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Applets and Java Web Start: Solutions

Observe due measure, for right timing is in all things the most important factor.

—Hesiod

Painting is only a bridge linking the painter's mind with that of the viewer.

—Eugene Delacroix

The direction in which education starts a man will determine his future in life.

—Plato

Objectives

In this chapter you'll learn:

- What applets are and how they're used in web pages.
- To observe some of Java's exciting capabilities through the JDK's demonstration applets.
- To write simple applets.
- To write a simple HyperText Markup Language (HTML) document to load an applet into an applet container and execute the applet.
- Applet life-cycle methods.
- About the sandbox security model for running downloaded code safely.
- What Java Web Start is and how to use it to download, install and run applets outside of the web browser.



Self-Review Exercise

23.1 Fill in the blanks in each of the following:

- a) Java applets begin execution with a series of three method calls: _____, _____ and _____.

ANS: `init`, `start`, `paint`.

- b) The _____ method is invoked for an applet each time a browser's user leaves an XHTML page on which the applet resides.

ANS: `stop`.

- c) Every applet should extend class _____.

ANS: `JApplet` (or `Applet`).

- d) The _____ or a browser can be used to execute a Java applet.

ANS: `appletviewer`.

- e) The _____ method is called each time the user of a browser revisits the XHTML page on which an applet resides.

ANS: `start`.

- f) To load an applet into a browser, you must first define a(n) _____ file.

ANS: XHTML.

- g) Method _____ is called once when an applet begins execution.

ANS: `init`.

- h) Method _____ is invoked to draw on an applet.

ANS: `paint`.

- i) Method _____ is invoked for an applet when the browser removes it from memory.

ANS: `destroy`.

- j) The _____ and _____ XHTML tags specify that an applet should be loaded into an applet container and executed.

ANS: `<applet>`, `</applet>`.

- k) _____ is a framework for running downloaded programs outside the browser.

ANS: Java Web Start.

- l) A(n) _____ document provides the information that Java Web Start needs to download and run a program.

ANS: Java Network Launch Protocol (JNLP).

- m) The _____ enables you to manage the Java Web Start programs on your system.

ANS: Java Cache Viewer.

Exercises

NOTE: Solutions to the programming exercises are located in the `ch23solutions` folder. Each exercise has its own folder named `ex23_##` where `##` is a two-digit number representing the exercise number. For example, exercise 23.10's solution is located in the folder `ex23_10`.