

Chapter 12 Applets and Advanced GUI

1. You run an applet from a Web browser or from the Applet Viewer utility. The applet must be embedded in an HTML file.
2. See the section "The Applet Class."
3. The `getParameter()` method is defined in the `Applet` class.
4. The components are added to the content pane of the applets.
5. See the section "The `<applet>` HTML Tag." You use the `<param>` tag to pass parameters to an applet.
6. An application has a `main()` method and runs as a standalone. An applet does not need a main method and must run from a Web browser. Applications and applets are compiled in the same way.

Applets are not allowed to read from, or write to, the file system of the computer. Applets are not allowed to run any programs on the browser's computer. Applets are not allowed to establish connections between the user's computer and another computer except with the server where the applets are stored.

7. No.
8. Yes. You can create an instance of `JApplet` and place it in a frame and use it.
9. The event type for a mouse movement is `MouseEvent`. The event type for getting key input is `KeyEvent`.
10. The listener interface for mouse pressed, released, clicked, entered, and exited is `MouseListener`. The listener interface for mouse moved and dragged is `MouseMotionListener`.
11. `keyTyped(KeyEvent e)`, `keyPressed(KeyEvent e)`, and `keyReleased(KeyEvent e)`
12. `mouseMoved(MouseEvent e)` or `mouseDragged(MouseEvent e)`
13. See the section "The `CardLayout` Manager."
14. See the section "The `GridBagLayout` Manager."

15. The order in which the components are added into a container is important for the `FlowLayout`, `GridLayout`, and `CardLayout` managers, but it is not important for `BorderLayout` and `GridBagLayout`.
16. The `FlowLayout` manager.
17. You can place the components without using a layout manager. The disadvantage of not using a layout manager is that it may look fine on one machine but become unusable on other machines.