Constructor for View Class

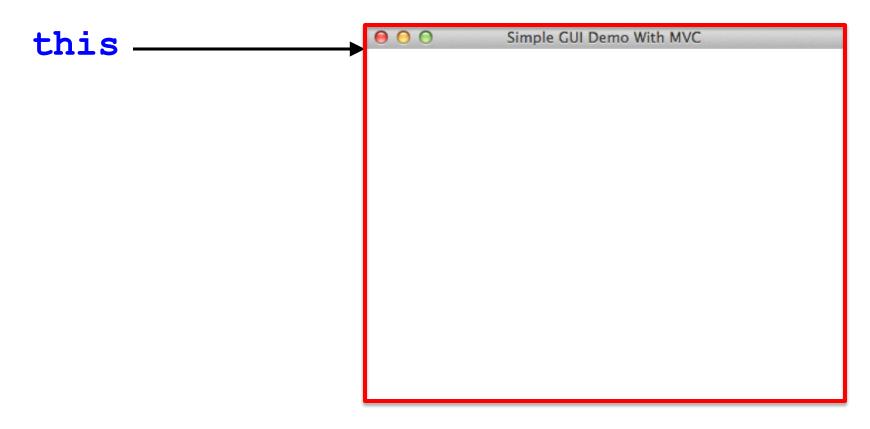


Tasks To Be Performed

- A simple constructor for the view class has four main jobs:
 - 1. Create the JFrame being extended
 - 2. Set up the GUI widgets to be used and "lay out" these widgets in the main application window
 - Set up the observers by registering (in our examples) the object being constructed, i.e., this, with each of the GUI widgets that might have events of interest to the application
 - 4. Start the main application window

1: Create the JFrame

super("Simple GUI Demo");





2: Set Up GUI Widgets (Text)...

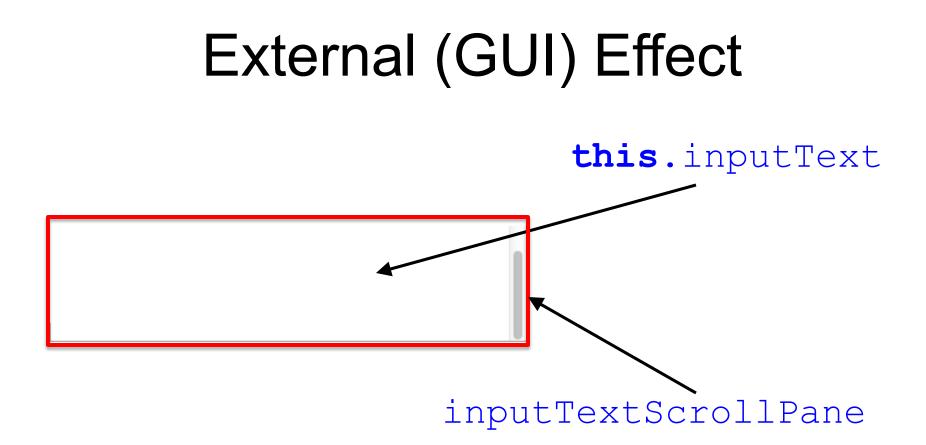
this.inputText = new JTextArea("", LINES_IN_TEXT_AREAS, LINE_LENGTHS_IN_TEXT_AREAS);

JScrollPane inputTextScrollPane =
 new JScrollPane(this.inputText);

2: Set Up GUI Widgets (Text)...

this.inputText = new JTextArea("", LINES_IN_TEXT_AREAS, LINE_LENGTHS_IN_TEXT_AREAS);

JScrollPane inputTextScro 5 lines, new JScrollPane(this.in each of length 20



this.inputText

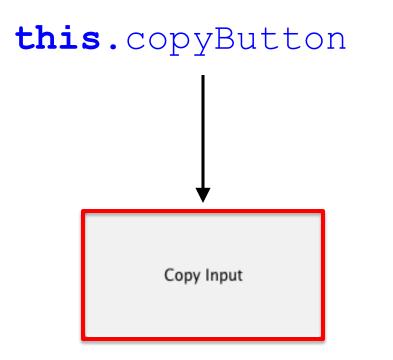
The scrollbars in JScrollPaneS actually arise only when needed; not needed yet, but illustrated here.

inputTextScrollPane

2: Set Up GUI Widgets (Buttons)...

this.copyButton =

new JButton("Copy Input");

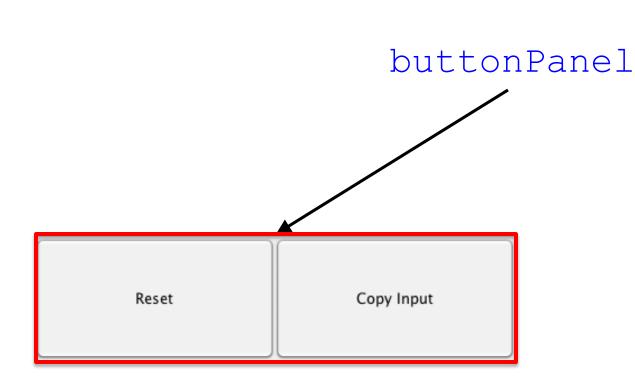


JPanel buttonPanel =
 new JPanel(
 new GridLayout(
 ROWS_IN_BUTTON_PANEL_GRID,
 COLUMNS_IN_BUTTON_PANEL_GRID));

buttonPanel.add(this.resetButton); buttonPanel.add(this.copyButton);

JPanel buttonPanel = 1 row,
new JPanel(
 new GridLayout(
 ROWS_IN_BUTTON_PANEL_GRID,
 COLUMNS_IN_BUTTON_PANEL_GRID));

buttonPanel.add(this.resetButton); buttonPanel.add(this.copyButton);



this.setLayout(
 new GridLayout(
 ROWS_IN_THIS_GRID,
 COLUMNS_IN_THIS_GRID));

this.add(inputTextScrollPane);
this.add(buttonPanel);
this.add(outputTextScrollPane);

• • •

this.setLayout(3 rows, new GridLayout(1 column ROWS_IN_THIS_GRID, COLUMNS_IN_THIS_GRID));

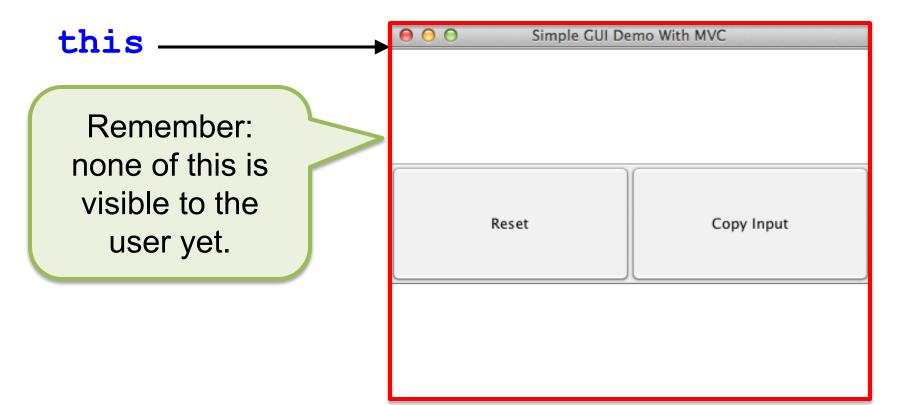
this.add(inputTextScrollPane);
this.add(buttonPanel);
this.add(outputTextScrollPane);

this.setLayout(
 new GridLayout(
 ROWS_IN_THIS_GRID,
 COLUMNS_IN_THIS_GRID

Remember: the two buttons are in this panel.

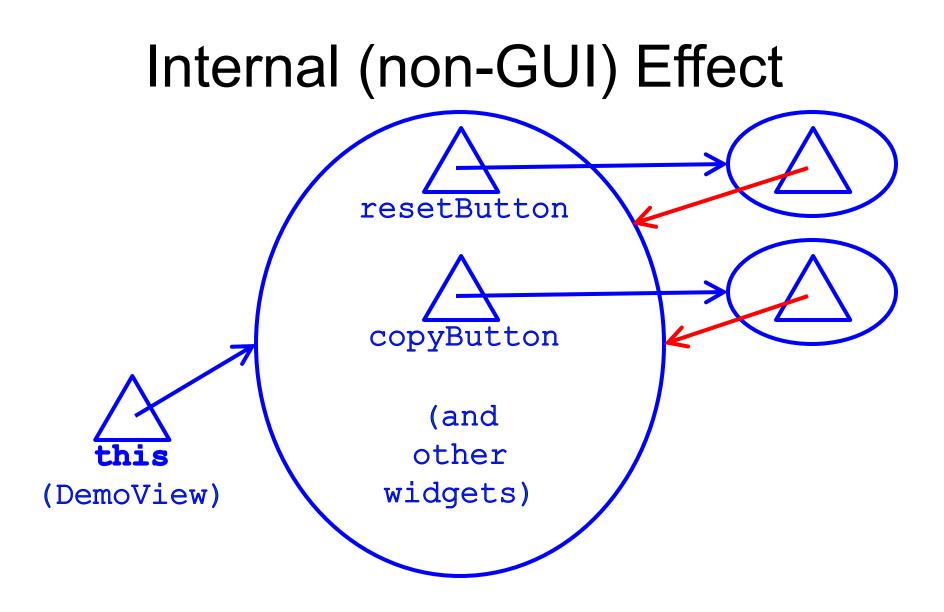
this.add(inputTey_ScrollPane);
this.add(buttonPanel);
this.add(outputTextScrollPane);

this	Simple GUI Demo With MVC	
	Reset	Copy Input



3: Set Up the Observers

- this.resetButton.addActionListener(this);
- this.copyButton.addActionListener(this);



4: Start the Main Window

this.pack();

this.setDefaultCloseOperation(

JFrame.EXIT_ON_CLOSE);

this.setVisible(true);

External (GUI) Effect: Now Visible

this	Simple GUI Demo With MVC	
	Reset	Copy Input

External (GUI) Effect: Now Visible

