

# 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? apt search 'gtk theme' & sudo apt install yuyo-gtk-theme.
2. Which commands did you use to find and install the web browser? apt search web browser. 3.1 What is the name of the package? qutebrowser-qtwebkit
- 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) 0 upgraded, 31 newly installed, 0 to remove and 21 not upgraded. Need to get 25.3 MB of archives.
- 3.3 How much disk space will the package utilize after installation? After this operation, 106 MB of additional disk space will be used.

## Question 2

```
harold@harold-VirtualBox: /  ×  harold@harold-VirtualBox: /etc/...  ×  ▼
harold@harold-VirtualBox:/$ pwd
/
harold@harold-VirtualBox:/$ cd
harold@harold-VirtualBox:~$ pwd
/home/harold
harold@harold-VirtualBox:~$ cd /usr/share/themes
harold@harold-VirtualBox:/usr/share/themes$ pwd
/usr/share/themes
harold@harold-VirtualBox:/usr/share/themes$ cd /
harold@harold-VirtualBox:/$ cd /etc/firefox/pref
harold@harold-VirtualBox:/etc/firefox/pref$
```

```
harold@harold-VirtualBox: /  ×  harold@harold-VirtualBox: ~/Doc...  ×  ▼
harold@harold-VirtualBox:~$ cd Downloads
harold@harold-VirtualBox:~/Downloads$ cd ../../
harold@harold-VirtualBox:/home$ pwd
/home
harold@harold-VirtualBox:/home$ cd ~/Documents
harold@harold-VirtualBox:~/Documents$
```

### Question 3

```
harold@harold-VirtualBox:~$ ls Downloads/
cat.png      dog3.jpeg    lab2
dog2.jpeg    dog.jpeg     'Which project will you be completing_ Bu'
harold@harold-VirtualBox:~$ ls -a Downloads
.   cat.png      dog3.jpeg    lab2
..  dog2.jpeg    dog.jpeg     'Which project will you be completing_ Bu'
harold@harold-VirtualBox:~$ ls -al Downloads
total 200
drwxr-xr-x  3 harold harold  4096 Oct  7 22:04 .
drwxr-xr-x 20 harold harold  4096 Oct 12 23:56 ..
-rw-rw-r--  1 harold harold 160546 Oct  7 22:01 cat.png
-rw-rw-r--  1 harold harold  5808 Oct  7 22:04 dog2.jpeg
-rw-rw-r--  1 harold harold  4907 Oct  7 22:04 dog3.jpeg
-rw-rw-r--  1 harold harold  4854 Oct  7 22:03 dog.jpeg
drwxrwxr-x  2 harold harold  4096 Oct  1 23:50 lab2
-rw-rw-r--  1 harold harold   656 Oct  1 23:56 'Which project will you be completing_ Bu'
harold@harold-VirtualBox:~$ ls -alh Downloads
total 200K
drwxr-xr-x  3 harold harold  4.0K Oct  7 22:04 .
drwxr-xr-x 20 harold harold  4.0K Oct 12 23:56 ..
-rw-rw-r--  1 harold harold 157K Oct  7 22:01 cat.png
-rw-rw-r--  1 harold harold  5.7K Oct  7 22:04 dog2.jpeg
-rw-rw-r--  1 harold harold  4.8K Oct  7 22:04 dog3.jpeg
-rw-rw-r--  1 harold harold  4.8K Oct  7 22:03 dog.jpeg
drwxrwxr-x  2 harold harold  4.0K Oct  1 23:50 lab2
-rw-rw-r--  1 harold harold   656 Oct  1 23:56 'Which project will you be completing_ Bu'
harold@harold-VirtualBox:~$ ls -lGh Downloads
total 192K
-rw-rw-r--  1 harold 157K Oct  7 22:01 cat.png
-rw-rw-r--  1 harold  5.7K Oct  7 22:04 dog2.jpeg
-rw-rw-r--  1 harold  4.8K Oct  7 22:04 dog3.jpeg
-rw-rw-r--  1 harold  4.8K Oct  7 22:03 dog.jpeg
drwxrwxr-x  2 harold  4.0K Oct  1 23:50 lab2
-rw-rw-r--  1 harold   656 Oct  1 23:56 'Which project will you be completing_ Bu'
harold@harold-VirtualBox:~$
```

## Question 4

```

none/harold/Downloads/
├── cat.png
├── dog2.jpeg
├── dog3.jpeg
├── dog.jpeg
├── lab2
├── lab2.pdf
├── Which project will you be completing? Bu
└── Which project will you be completing_ Bu

directory, 7 files
arold@harold-VirtualBox:~$ tree -pug ~/Downloads/
none/harold/Downloads/
├── [-rw-rw-r-- harold harold ] cat.png
├── [-rw-rw-r-- harold harold ] dog2.jpeg
├── [-rw-rw-r-- harold harold ] dog3.jpeg
├── [-rw-rw-r-- harold harold ] dog.jpeg
├── [dwxrwxr-x harold harold ] lab2
├── [-rw-rw-r-- harold harold ] lab2.pdf
├── [-rw-rw-r-- harold harold ] Which project will you be completing? Bu
└── [-rw-rw-r-- harold harold ] Which project will you be completing_ Bu

directory, 7 files
arold@harold-VirtualBox:~$ tree -pugh ~/Downloads/
none/harold/Downloads/
├── [-rw-rw-r-- harold harold 157K] cat.png
├── [-rw-rw-r-- harold harold 5.7K] dog2.jpeg
├── [-rw-rw-r-- harold harold 4.8K] dog3.jpeg
├── [-rw-rw-r-- harold harold 4.7K] dog.jpeg
├── [dwxrwxr-x harold harold 4.8K] lab2
├── [-rw-rw-r-- harold harold 1.2M] lab2.pdf
├── [-rw-rw-r-- harold harold 656] Which project will you be completing? Bu
└── [-rw-rw-r-- harold harold 656] Which project will you be completing_ Bu

directory, 7 files
arold@harold-VirtualBox:~$ tree -pught ~/Downloads/
none/harold/Downloads/
├── [dwxrwxr-x harold harold 4.8K] lab2
├── [-rw-rw-r-- harold harold 1.2M] lab2.pdf
├── [-rw-rw-r-- harold harold 656] Which project will you be completing? Bu
├── [-rw-rw-r-- harold harold 656] Which project will you be completing_ Bu
├── [-rw-rw-r-- harold harold 157K] cat.png
├── [-rw-rw-r-- harold harold 4.7K] dog.jpeg
├── [-rw-rw-r-- harold harold 5.7K] dog2.jpeg
└── [-rw-rw-r-- harold harold 4.8K] dog3.jpeg

directory, 7 files
arold@harold-VirtualBox:~$ tree -t ~/Downloads/
none/harold/Downloads/
├── lab2
├── lab2.pdf
├── Which project will you be completing? Bu
├── Which project will you be completing_ Bu
├── cat.png
├── dog.jpeg
├── dog2.jpeg
└── dog3.jpeg

directory, 7 files

```

```

1 directory, 7 files
harold@harold-VirtualBox:~$ tree -Ho Downloads/ website.html
harold@harold-VirtualBox:~$ ls
cis-106 Documents Music Public Templates website.html
Desktop Downloads Pictures snap Videos
harold@harold-VirtualBox:~$ xdg-open website.html
harold@harold-VirtualBox:~$

```

## Question 5

```

harold@harold-VirtualBox:~$ exa -l Downloads/
.rw-rw-r-- 160k harold 7 Oct 22:01 cat.png
.rw-rw-r-- 4.9k harold 7 Oct 22:03 dog.jpeg
.rw-rw-r-- 5.8k harold 7 Oct 22:04 dog2.jpeg
.rw-rw-r-- 4.9k harold 7 Oct 22:04 dog3.jpeg
drwxrwxr-x - harold 1 Oct 23:50 lab2
.rw-rw-r-- 656 harold 1 Oct 23:56 Which project will you be completing_
Bu

harold@harold-VirtualBox:~$ exa -ht Downloads/
cis-106 Downloads Pictures Templates
Desktop exa_0.9.0-4_amd64.deb Public Videos
Documents Music snap website.html

```

```

- (s0)
harold@harold-VirtualBox:~$ tree --help
usage: tree [-acdfghilnpqrstuvxACDFJQNSUX] [-H baseHREF] [-T title]
          [-L level [-R]] [-P pattern] [-I pattern] [-o filename] [--version]
          [--help] [--inodes] [--device] [--noreport] [--nolinks] [--dirsfirst]
          [--charset charset] [--filelimit[=]#] [--si] [--timefmt[=]<f>]
          [--sort[=]<name>] [--matchdirs] [--ignore-case] [--fromfile] [--]
          [<directory list>]
----- Listing options -----
-a          All files are listed.
-d          List directories only.
-l          Follow symbolic links like directories.
-f          Print the full path prefix for each file.
-x          Stay on current filesystem only.
-L level    Descend only level directories deep.
-R          Rerun tree when max dir level reached.
-P pattern  List only those files that match the pattern given.
-I pattern  Do not list files that match the given pattern.
--ignore-case Ignore case when pattern matching.
--matchdirs Include directory names in -P pattern matching.
--noreport  Turn off file/directory count at end of tree listing.
--charset X Use charset X for terminal/HTML and indentation line output.
--filelimit # Do not descend dirs with more than # files in them.
--timefmt <f> Print and format time according to the format <f>.
-o filename Output to file instead of stdout.
----- File options -----

```

```

harold@harold-VirtualBox:~$ tree -d

```

```

.
├── cis-106
│   ├── images
│   ├── labs
│   │   └── lab3.md
│   └── nodes
├── Desktop
├── Documents
├── Downloads
│   └── lab2
├── Music
├── Pictures
├── Public
├── snap
│   └── code
│       ├── 75
│       ├── 76
│       ├── common
│       └── current -> 75
├── Templates
└── Videos

```

```

20 directories

```

```

harold@harold-VirtualBox:~$ tree -h

```

```

harold@harold-VirtualBox:~$ tree -h
.
├── [4.0K] cis-106
│   ├── [4.0K] images
│   │   ├── [385K] Lab2- 4.PNG
│   │   ├── [ 59K] Lab2.PNG
│   │   ├── [852K] Lab2-Q3.PNG
│   │   ├── [385K] Lab2-Q4.PNG
│   │   ├── [112K] Lab2-Q5.PNG
│   │   ├── [ 34K] labq2-1.png
│   │   ├── [ 29K] labq2.png
│   │   ├── [133K] labq3.png
│   │   ├── [ 17K] labq4-1.png
│   │   └── [ 36K] labq4.png
│   ├── [189K] img1.PNG
│   ├── [ 29K] img2.PNG
│   ├── [ 29K] img3.PNG
│   ├── [ 21K] img4.PNG
│   ├── [5.0K] Lab1.md
│   ├── [292K] Lab1.pdf
│   ├── [4.0K] labs
│   │   ├── [7.7K] lab2.html
│   │   ├── [623K] lab2.jpeg
│   │   ├── [ 368] lab2.md
│   │   ├── [1.2M] lab2.pdf
│   │   ├── [834K] lab2.png
│   │   └── [4.0K] lab3.md
│   │       └── [1.1K] # Lab 3 | Installing software and naviga.md
│   ├── [4.0K] nodes
│   └── [ 67] README.md
├── [4.0K] Desktop
│   └── [ 549] org.gnome.Terminal.desktop
├── [4.0K] Documents
├── [4.0K] Downloads
│   ├── [157K] cat.png
│   ├── [5.7K] dog2.jpeg
│   ├── [4.8K] dog3.jpeg
│   ├── [4.7K] dog.jpeg
│   ├── [4.0K] lab2
│   │   └── [1.2M] lab2.pdf
│   └── [ 656] Which project will you be completing? Bu
└── [4.0K] Music
    ├── [4.0K] Pictures
    ├── [4.0K] Public
    ├── [4.0K] snap
    ├── [4.0K] code
    │   ├── [4.0K] 75
    │   ├── [4.0K] 76
    │   ├── [4.0K] common
    │   └── [ 2] current -> 75
    ├── [4.0K] Templates
    ├── [4.0K] Videos
    └── [6.2K] website.html

20 directories, 33 files
harold@harold-VirtualBox:~$

```