Software installation -- exercises

1. **Things you need to check:**

   -> is your ports collection installed:

      # ls -l /usr/ports

   -> do you have the Perl language interpreter installed?

      # ls -l /usr/bin/perl

2. **Finding a port**

   Go to the /usr/ports/directory (cd /usr/ports), and use following commands
   to search for port names or keywords, for example:

      # make search name=apache | more

      # make search key=music | more

   -> Find where the 'mysql-server' and 'bash' ports are (hint: look for
      'Path:' in the output of make search)

3. **Listing packages**

   To find installed packages on a system use the pkg_info command:

      # pkg_info | more

   To find which package a file belongs to, use the "pkg_info -W" command,
   for example:

      # pkg_info -W /usr/local/bin/twm
      /usr/local/bin/twm was installed by package twm-1.0.4

   -> Find which package the file '/usr/local/bin/cvt' belongs to.

4. **Installing from ports**

   -> Find where the port 'textmaze' is located

   -> Go to the directory for textmaze, and build it:

      # make

  -> What do you notice ?

   -> Install the port:

      # make install

   -> What do you notice ? Did the port install right away or did something
      else happen ?

   The port 'textmaze' is now installed... Try it out!

      # /usr/local/bin/textmaze

   -> Look at the contents of the directory /var/db/pkg -- you should see the
      new package that has been registered:

      # ls -l /var/db/pkg
      ...

```
      drwxr-xr-x  2 root  wheel     512 Apr 23 01:22 textmaze-1.2
      ...
```

   -> Look at the contents of the /var/db/pkg/textmaze-1.2 directory -- which
      files are there ?

5. **Installing from package**

   Installing from package is easy.

   There are two ways:

   - over the network:

     # pkg_add -r <package name>

   we shall now add a few packages - to make the URLS shorter let us do
# set
FTP_ROOT=ftp://ftp.freebsd.org/pub/FreeBSD/releases/i386/8.0-RELEASE/packages/
All

     # pkg_add $FTP_ROOT/mtr-0.75_1.tbz
     # pkg_add $FTP_ROOT/portupgrade-2.4.6_3,2.tbz

   - locally from the filesystem

     # pkg_add /path/to/<package name>

   -> Once again, look at /var/db/pkg/ and find the directory for the lynx
package.

   You will notice that the lynx package, which you installed from the cdrom,
   and the textmaze port, which you installed via the ports system, are both
   registered as packages in /var/db/pkg -- but you cannot tell which one was
   a port, and which one was a package.

6. **Installing with portupgrade**

   -> Make sure that portupgrade/portinstall is installed:

     # portinstall

   You should get the help screen from portinstall

   -> Install the 'sl' port

     # portinstall sl

   -> Test that sl works

     # sl