GUI Programming: Components

Slides derived from the work of Dr. Amy McGovern and Dr. Deborah Trytten
JCheckBox, JRadioButton, JTextField

For last lab, you created a GUI with one of each and listen to them

• Radio buttons to select one item
• CheckBox to select an item (but can be several)
• JTextField to enter a single line of text
Other GUI Components

• JTextArea:
  • Multiple lines of text
  • Can combine with JScrollPane to enable scrolling

• JComboBox
  • Dropdown list of items to choose from
  • Pre-validates input!
  • ActionEvent for new selections
  • ItemEvent for unselect/new select
JList

• Like a combo box but enables multiple selection
  • Single item
  • Single interval selection
  • Multiple interval selection
  • Also combines with JScrollPane
• Fires ListSelectionEvent
  • valueChanged() handler
Range selection

JSlider
• Select a value from a range
• Sliding selection with a knob
Multiple windows

• Use multiple JFrames

• Example:
  • Create a JFrame with a button on it
  • When button is clicked, a new window appears
  • (like a progress bar and ‘OK’ button)
Progress bars

• JProgressBar
  • This might be good for your project 4!
More swing components


• Java documentation:
  • [http://docs.oracle.com/javase/tutorial/uiswing/components/componentlist.html](http://docs.oracle.com/javase/tutorial/uiswing/components/componentlist.html)