Remote login — `telnet, ssh`

`telnet` *host* enables remote text-only communication with *host*.

`ssh` is somewhat similar to telnet, but it also provides:

- Encryption — all the transmitted information is encrypted using strong encryption.
- Alternative methods of authentication — `telnet` can only do password-based authentication (it's also potentially capable of Kerberos authentication, but that is rarely enabled), but `ssh` can also do user–level and host–level public key authentication.
- Compression — `ssh` can compress all the transmitted data (`-C` option).
- TCP/IP and X11 forwarding.

Copying files between machines — scp

scp is implemented on top of ssh. Similarly to cp, scp *old_location new_location* copies a file and scp *file*$_1$ *file*$_2$ ... *directory* copies files into a directory. Files and directories can be specified as:

- *path* (absolute or relative) — local files and directories.
- *host:path* or *user@host:path* — remote files and directories. If path is relative, it's taken relative to home directory on *host*.

Console mail reader (MUA) — pine

It's hard to say anything about pine other than "just go ahead and use it". All enabled pine capabilities are always listed in its on-screen menus. To enable the disabled options, go to the Config submenu of Setup submenu of the Main menu. Note: some features might be disabled by system administrator and can not be re-enabled by users.

On babbage.csuglab.cornell.edu pine is installed as ~cs114/bin/pine

Console Web browsing — `lynx`

`lynx` *URL* goes to *URL*. `lynx` can be used both interactively and in scripts. Non-interactive usage:

`lynx -dump` *URL* dumps the formatted contents of the *URL*

`lynx -dump -source` *URL* dumps the HTML source

`lynx -mime_header` *URL* dumps the HTTP header and the HTML source

On-line manuals — `man`

The best way of learning `man` is to run `man man` and let it speak for itself.

Note that the manual pages are also available via a Web interface on babbage — `http://www.csuglab.cornell.edu/cgi-bin/da10/man.cgi`