What Have We Learned?

(15 & 16-OOD Post-read)

- TUI versus GUI
 - TUI
 - · Software tends to control sequence of user actions
 - · Data entry?
 - Software forces entry of data in a specific order
 - GUI
 - · Software allows user to determine sequence of actions
 - · Data entry?
 - User may enter data in any order they choose, based on GUI controls in window
- Impact on MVC?
 - TUI
 - · Controller tells view what to do next
 - GUI
 - · View tells controller what the user has done

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Slide 1

What Have We Learned?

(15 & 16-OOD Post-read)

- · GUI concepts (using Java terminology)
 - User controls
 - Aka graphical components/objects
 - Generally one of two types
 - A graphical object that the user interacts with
 - A graphical object that contains other graphical objects
 - User events
 - · Aka user messages
 - E.g., mouse click, mouse movement, keyboard press
 - Listener methods
 - · Reacts to user events
 - · Code reacts to any user event the software "cares about"

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Slide 2



What Have We Learned?

(15 & 16-OOD Post-read)

- GUI concepts (using Java terminology)
 - Types of user controls

Text box
JTextField, JTextArea

Push button JButton
Radio button (aka option button) JRadioButton

• Check box JCheckBox

LabelsList boxJlabel

- Container user controls

• Window JFrame• Part of a window Jpanel

Scrollable area of widow
 JScrollPane

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Slide 3