

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

- <http://da2i.univ-lille1.fr/doc/tutorial-java/ui/features/components.html>
- Java documentation:
 - <http://docs.oracle.com/javase/tutorial/uiswing/components/componentlist.html>

