

```

1 // fo1/10/juno/ShellCommand.java
2 //
3 //
4 // Copyright 2003 Bill Campbell and Ethan Bolker
5
6 import java.util.*;
7
8 /**
9  * Model those features common to all ShellCommands.
10 *
11 * Each concrete extension of this class provides a constructor
12 * and an implementation for method doIt.
13 *
14 * @version 10
15 */
16
17 public abstract class ShellCommand
18     implements java.io.Serializable
19 {
20     private String helpString; // documents the command
21     private String argString; // any args to the command
22
23     /**
24      * A constructor, always called (as super()) by the subclass.
25      * Used only for commands that have arguments.
26      *
27      * @param helpString a brief description of what the command does.
28      * @param argString a prototype illustrating the required arguments.
29      */
30
31     protected ShellCommand( String helpString, String argString )
32     {
33         this.argString = argString;
34         this.helpString = helpString;
35     }
36
37     /**
38      * A constructor for commands having no arguments.
39      *
40      * @param helpString a brief description of what the command does.
41      */
42
43     protected ShellCommand( String helpString )
44     {
45         this( helpString, "" );
46     }
47
48     /**
49      * Execute the command.
50      *
51      * @param args the remainder of the command line.
52      * @param sh the current shell
53      *
54      * @exception JunoException for reporting errors
55      */
56

```

```

57     public abstract void doIt( StringTokenizer args, Shell sh )
58         throws JunoException;
59
60     /**
61      * Help for this command.
62      *
63      * @return the help string.
64      */
65
66     public String getHelpString()
67     {
68         return helpString;
69     }
70
71     /**
72      * The argument string prototype.
73      *
74      * @return the argument string prototype.
75      */
76
77     public String getArgString()
78     {
79         return argString;
80     }
81 }

```