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://10.10.10.200/pub/FreeBSD/releases/i386/8.2-RELEASE/packages/All**

  # pkg_add $FTP_ROOT/mtr-0.80_2.tbz
  # pkg_add $FTP_ROOT/portupgrade-2.4.8_1,2.tbz

- locally from the filesystem

  # pkg_add /path/to/<package name>

-> Once again, look at /var/db/pkg/ and find the directory for the **zip pack-
age.**

You will notice that the zip 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