

Bad Philophobia

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

ActionListener	
UserInterface	16
CommandWords	7
Game	9
GameEngine	10
Parser	12
Room	14

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

CommandWords	7
Game	9
GameEngine	10
Parser	12
Room	14
UserInterface	16

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

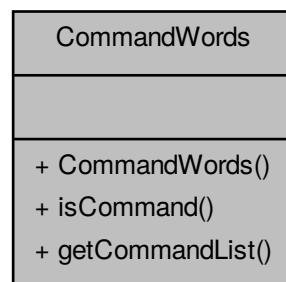
Command.java	21
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GameEngine.java	22
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Chapter 4

Class Documentation

4.1 CommandWords Class Reference

Collaboration diagram for CommandWords:



Public Member Functions

- [CommandWords](#) ()
- boolean [isCommand](#) (String aString)
- String [getCommandList](#) ()

4.1.1 Detailed Description

Class used to verify the commands given by the user. It contains all known commands and can verify if a String is a known command.

Author

Rémi NICOLE

Definition at line 9 of file [CommandWords.java](#).

4.1.2 Constructor & Destructor Documentation

4.1.2.1 CommandWords.CommandWords ()

[CommandWords](#) class constructor.

Definition at line 21 of file [CommandWords.java](#).

```
00021         {
00022
00023     }
```

4.1.3 Member Function Documentation

4.1.3.1 String CommandWords.getCommandList ()

Getter for the knownCommands field.

Definition at line 39 of file [CommandWords.java](#).

```
00039         {
00040     StringBuilder commands = new StringBuilder();
00041     for(int i = 0; i < knownCommands.length; i++) {
00042         commands.append( knownCommands[i] + " " );
00043     }
00044     return commands.toString();
00045 }
```

4.1.3.2 boolean CommandWords.isCommand (String aString)

Return true if and only if the command is known.

Definition at line 28 of file [CommandWords.java](#).

Referenced by [Parser.getCommand\(\)](#).

```
00028         {
00029     for(int i = 0; i < knownCommands.length; i++) {
00030         if(knownCommands[i].equals(aString))
00031             return true;
00032     }
00033     return false;
00034 }
```

Here is the caller graph for this function:

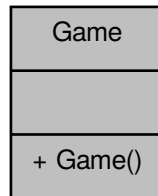


The documentation for this class was generated from the following file:

- [CommandWords.java](#)

4.2 Game Class Reference

Collaboration diagram for Game:



Public Member Functions

- [Game \(\)](#)

4.2.1 Detailed Description

Main class used to instantiate other objects.

Author

Rémi NICOLE

Definition at line 7 of file [Game.java](#).

4.2.2 Constructor & Destructor Documentation

4.2.2.1 Game.Game ()

[Game](#) class constructor

Definition at line 22 of file [Game.java](#).

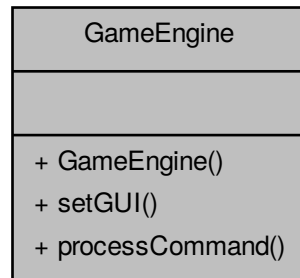
```
00022         {
00023             engine = new GameEngine();
00024             gui = new UserInterface(engine);
00025             engine.setGUI(gui);
00026         }
```

The documentation for this class was generated from the following file:

- [Game.java](#)

4.3 GameEngine Class Reference

Collaboration diagram for GameEngine:



Public Member Functions

- [GameEngine](#) ()
- void [setGUI](#) ([UserInterface](#) userInterface)
- void [processCommand](#) (String commandLine)

4.3.1 Detailed Description

Class handling the gameplay for the game. It takes care of room, parser, and room creations and command processing.

Author

Rémi NICOLE

Definition at line 8 of file [GameEngine.java](#).

4.3.2 Constructor & Destructor Documentation

4.3.2.1 GameEngine.GameEngine ()

[GameEngine](#) class constructor.

Definition at line 28 of file [GameEngine.java](#).

```
00028         {
00029     parser = new Parser();
00030     createRooms();
00031 }
```

4.3.3 Member Function Documentation

4.3.3.1 void GameEngine.processCommand (String *commandLine*)

Process the command.

Parameters

<i>commandLine</i>	The command to process.
--------------------	-------------------------

Definition at line 89 of file [GameEngine.java](#).

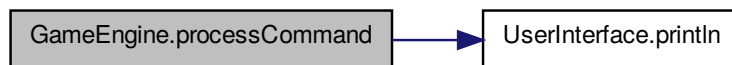
References [UserInterface.println\(\)](#).

```

00089                                     {
00090         gui.println(commandLine);
00091         Command command = parser.getCommand(commandLine);
00092
00093         if (command.isUnknown()) {
00094             gui.println("I don't know what you mean...");
00095             return;
00096         }
00097
00098         String commandWord = command.getCommandWord();
00099         if (commandWord.equals("help"))
00100             printHelp();
00101         else if (commandWord.equals("go"))
00102             goRoom(command);
00103         else if (commandWord.equals("quit")) {
00104             if (command.hasSecondWord())
00105                 gui.println("Quit what?");
00106             else
00107                 endGame();
00108         }
00109     }

```

Here is the call graph for this function:



4.3.3.2 void GameEngine.setGUI (UserInterface userInterface)

Setter for the gui field.

See Also

GameEngine::gui;

Definition at line 37 of file [GameEngine.java](#).

```

00037                                     {
00038         gui = userInterface;
00039         printWelcome();
00040     }

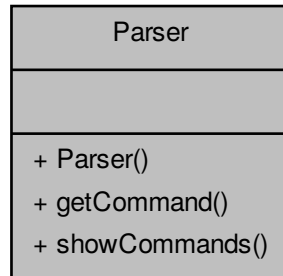
```

The documentation for this class was generated from the following file:

- [GameEngine.java](#)

4.4 Parser Class Reference

Collaboration diagram for Parser:



Public Member Functions

- [Parser](#) ()
- Command [getCommand](#) (String inputLine)
- String [showCommands](#) ()

4.4.1 Detailed Description

Class used to parse the commands with or without parameters given by the user.

Author

Rémi NICOLE

Definition at line 9 of file [Parser.java](#).

4.4.2 Constructor & Destructor Documentation

4.4.2.1 Parser.Parser ()

[Parser](#) class constructor.

Definition at line 19 of file [Parser.java](#).

```
00019         {
00020             commands = new CommandWords ();
00021         }
```

4.4.3 Member Function Documentation

4.4.3.1 Command Parser.getCommand (String inputLine)

Get a new command from the user.

Definition at line 26 of file [Parser.java](#).

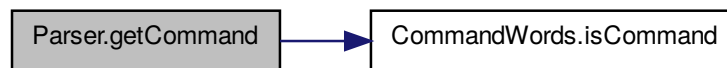
References [CommandWords.isCommand\(\)](#).

```

00026                                     {
00027
00028         String word1;
00029         String word2;
00030
00031         StringTokenizer tokenizer = new StringTokenizer(inputLine);
00032
00033         if(tokenizer.hasMoreTokens())
00034             word1 = tokenizer.nextToken(); // First word
00035         else
00036             word1 = null;
00037         if(tokenizer.hasMoreTokens())
00038             word2 = tokenizer.nextToken(); // Second word
00039         else
00040             word2 = null;
00041
00042         if(commands.isCommand(word1))
00043             return new Command(word1, word2);
00044         else
00045             return new Command(null, word2);
00046     }

```

Here is the call graph for this function:



4.4.3.2 String Parser.showCommands ()

Getter for the knownCommands field of the commands field.

See Also

CommandWords::knownCommands

Definition at line 52 of file [Parser.java](#).

```

00052                                     {
00053         return commands.getCommandList();
00054     }

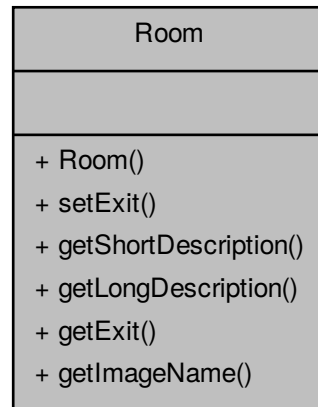
```

The documentation for this class was generated from the following file:

- [Parser.java](#)

4.5 Room Class Reference

Collaboration diagram for Room:



Public Member Functions

- [Room](#) (String description, String image)
- void [setExit](#) (String direction, [Room](#) neighbor)
- String [getShortDescription](#) ()
- String [getLongDescription](#) ()
- [Room](#) [getExit](#) (String direction)
- String [getImageName](#) ()

4.5.1 Detailed Description

Class used to handle a game's room.

Author

Rémi NICOLE

Definition at line 10 of file [Room.java](#).

4.5.2 Constructor & Destructor Documentation

4.5.2.1 Room.Room (String *description*, String *image*)

[Room](#) class constructor.

Parameters

<i>description</i>	Description for the room
<i>image</i>	Image path to display

Definition at line 33 of file [Room.java](#).

```
00033                                     {
00034         this.description = description;
00035         exits = new HashMap < String, Room > ();
00036         imageName = image;
00037     }
```

4.5.3 Member Function Documentation

4.5.3.1 Room Room.getExit (String *direction*)

Return the room in a specific direction.

Parameters

<i>direction</i>	The direction of the wanted room.
------------------	-----------------------------------

Definition at line 76 of file [Room.java](#).

```
00076                                     {
00077         return exits.get(direction);
00078     }
```

4.5.3.2 String Room.getImageName ()

Getter for the imageName field.

Definition at line 83 of file [Room.java](#).

```
00083                                     {
00084         return imageName;
00085     }
```

4.5.3.3 String Room.getLongDescription ()

Return the description of the room plus the available exits.

Definition at line 58 of file [Room.java](#).

```
00058                                     {
00059         return "You are " + description + ".\n" + getExitString();
00060     }
```

4.5.3.4 String Room.getShortDescription ()

Getter for the description field.

Definition at line 51 of file [Room.java](#).

```
00051                                     {
00052         return description;
00053     }
```

4.5.3.5 void Room.setExit (String *direction*, Room *neighbor*)

Define a room in a relative direction to the current room.

Parameters

<i>direction</i>	Direction in which the room is.
<i>neighbor</i>	The room in that direction.

Definition at line 44 of file [Room.java](#).

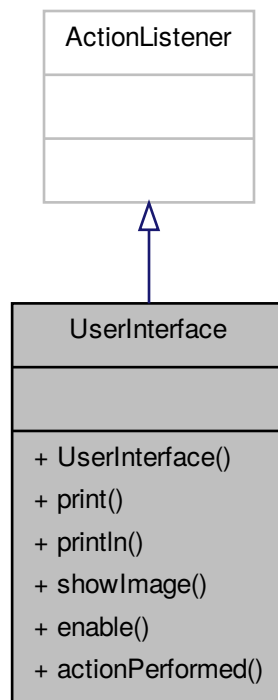
```
00044                                     {
00045     exits.put(direction, neighbor);
00046 }
```

The documentation for this class was generated from the following file:

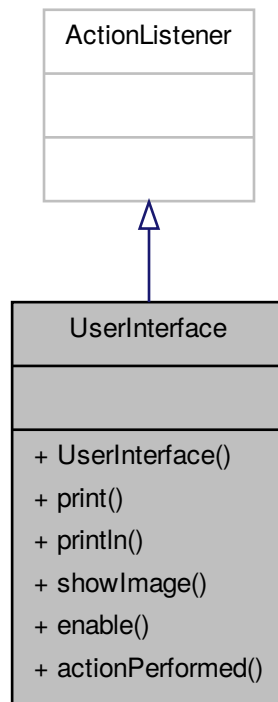
- [Room.java](#)

4.6 UserInterface Class Reference

Inheritance diagram for UserInterface:



Collaboration diagram for UserInterface:



Public Member Functions

- `UserInterface` (`GameEngine` gameEngine)
- void `print` (String text)
- void `println` (String text)
- void `showImage` (String imageName)
- void `enable` (boolean on)
- void `actionPerformed` (ActionEvent e)

4.6.1 Detailed Description

Class handling the game's user interface.

Author

Rémi NICOLE

Definition at line 11 of file `UserInterface.java`.

4.6.2 Constructor & Destructor Documentation

4.6.2.1 `UserInterface.UserInterface (GameEngine gameEngine)`

`UserInterface` class constructor.

Parameters

<i>gameEngine</i>	The gameplay GameEngine object.
-------------------	---

Definition at line 42 of file [UserInterface.java](#).

```

00042                                     {
00043         engine = gameEngine;
00044         createGUI();
00045     }
```

4.6.3 Member Function Documentation**4.6.3.1 void UserInterface.actionPerformed (ActionEvent e)**

Actionlistener for the textfield.

Parameters

<i>e</i>	Event.
----------	--------

Definition at line 129 of file [UserInterface.java](#).

```

00129                                     {
00130         processCommand();
00131     }
```

4.6.3.2 void UserInterface.enable (boolean on)

Enable or disable the input field.

Definition at line 83 of file [UserInterface.java](#).

```

00083                                     {
00084         entryField.setEditable(on);
00085         if(!on)
00086             entryField.getCaret().setBlinkRate(0);
00087     }
```

4.6.3.3 void UserInterface.print (String text)

Print the given text in the text area.

Parameters

<i>text</i>	Text to display.
-------------	------------------

Definition at line 51 of file [UserInterface.java](#).

```

00051                                     {
00052         log.append(text);
00053         log.setCaretPosition(log.getDocument().getLength());
00054     }
```

4.6.3.4 void UserInterface.println (String text)

Print the given text plus a newline in the text area.

Parameters

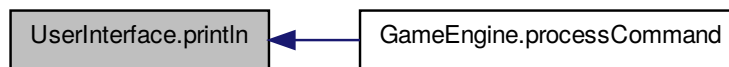
<i>text</i>	Text to display.
-------------	------------------

Definition at line 60 of file [UserInterface.java](#).

Referenced by [GameEngine.processCommand\(\)](#).

```
00060                                     {
00061         log.append(text + "\n");
00062         log.setCaretPosition(log.getDocument().getLength());
00063     }
```

Here is the caller graph for this function:



4.6.3.5 void UserInterface.showImage (String *imageName*)

Show the image corresponding to the path of the image.

Parameters

<i>imageName</i>	The path of the image.
------------------	------------------------

Definition at line 69 of file [UserInterface.java](#).

```
00069                                     {
00070         URL imageURL = this.getClass().getClassLoader().getResource(imageName);
00071         if(imageURL == null)
00072             System.out.println("image not found");
00073         else {
00074             ImageIcon icon = new ImageIcon(imageURL);
00075             image.setIcon(icon);
00076             myFrame.pack();
00077         }
00078     }
```

The documentation for this class was generated from the following file:

- [UserInterface.java](#)

Chapter 5

File Documentation

5.1 Command.java File Reference

Classes

- class **Command**

5.2 Command.java

```
00001
00011 class Command {
00017     private String command;
00018
00024     private String parameter;
00025
00031     public Command(String firstWord, String parameter) {
00032         command = firstWord;
00033         this.parameter = parameter;
00034     }
00035
00040     public String getCommandWord() {
00041         return command;
00042     }
00043
00048     public String getSecondWord() {
00049         return parameter;
00050     }
00051
00055     public boolean isUnknown() {
00056         return (command == null);
00057     }
00058
00062     public boolean hasSecondWord() {
00063         return (parameter != null);
00064     }
00065 }
00066
```

5.3 CommandWords.java File Reference

Classes

- class **CommandWords**

5.4 CommandWords.java

```
00001
```

```

00009 public class CommandWords
00010 {
00014     private static final String knownCommands[] = {
00015         "go", "quit", "help"
00016     };
00017
00021     public CommandWords() {
00022     }
00023
00024     public boolean isCommand(String aString) {
00028         for(int i = 0; i < knownCommands.length; i++) {
00029             if(knownCommands[i].equals(aString))
00030                 return true;
00031         }
00032         return false;
00033     }
00034
00035     public String getCommandList() {
00039         StringBuilder commands = new StringBuilder();
00040         for(int i = 0; i < knownCommands.length; i++) {
00041             commands.append( knownCommands[i] + " " );
00042         }
00043         return commands.toString();
00044     }
00045 }
00046
00047

```

5.5 Game.java File Reference

Classes

- class [Game](#)

5.6 Game.java

```

00001
00007 public class Game
00008 {
00012     private UserInterface gui;
00013
00017     private GameEngine engine;
00018
00022     public Game () {
00023         engine = new GameEngine();
00024         gui = new UserInterface(engine);
00025         engine.setGUI(gui);
00026     }
00027 }

```

5.7 GameEngine.java File Reference

Classes

- class [GameEngine](#)

5.8 GameEngine.java

```

00001
00008 public class GameEngine
00009 {
00013     private Parser parser;
00014
00018     private Room currentRoom;
00019
00023     private UserInterface gui;
00024
00028     public GameEngine() {

```

```

00029         parser = new Parser();
00030         createRooms();
00031     }
00032
00033     public void setGUI(UserInterface userInterface) {
00034         gui = userInterface;
00035         printWelcome();
00036     }
00037
00038     private void printWelcome() {
00039         gui.println("Greetings human.");
00040         gui.println("I see the assassins have failed. Too bad...");
00041         gui.println("You know what they say: if you want something done, do it yourself.");
00042         gui.println("At least I can see that you don't remember anything. At last something that I can take
00043 advantage of.");
00044         gui.println("That was predictable, human minds are weak.");
00045         gui.println("\nBecause you're stupid, I will describe you everything that will be around us.");
00046         gui.println("Who know ? Maybe you can turn into something useful. One day. Maybe.");
00047         gui.println(currentRoom.getLongDescription());
00048         gui.showImage(currentRoom.getImageName());
00049     }
00050
00051     private void createRooms() {
00052         // create the rooms
00053         Room outside = new Room("outside the main entrance of the university", "outside.gif");
00054         Room theatre = new Room("in a lecture theatre", "castle.gif");
00055         Room pub = new Room("in the campus pub", "courtyard.gif");
00056         Room lab = new Room("in a computing lab", "stairs.gif");
00057         Room office = new Room("the computing admin office", "dungeon.gif");
00058
00059         // initialise room exits
00060         outside.setExit("east", theatre);
00061         outside.setExit("south", lab);
00062         outside.setExit("west", pub);
00063
00064         theatre.setExit("west", outside);
00065
00066         pub.setExit("east", outside);
00067
00068         lab.setExit("north", outside);
00069         lab.setExit("east", office);
00070
00071         office.setExit("west", lab);
00072
00073         currentRoom = outside; // start game outside
00074     }
00075
00076     public void processCommand(String commandLine) {
00077         gui.println(commandLine);
00078         Command command = parser.getCommand(commandLine);
00079
00080         if (command.isUnknown()) {
00081             gui.println("I don't know what you mean...");
00082             return;
00083         }
00084
00085         String commandWord = command.getCommandWord();
00086         if (commandWord.equals("help"))
00087             printHelp();
00088         else if (commandWord.equals("go"))
00089             goRoom(command);
00090         else if (commandWord.equals("quit")) {
00091             if (command.hasSecondWord())
00092                 gui.println("Quit what?");
00093             else
00094                 endGame();
00095         }
00096     }
00097
00098     private void printHelp() {
00099         gui.println("Help ? Who needs help ? Only the weak ones.")
00100         gui.println("Your command words are: " + parser.showCommands());
00101         gui.println("That will be all.");
00102     }
00103
00104     private void goRoom(Command command) {
00105         if (!command.hasSecondWord()) {
00106             // if there is no second word, we don't know where to go...
00107             gui.println("Go where?");
00108             return;
00109         }
00110
00111         String direction = command.getSecondWord();
00112
00113         // Try to leave current room.
00114         Room nextRoom = currentRoom.getExit(direction);
00115     }

```

```

00137         if (nextRoom == null)
00138             gui.println("There is no door!");
00139         else {
00140             currentRoom = nextRoom;
00141             gui.println(currentRoom.getLongDescription());
00142             if(currentRoom.getImageName() != null)
00143                 gui.showImage(currentRoom.getImageName());
00144         }
00145     }
00146
00147     private void endGame() {
00148         gui.println("Thank you for playing. Good bye.");
00149         gui.enable(false);
00150     }
00151 }
00152
00153 }
00154
00155 }

```

5.9 Parser.java File Reference

Classes

- class [Parser](#)

5.10 Parser.java

```

00001 import java.util.StringTokenizer;
00002
00009 public class Parser {
00010
00014     private CommandWords commands;
00015
00019     public Parser() {
00020         commands = new CommandWords();
00021     }
00022
00026     public Command getCommand(String inputLine) {
00027
00028         String word1;
00029         String word2;
00030
00031         StringTokenizer tokenizer = new StringTokenizer(inputLine);
00032
00033         if(tokenizer.hasMoreTokens())
00034             word1 = tokenizer.nextToken(); // First word
00035         else
00036             word1 = null;
00037         if(tokenizer.hasMoreTokens())
00038             word2 = tokenizer.nextToken(); // Second word
00039         else
00040             word2 = null;
00041
00042         if(commands.isCommand(word1))
00043             return new Command(word1, word2);
00044         else
00045             return new Command(null, word2);
00046     }
00047
00052     public String showCommands() {
00053         return commands.getCommandList();
00054     }
00055 }

```

5.11 Room.java File Reference

Classes

- class [Room](#)

5.12 Room.java

```

00001 import java.util.Set;
00002 import java.util.HashMap;
00003 import java.util.Iterator;
00004
00010 public class Room {
00011
00015     private String description;
00016
00021     private HashMap < String, Room > exits;
00022
00026     private String imageName;
00027
00033     public Room(String description, String image) {
00034         this.description = description;
00035         exits = new HashMap < String, Room > ();
00036         imageName = image;
00037     }
00038
00044     public void setExit(String direction, Room neighbor) {
00045         exits.put(direction, neighbor);
00046     }
00047
00051     public String getShortDescription() {
00052         return description;
00053     }
00054
00058     public String getLongDescription() {
00059         return "You are " + description + ".\n" + getExitString();
00060     }
00061
00065     private String getExitString() {
00066         StringBuilder returnString = new StringBuilder("Exits:");
00067         for(String vS:exits.keySet())
00068             returnString.append(" " + vS);
00069         return returnString.toString();
00070     }
00071
00076     public Room getExit(String direction) {
00077         return exits.get(direction);
00078     }
00079
00083     public String getImageName() {
00084         return imageName;
00085     }
00086 }

```

5.13 UserInterface.java File Reference

Classes

- class [UserInterface](#)

5.14 UserInterface.java

```

00001 import javax.swing.*;
00002 import java.awt.*;
00003 import java.awt.event.*;
00004 import java.net.URL;
00005 import java.awt.image.*;
00006
00011 public class UserInterface implements ActionListener {
00012
00016     private GameEngine engine;
00017
00021     private JFrame myFrame;
00022
00026     private JTextField entryField;
00027
00031     private JTextArea log;
00032
00036     private JLabel image;
00037
00042     public UserInterface(GameEngine gameEngine) {
00043         engine = gameEngine;

```

```

00044         createGUI();
00045     }
00046
00051     public void print(String text) {
00052         log.append(text);
00053         log.setCaretPosition(log.getDocument().getLength());
00054     }
00055
00060     public void println(String text) {
00061         log.append(text + "\n");
00062         log.setCaretPosition(log.getDocument().getLength());
00063     }
00064
00069     public void showImage(String imageName) {
00070         URL imageURL = this.getClass().getClassLoader().getResource(imageName);
00071         if(imageURL == null)
00072             System.out.println("image not found");
00073         else {
00074             ImageIcon icon = new ImageIcon(imageURL);
00075             image.setIcon(icon);
00076             myFrame.pack();
00077         }
00078     }
00079
00083     public void enable(boolean on) {
00084         entryField.setEditable(on);
00085         if(!on)
00086             entryField.getCaret().setBlinkRate(0);
00087     }
00088
00092     private void createGUI() {
00093         myFrame = new JFrame("Zork");
00094         entryField = new JTextField(34);
00095
00096         log = new JTextArea();
00097         log.setEditable(false);
00098         JScrollPane listScroller = new JScrollPane(log);
00099         listScroller.setPreferredSize(new Dimension(200, 200));
00100         listScroller.setMinimumSize(new Dimension(100, 100));
00101
00102         JPanel panel = new JPanel();
00103         image = new JLabel();
00104
00105         panel.setLayout(new BorderLayout());
00106         panel.add(image, BorderLayout.NORTH);
00107         panel.add(listScroller, BorderLayout.CENTER);
00108         panel.add(entryField, BorderLayout.SOUTH);
00109
00110         myFrame.getContentPane().add(panel, BorderLayout.CENTER);
00111
00112         myFrame.addWindowListener(new WindowAdapter() {
00113             public void windowClosing(WindowEvent e) {
00114                 System.exit(0);
00115             }
00116         });
00117
00118         entryField.addActionListener(this);
00119
00120         myFrame.pack();
00121         myFrame.setVisible(true);
00122         entryField.requestFocus();
00123     }
00124
00129     public void actionPerformed(ActionEvent e) {
00130         processCommand();
00131     }
00132
00136     private void processCommand() {
00137         boolean finished = false;
00138         String input = entryField.getText();
00139         entryField.setText("");
00140
00141         engine.interpretCommand(input);
00142     }
00143 }

```

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