

```
-rw-r--r--. 1 zappaf zappaf 24735 Aug 13 2007 joes.garage.act.i
-rw-r--r--. 1 zappaf zappaf 23996 Aug 13 2007 just.another.band.from.l.a
-rw-r--r--. 1 zappaf zappaf   891 Aug 13 2007 make_a_jazz_noise_here
-rw-r--r--. 1 zappaf zappaf  2424 Aug 13 2007 nando
-rw-r--r--. 1 zappaf zappaf 11001 Aug 13 2007 overnite.sensation
-rw-r--r--. 1 zappaf zappaf  2772 Aug 13 2007 sofa
-rw-r--r--. 1 zappaf zappaf  1807 Aug 13 2007 sofa-lyrics
-rw-r--r--. 1 zappaf zappaf   473 Aug 13 2007 sofa_no_2
-rw-r--r--. 1 zappaf zappaf  6727 Aug 13 2007 some-lyrics.txt
-rw-r--r--. 1 zappaf zappaf  9535 Aug 13 2007 studio_tan
-rw-r--r--. 1 zappaf zappaf 14475 Aug 13 2007 the.man.from.utopia
-rw-r--r--. 1 zappaf zappaf 11688 Aug 13 2007 uncle_meat
-rw-r--r--. 1 zappaf zappaf   736 Aug 13 2007 weasles_ripped_my_flesh
-rw-r--r--. 1 zappaf zappaf   557 Aug 13 2007 ycdtosa6
-rw-r--r--. 1 zappaf zappaf 14761 Aug 13 2007 yellow-snow.txt
-rw-r--r--. 1 zappaf zappaf 27771 Aug 13 2007 you.are.what.you.is
-rw-r--r--. 1 zappaf zappaf  2361 Aug 13 2007 your-mouth
-rw-r--r--. 1 zappaf zappaf 10970 Aug 13 2007 zappa.in.new.york
```

FIGURE 2.2 A long listing.

1. **Control**—the command line permits users to include options that provide both flexibility and power over the defaults when issuing commands by GUI.
2. **Speed**—many programs issued at the command line are text-based and therefore will start faster and run faster than GUI-based programs.
3. **Resources**—as with speed, a text-based program uses fewer system resources.
4. **Remote access**—if you are using a program like ssh to reach a computer, you may be limited to a text-based interface, so learning it is important and once learned, you gain the other benefits.
5. **Reduced health risk**—yes, this one sounds odd, but mouse usage is one of the most harmful aspects of using a computer as it strains numerous muscles in your hand and wrist, while typing is less of a strain (although poor hand placement can also damage your wrist).

FIGURE 2.1 Advantages of the Command Line over a GUI.

```
1  ls
2  cd ~
3  pwd
4  man cd
5  ls -l
6  cd /bin
7  ls -l | grep root
8  cd ~
9  vi script1
10 cat script1
11 rm script1
12 history
```

FIGURE 2.3 Sample History.