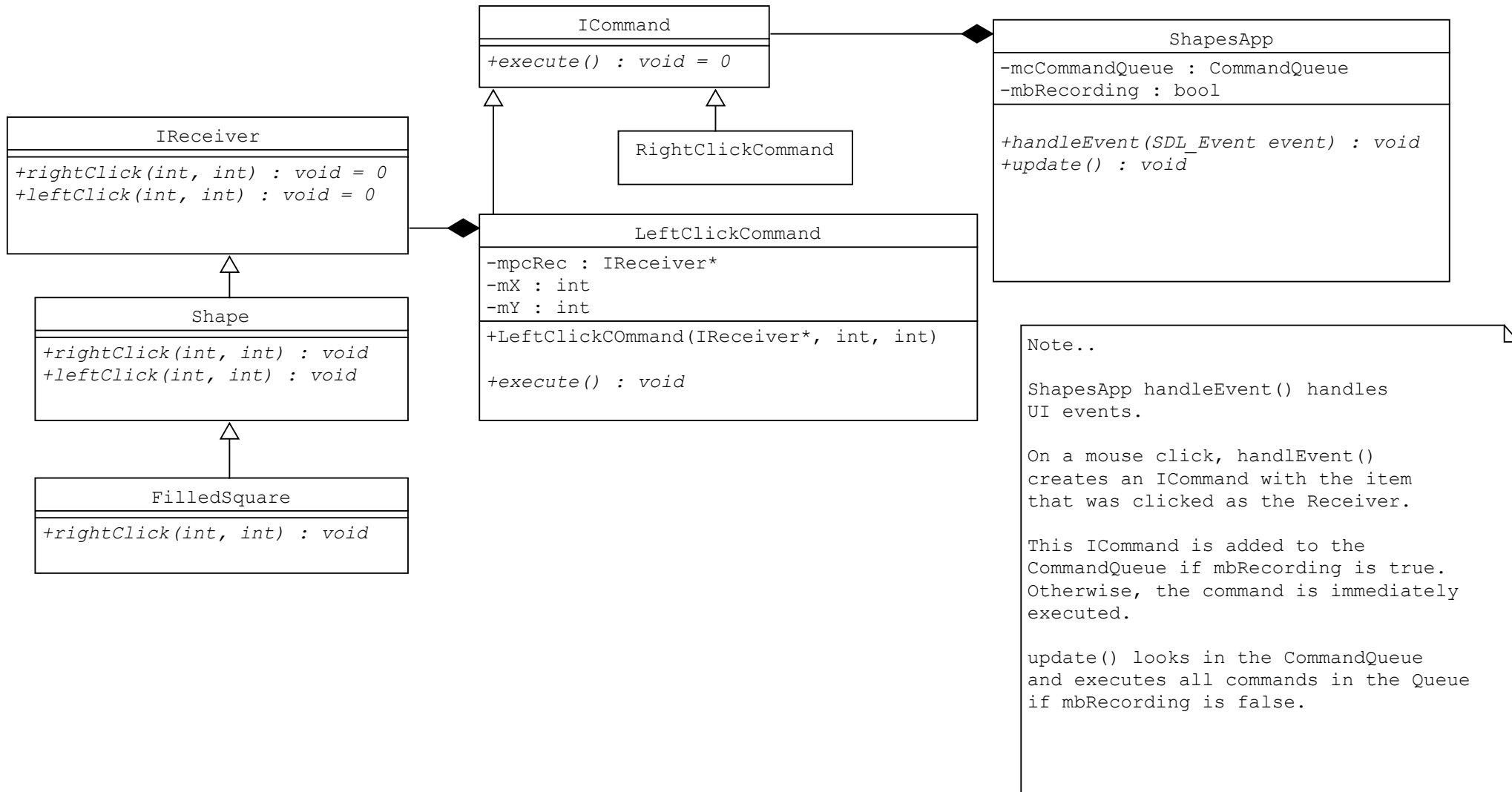
<http://www.netobjectives.com/files/books/dpe/design-patterns-matrix.pdf>

https://sourcemaking.com/design_patterns/command

Goals

Command Pattern

Caller



Workflow

- Instantiate Concrete Command with Concrete Receiver
- Pass Command to Caller
- execute() Command

```
// Instantiate  
pcCommand = new LeftClickCommand (pcClickedShape, x, y);
```

```
// Pass, Send, Save, etc.  
mcCommandQueue.addCommand (pcCommand);
```

```
// Execute  
pcComm = mcCommandQueue.getCommand ();  
pcComm->Execute ();  
delete pcComm;
```