

3.4 Servlet Packaging

In a production environment, multiple programmers can be developing servlets for the same server. So, placing all the servlets in the same directory results in a massive, hard-to-manage collection of classes and risks name conflicts when two developers inadvertently choose the same name for a servlet or a utility class. Now, Web applications (see [Section 2.11](#)) help with this problem by dividing things up into separate directories, each with its own set of servlets, utility classes, JSP pages, and HTML files. However, since even a single Web application can be large, you still need the standard Java solution for avoiding name conflicts: packages. Besides, as you will see later, custom classes used by JSP pages should *always* be in packages. You might as well get in the habit early.

When you put your servlets in packages, you need to perform the following two additional steps.

- 1. Place the files in a subdirectory that matches the intended package name.** For example, we'll use the `coreservlets` package for most of the rest of the servlets in this book. So, the class files need to go in a subdirectory called `coreservlets`. Remember that case matters for both package names and directory names, regardless of what operating system you are using.
- 2. Insert a package statement in the class file.** For instance, for a class to be in a package called `somePackage`, the class should be in the `somePackage` directory and the *first* non-comment line of the file should read

```
package somePackage;
```

For example, [Listing 3.4](#) presents a variation of the `HelloServlet` class that is in the `coreservlets` package and thus the `coreservlets` directory. As discussed in [Section 2.8](#) (Test Your Setup), the class file should be placed in `install_dir/webapps/ROOT/WEB-INF/classes/coreservlets` for Tomcat, `install_dir/servers/default/default-ear/default-war/WEB-INF/classes/coreservlets` for JRun, and `install_dir/doc/WEB-INF/classes/coreservlets` for Resin. Other servers have similar installation locations.

[Figure 3-4](#) shows the servlet accessed by means of the default URL.

Listing 3.4 coreservlets/HelloServlet2.java

```
package coreservlets;

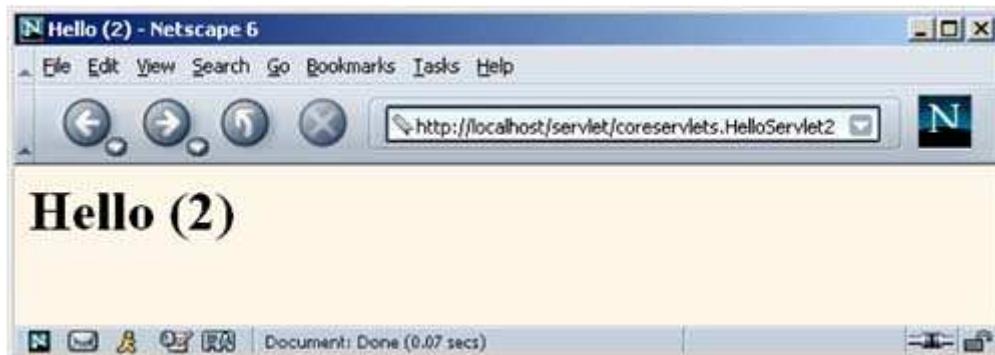
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

/** Simple servlet for testing the use of packages. */

public class HelloServlet2 extends HttpServlet {
    public void doGet(HttpServletRequest request,
                      HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        String docType =
            "<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 " +
            "Transitional//EN\">\n";
        out.println(docType);
        out.println("<html><head><title>HelloServlet2</title></head><body><h1>Hello, World!</h1></body></html>");
    }
}
```

```
out.println(docType +
    "<HTML>\n" +
    "<HEAD><TITLE>Hello (2)</TITLE></HEAD>\n" +
    "<BODY BGCOLOR=\"#FDF5E6\">\n" +
    "<H1>Hello (2)</H1>\n" +
    "</BODY></HTML> ");
}
```

Figure 3-4. Result of <http://localhost/servlet/coreservlets.HelloServlet2>.



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[[PREVIOUS](#)] [NEXT](#)]