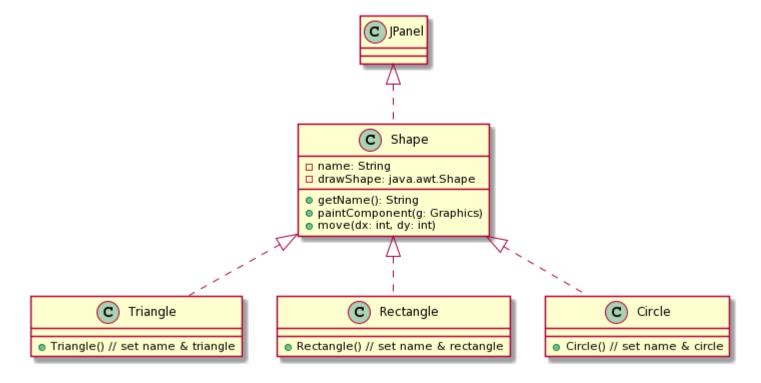
Java Programming II Lab7

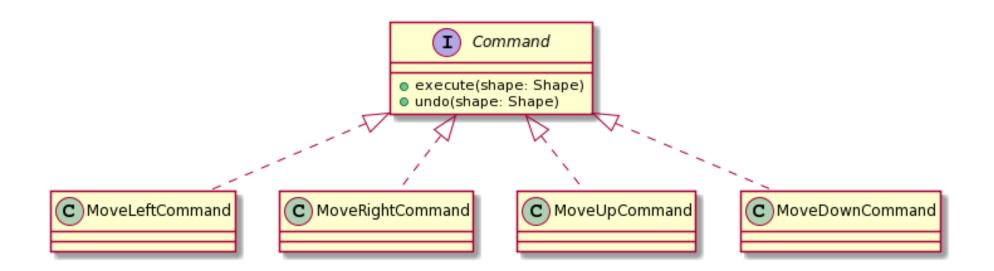
514770-1
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- □ Practice to write a program that operates move left/right/up/down the shape using **Command pattern**.
 - Shape extends JPanel and has void move(int x, int y).
 - Triangle, Rectangle, Circle extends Shape.
 - Command interface has void execute(Shape shape) and void undo(Shape shape).
 - MoveLeftCommand, MoveRightCommand, MoveUpCommand, MoveDownCommand implements execute and undo.
 - ShapeMoveControl is the invoker class.
 - □ HashMap < String, Command > map (for execute operation)
 - □ Stack < Command > stack (for undo operation).
 - void setCommand(String key, Command command)
 - void execute(Shape shape, String key)
 - void undo(Shape shape)

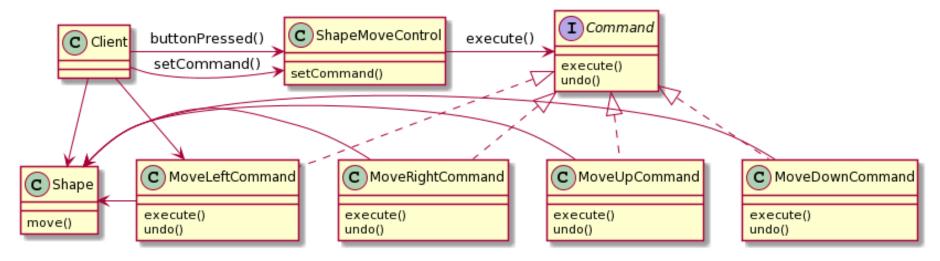
□ Triangle, Rectangle, Circle set their name and draw their own shape.

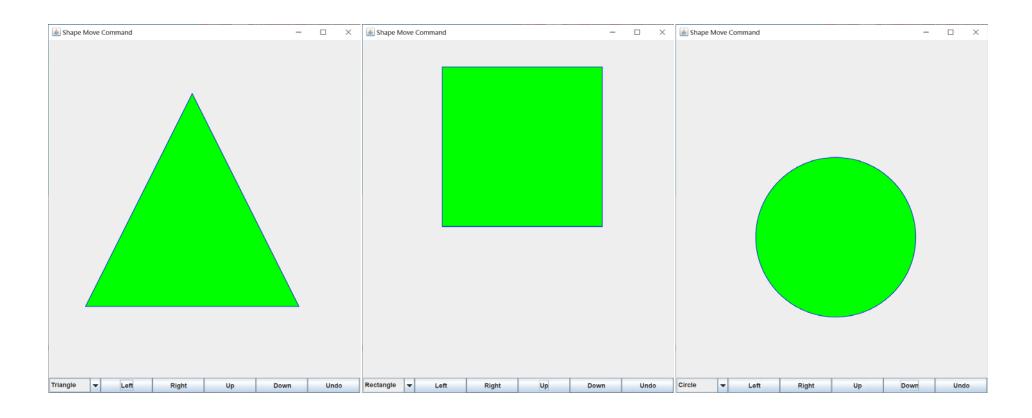


■ MoveLeftCommand, MoveRightCommand, MoveUpCommand, MoveDownCommand moves the shape left/right/up/down.



- □ The MainFrame client use **ShapeMoveControl** invoker to set command using (String key, Command command).
- □ Then, when the left/right/up/down button is pressed, each command execute is called.
- When the undo button is pressed, command undo is called.





Submit to e-learning

- Add your code (e.g., additional method, class, routine, etc) in the Lab7 assignment.
- Submit the Lab7 assignment (JAVA20-2-Lab7-ID-name.zip including the report) to e-learning.