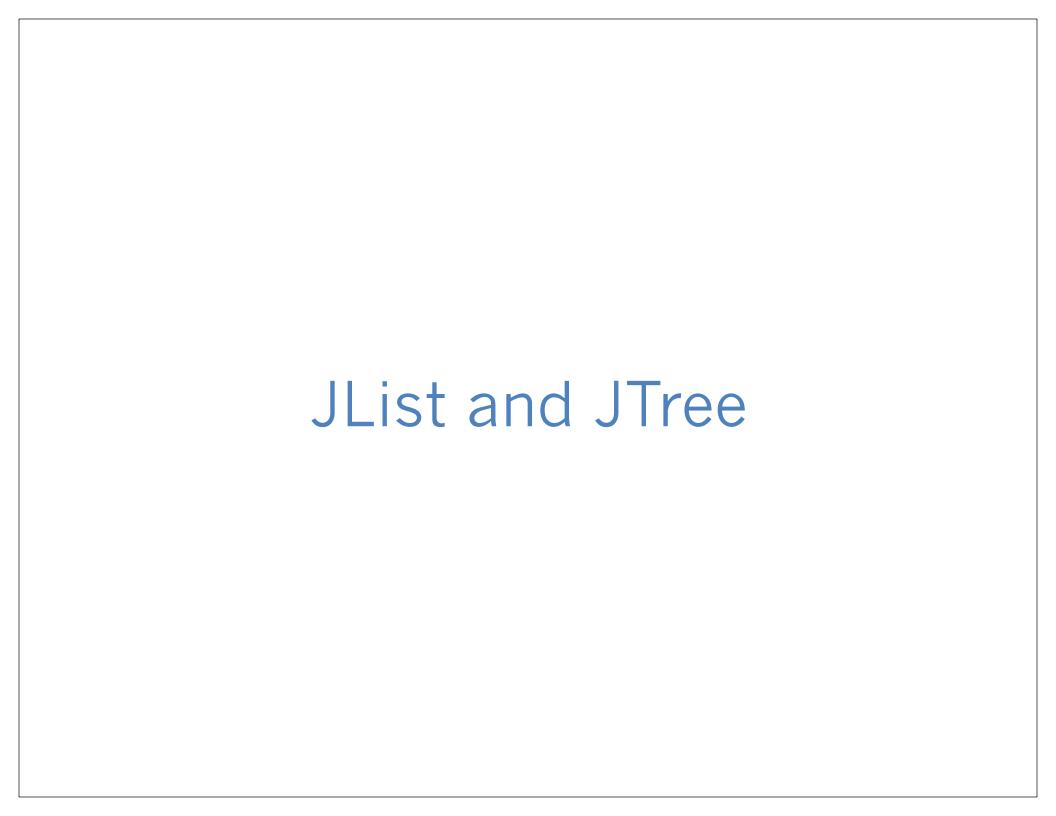
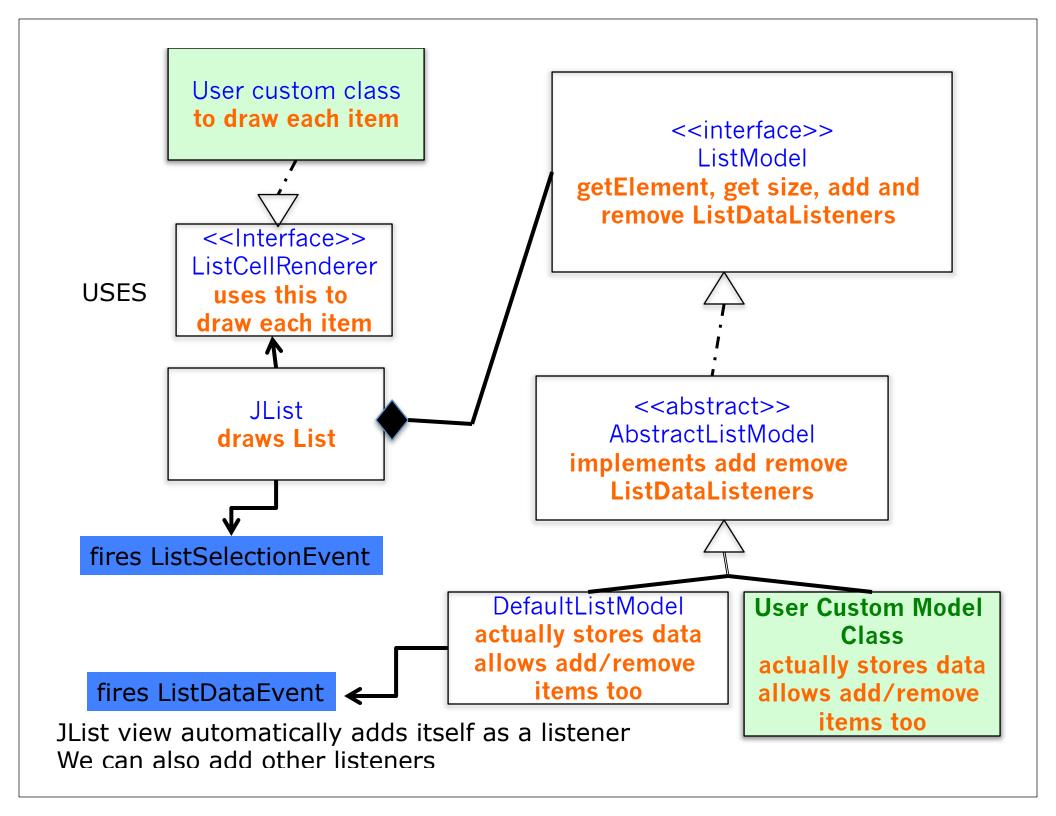
# Java Swing -2

MVC in Swing JList, JTrees, JTables

### MVC use in Java Swing

- Simple Components
  - These combine the Model and the View.
    - Example: JButton
    - Model is state of button (clicked or not)
    - View is how Button shows on screen
- Complex Components
  - These have separate Model and View classes!
  - Developer can create their own Model and View classes for these.
  - Example: JList, JTree, JTable



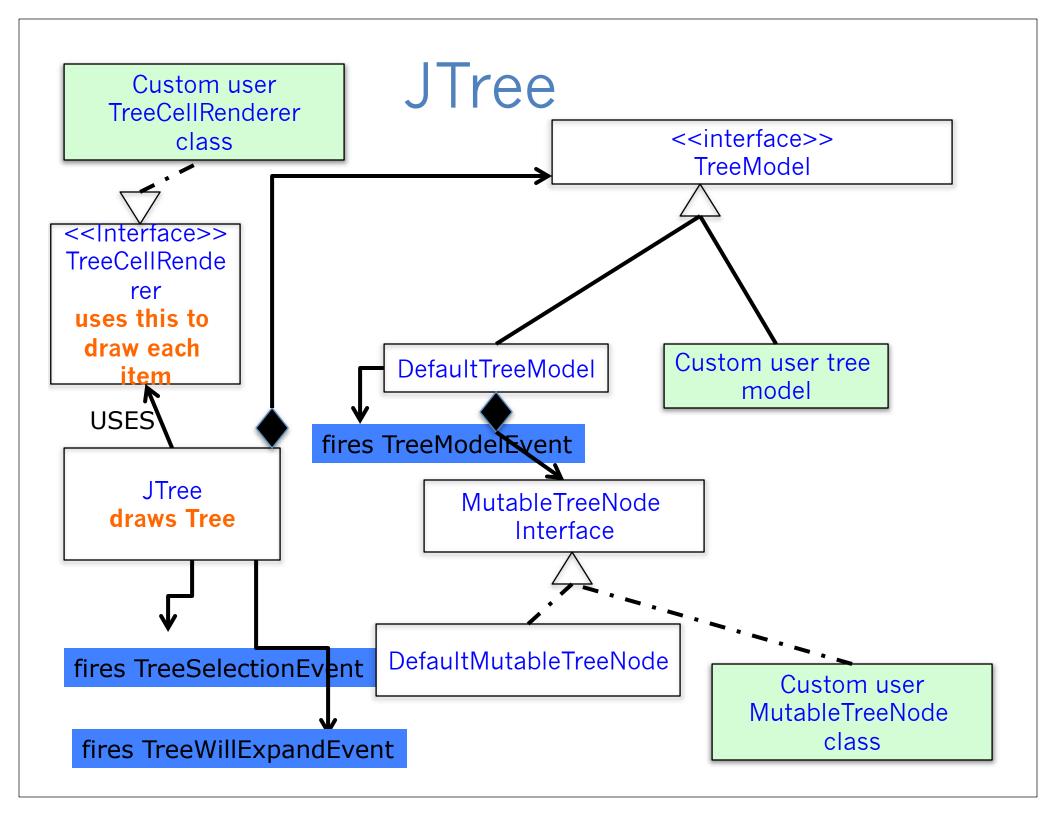


#### **JList**

 Implement ListCellRenderer to customize how the list items will display

 You can use the DefaultListModel to allow easy add/delete of items from JList

 You can also create own customized data model for JList by extending AbstractListModel. This allows you to SYNCHRONIZE your own data structure or file or database with the JList view.



#### JTree

- There are more types of listeners needed for JTree. Aside from select node, there are also expand/collapse tree node listeners.
- Implement TreeCellRenderer to customize how the Tree items will display.
- You can use the DefaultTreeModel and DefaultMutableTreeNode to allow easy add/delete of items from JTree
- You can also create own customized data model for JTree by implementing TreeModel and MutableTreeNode interfaces. This allows you to SYNCHRONIZE your own data structure or file or database with the JTree view.

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