Team redpanda: Sprint0

University of Toronto Mississauga, CSC207 Assignment 3

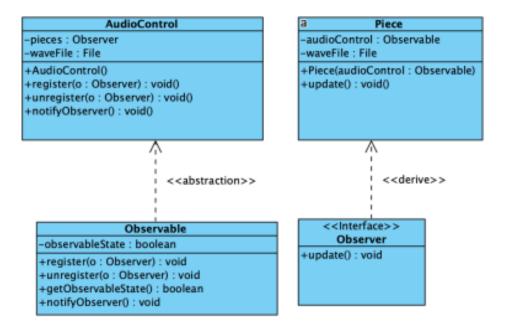
DATE: Sunday, November 21st, 2021

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1. Observable pattern

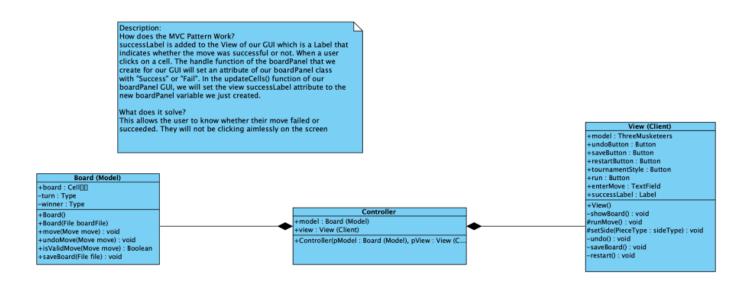


Description:

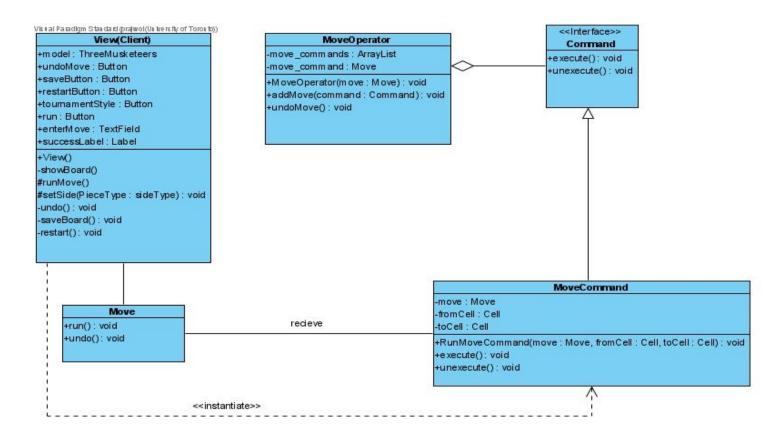
How does the Observer Pattern Work? The Observable AudioControl updates each Piece by updating its waveFile attribute with the File present in the Observable waveFile attribute. It does so by calling notifyObserver()

What does it solve? It simply adds entertainment value to the game, as most games have sounds.

2. MVC pattern



3. Command Pattern



What does it do:

The Command Pattern is used here to run and undo move commands in the board.

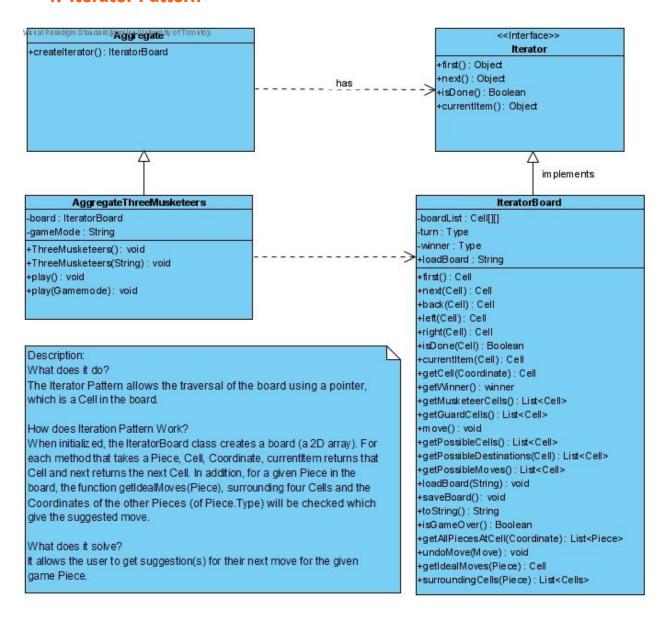
How does it work:

Here, the view(client) asks for a command to be executed when the user presses the buttons, run or undoMove. Then, a MoveCommand is created from the user inputs. The MoveO perator(Invoker) takes the new MoveCommand, encapsulates it, adds it to the move_commands list and calls the execute method and then the Move class performs the operations. When the undo operations are called the invoker removes the last performed move.

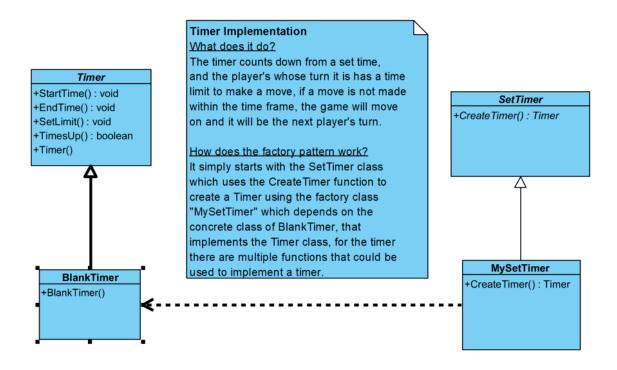
What does it solve:

It allows for encapsulating the commands and storing them in a list, or undoing the last command.

4. Iterator Pattern



5. Factory Pattern



6. Prototype Pattern

