

# Lab 3 | Installing software and navigating the file system | Answers

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Assignment description [here](#)

## Question 1

1. Which command did you use to search for the themes and to install them?

~\$ sudo apt search theme ~\$ sudo apt install 'Name of package'

2. Which commands did you use to find and install the web browser?

~\$ sudo apt search surf

3.1 What is the name of the package?

pink-pony

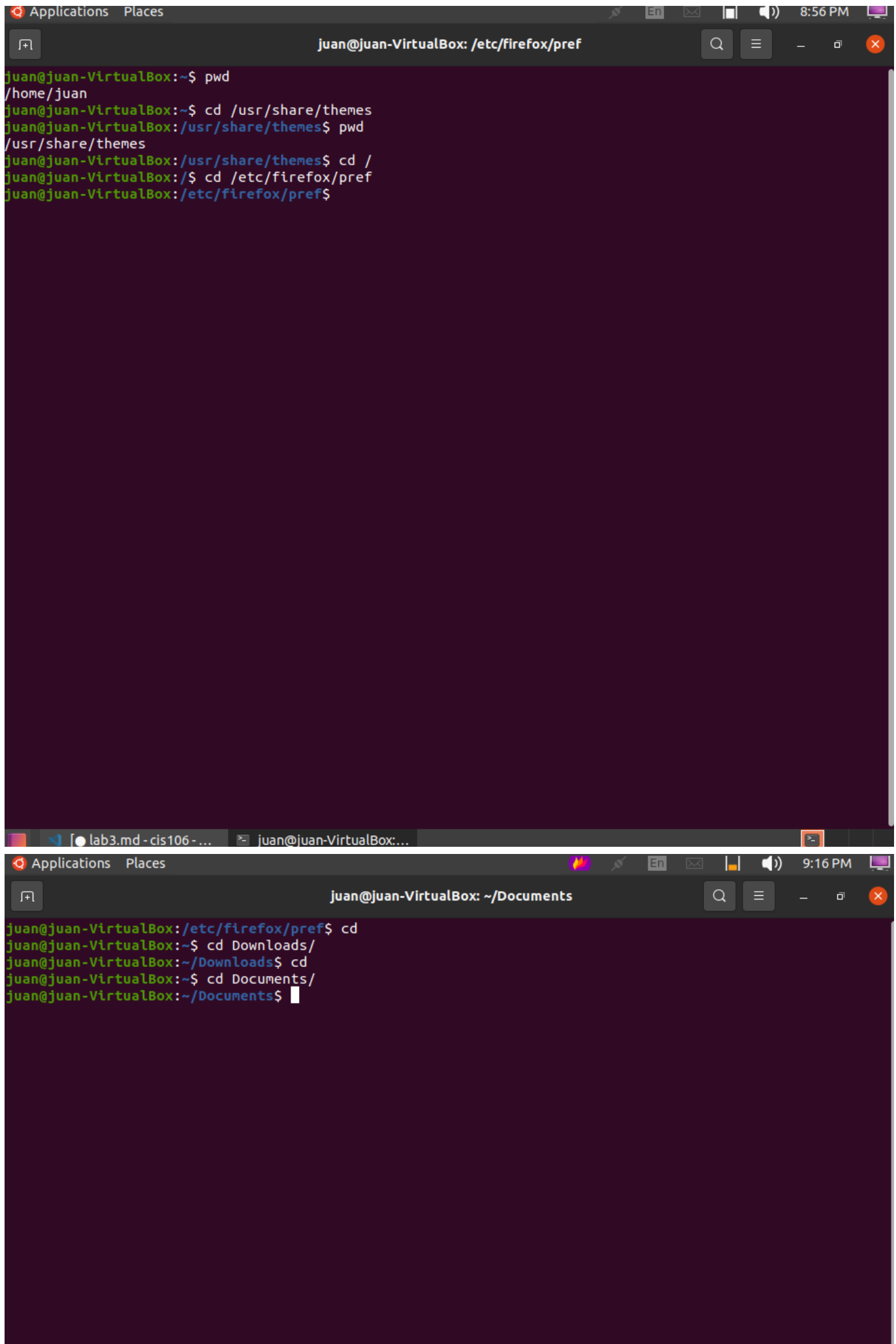
3.2 What dependencies are needed in order to install the package? (you can either take a screenshot of the terminal or copy and paste from the terminal)

liballegro4.4 libdevil1c2 libftgl2 libglfw3 liblmbase24 libmng2 libtinyxml2.6.2v5 pink-pony-data

3.3 How much disk space will the package utilize after installation?

19.6 MB of additional disk space will be used

## Question 2



The image consists of two screenshots of a terminal window within a virtual machine. The top screenshot shows a series of directory navigation commands: `pwd` (returns `/home/juan`), `cd /usr/share/themes`, `pwd` (returns `/usr/share/themes`), `cd /`, and `cd /etc/firefox/pref`. The bottom screenshot shows the user navigating from `/etc/firefox/pref` to `~/Downloads` and then to `~/Documents` using `cd` commands. Both screenshots show a terminal window with a dark purple background and a title bar indicating the user is 'juan' on a 'juan-VirtualBox' machine.

```
Applications  Places

juan@juan-VirtualBox: /etc/firefox/pref

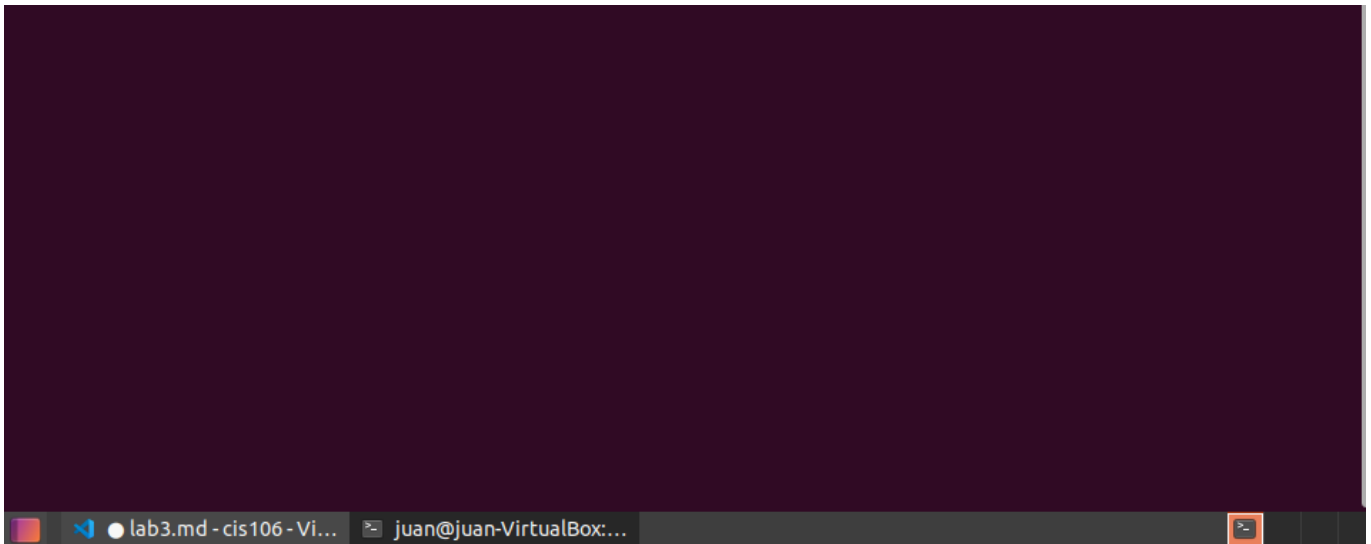
juan@juan-VirtualBox:~$ pwd
/home/juan
juan@juan-VirtualBox:~$ cd /usr/share/themes
juan@juan-VirtualBox:/usr/share/themes$ pwd
/usr/share/themes
juan@juan-VirtualBox:/usr/share/themes$ cd /
juan@juan-VirtualBox:/$ cd /etc/firefox/pref
juan@juan-VirtualBox:/etc/firefox/pref$

lab3.md - cis106 - ...  juan@juan-VirtualBox:...

Applications  Places

juan@juan-VirtualBox: ~/Documents

juan@juan-VirtualBox:/etc/firefox/pref$ cd
juan@juan-VirtualBox:~$ cd Downloads/
juan@juan-VirtualBox:~/Downloads$ cd
juan@juan-VirtualBox:~$ cd Documents/
juan@juan-VirtualBox:~/Documents$
```



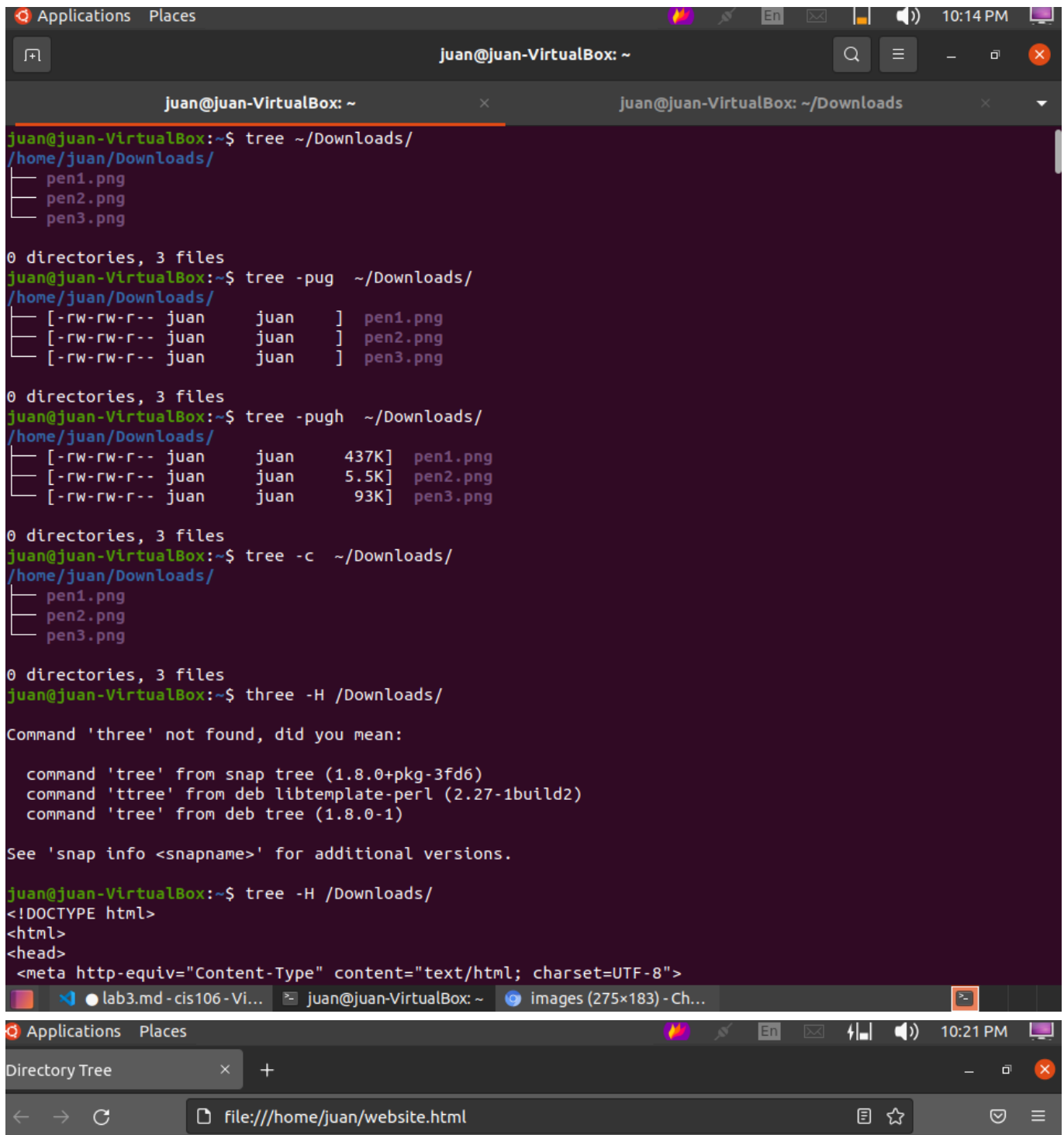
### Question 3

A terminal window showing a series of commands and their outputs. The window title is 'juan@juan-VirtualBox: ~'. The commands include 'ls', 'pwd', 'ls -a', 'ls -a Downloads/', 'ls -al Downloads/', and 'ls -lh Downloads/'. The outputs show the contents of the Downloads directory, including files pen1.png, pen2.png, and pen3.png.

```
Applications  Places
juan@juan-VirtualBox: ~
juan@juan-VirtualBox: ~/Downloads$ ls
pen1.png pen2.png pen3.png
juan@juan-VirtualBox: ~/Downloads$ pwd
/home/juan/Downloads
juan@juan-VirtualBox: ~/Downloads$ ls
pen1.png pen2.png pen3.png
juan@juan-VirtualBox: ~/Downloads$ ls -a
.  .. pen1.png pen2.png pen3.png
juan@juan-VirtualBox: ~/Downloads$ -a
-a: command not found
juan@juan-VirtualBox: ~/Downloads$ cd
juan@juan-VirtualBox: ~$ ls -a Downloads/
.  .. pen1.png pen2.png pen3.png
juan@juan-VirtualBox: ~$ ls -al Downloads/
total 552
drwxr-xr-x  2 juan juan  4096 Nov  1 21:37 .
drwxr-xr-x 20 juan juan  4096 Nov  1 21:17 ..
-rw-rw-r--  1 juan juan 447022 Nov  1 21:32 pen1.png
-rw-rw-r--  1 juan juan  5591 Nov  1 21:33 pen2.png
-rw-rw-r--  1 juan juan 95525 Nov  1 21:35 pen3.png
juan@juan-VirtualBox: ~$ ls -alh Downloads/
total 552K
drwxr-xr-x  2 juan juan 4.0K Nov  1 21:37 .
drwxr-xr-x 20 juan juan 4.0K Nov  1 21:17 ..
-rw-rw-r--  1 juan juan 437K Nov  1 21:32 pen1.png
-rw-rw-r--  1 juan juan 5.5K Nov  1 21:33 pen2.png
-rw-rw-r--  1 juan juan 94K Nov  1 21:35 pen3.png
juan@juan-VirtualBox: ~$ ls -h Downloads/
pen1.png pen2.png pen3.png
juan@juan-VirtualBox: ~$
```

### Question 4





The screenshot shows a terminal window with the following commands and output:

```

juan@juan-VirtualBox:~$ tree ~/Downloads/
/home/juan/Downloads/
├── pen1.png
├── pen2.png
└── pen3.png

0 directories, 3 files
juan@juan-VirtualBox:~$ tree -pug ~/Downloads/
/home/juan/Downloads/
├── [-rw-rw-r-- juan      juan      ] pen1.png
├── [-rw-rw-r-- juan      juan      ] pen2.png
└── [-rw-rw-r-- juan      juan      ] pen3.png

0 directories, 3 files
juan@juan-VirtualBox:~$ tree -pugh ~/Downloads/
/home/juan/Downloads/
├── [-rw-rw-r-- juan      juan      437K] pen1.png
├── [-rw-rw-r-- juan      juan      5.5K] pen2.png
└── [-rw-rw-r-- juan      juan      93K] pen3.png

0 directories, 3 files
juan@juan-VirtualBox:~$ tree -c ~/Downloads/
/home/juan/Downloads/
├── pen1.png
├── pen2.png
└── pen3.png

0 directories, 3 files
juan@juan-VirtualBox:~$ three -H /Downloads/

Command 'three' not found, did you mean:

  command 'tree' from snap tree (1.8.0+pkg-3fd6)
  command 'ttree' from deb libtemplate-perl (2.27-1build2)
  command 'tree' from deb tree (1.8.0-1)

See 'snap info <snapname>' for additional versions.

juan@juan-VirtualBox:~$ tree -H /Downloads/
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

```

The bottom part of the screenshot shows a web browser window displaying a directory tree for the file:///home/juan/website.html. The tree structure is as follows:

```

/Downloads/
├── cis106
│   ├── imgs
│   │   ├── lab3q2.png
│   │   ├── lab3q2pt2.png
│   │   ├── q2.png
│   │   ├── q3.png
│   │   ├── q4.png
│   │   ├── q5.png
│   │   ├── ques4.png
│   │   └── question3.png
│   ├── labs
│   │   ├── lab2.md
│   │   └── lab3.md
│   ├── notes
│   └── README.md
├── Desktop
└── Documents

```

## Directory Tree

```

/Downloads/
├── cis106
│   ├── imgs
│   │   ├── lab3q2.png
│   │   ├── lab3q2pt2.png
│   │   ├── q2.png
│   │   ├── q3.png
│   │   ├── q4.png
│   │   ├── q5.png
│   │   ├── ques4.png
│   │   └── question3.png
│   ├── labs
│   │   ├── lab2.md
│   │   └── lab3.md
│   ├── notes
│   └── README.md
├── Desktop
└── Documents

```

