

Chapter 7 Menus, Toolbars, and Dialogs

1. To create menu bar in Forte, drop a JMenuBar from the component palette to the form.
2. See Example 7.1.
3. See the Note on Page 275.
4. To create a popup menu, drop JPopupMenu from the component palette to the form. To show a popup menu, use the show method of JPopupMenu. The popup menu usually contains the commands for an object. Customarily, you display a popup menu by pointing to the object and clicking a certain mouse button, the so-called popup trigger. Popup triggers are system-dependent. In Windows, the popup menu is displayed when the right mouse button is released. In Motif, the popup menu is displayed when the third mouse button is pressed and held down.
5. The JOptionPane class can be used to create four kinds of standard dialogs:
 - Message dialog: Shows a message and waits for the user to click OK.
 - Confirmation dialog: Shows a question and asks for confirmation, such as OK and Cancel.
 - Input dialog: Shows a question and gets the user's input from a text field, combo box, or list.
 - Option dialog: Shows a question and gets the user's answer from a set of options.

These dialogs are created using the static methods showXxxDialog.

6. To display a message dialog box, use the static showMessageDialog method in the JOptionPane class. The messageType is one of the following constants: JOptionPane.ERROR_MESSAGE, JOptionPane.INFORMATION_MESSAGE, JOptionPane.PLAIN_MESSAGE, JOptionPane.WARNING_MESSAGE, and JOptionPane.QUESTION_MESSAGE. The button in a message dialog box is OK.
7. To display a confirmation dialog box, use the static method showConfirmDialog in the JOptionPane class. The optionType determines which buttons are displayed in the dialog. The possible values are JOptionPane.YES_NO_OPTION, JOptionPane.YES_NO_CANCEL_OPTION, and JOptionPane.OK_CANCEL_OPTION.
8. Use JOptionPane.showInputDialog to create a dialog box to use text field as input. To create a dialog box using a combo box, use the showInputDialog method with an

argument of an array of less than 20 elements. To create a dialog box using a list, use the `showInputDialog` method with an argument of an array of 20 or more elements.

9. To show an instance of `JDialog`, invoke its `setVisible(true)` method. A standard dialog box created using the static methods in `JOptionPane` is modal. An instance of `JDialog` box by default is not modal.
10. To show a `JColorChooser` dialog box, use its `showDialog(Component, title, initialColor)` method. A `JColorChooser` dialog box is modal. The `showDialog` method returns the selected color.
11. To show a `JFileChooser` dialog box, use its `showOpenDialog` method to display an Open dialog box, and use its `showSaveDialog` method to display a Save dialog box. A `JFileChooser` dialog box is modal. To obtain the selected file(s), use the methods `getSelectedFile` or `getSelectedFiles`.