

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

Assignment description [here](#)

Question 1

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

apt search software name(theme)

sudo apt install package name(yuyo-gtk-theme)

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

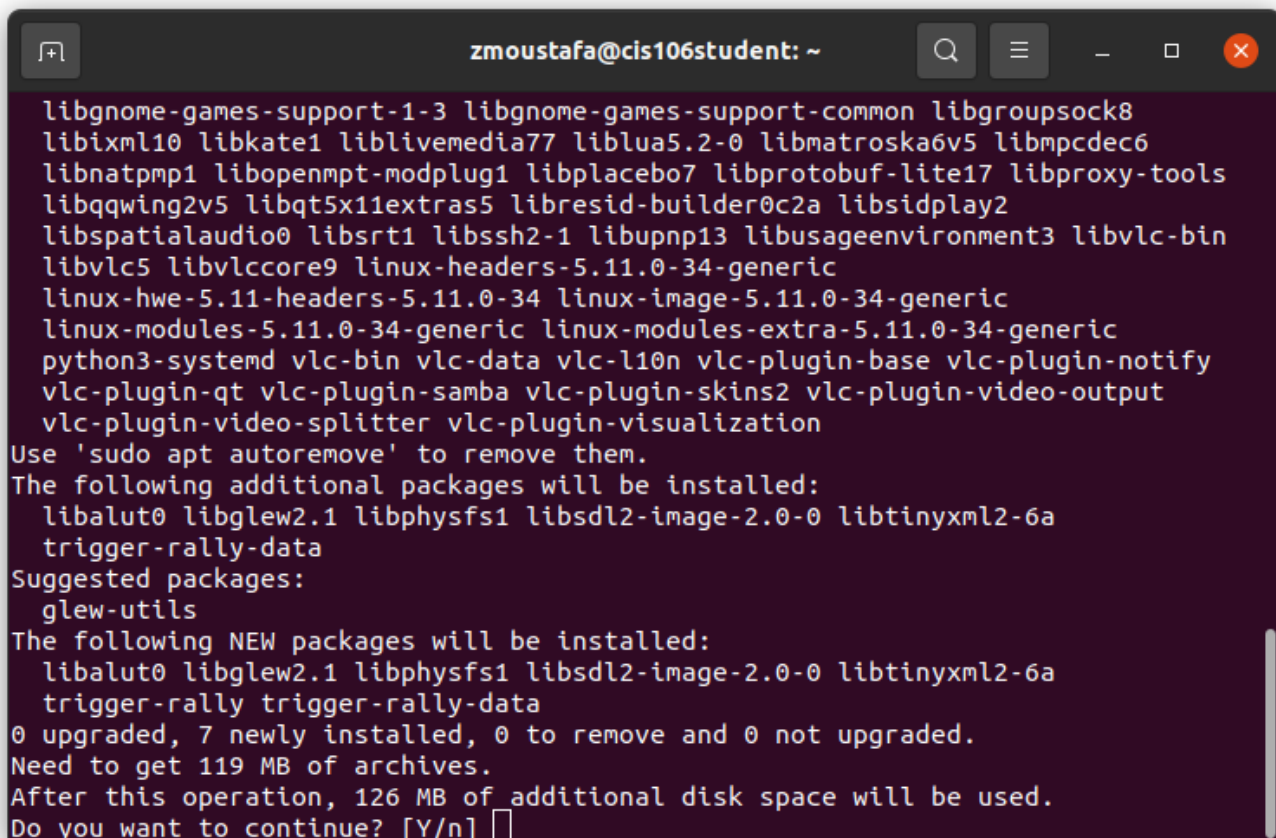
sudo apt search software name(alternative web browser)

sudo apt install package name(wikipedia2text)

3.1 What is the name of the package?

trigger-rally

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)

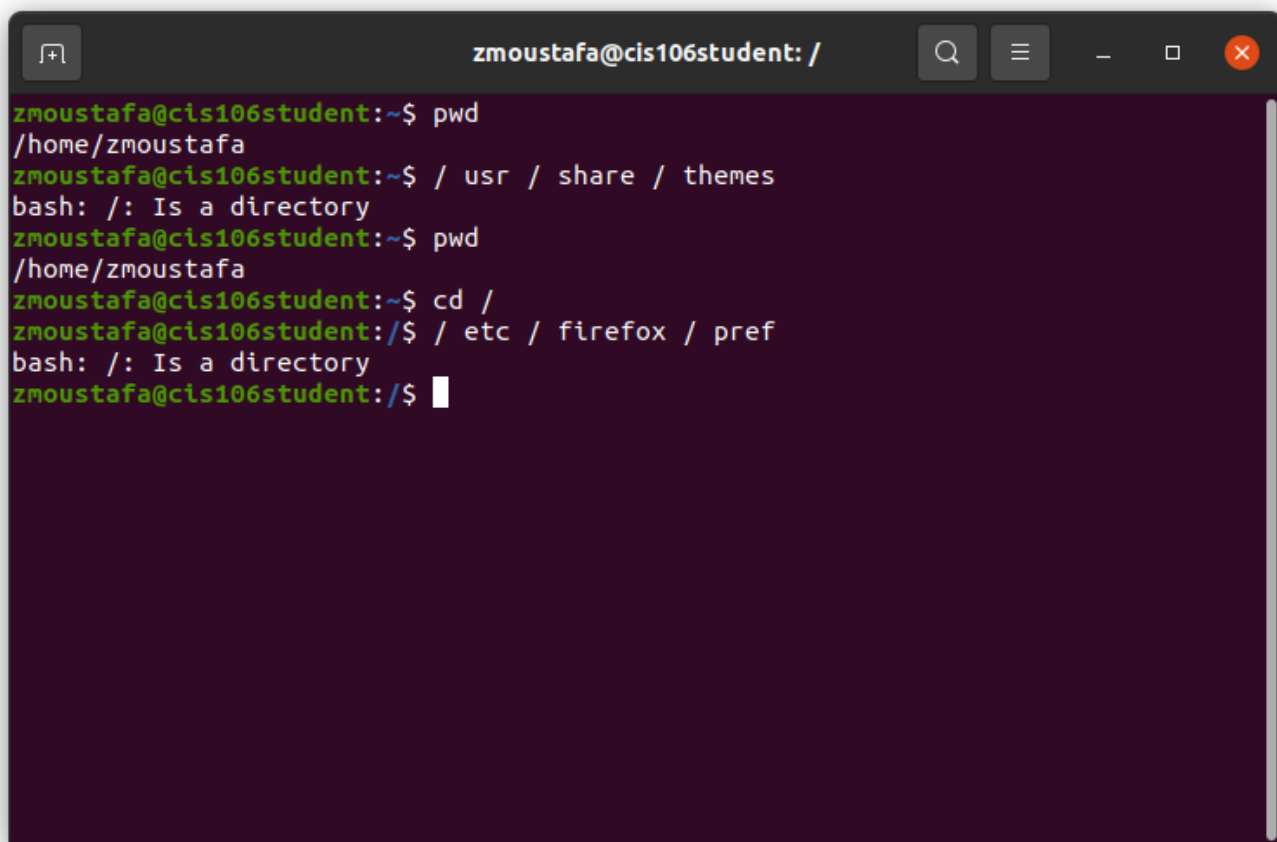
A terminal window with a dark background and light text. The window title is 'zmoustafa@cis106student: ~'. The terminal output shows the installation of 'trigger-rally'. It lists many additional packages that will be installed, including libgnome-games-support, libxaml, libkate, liblivemedia, liblua, libmatroska, libmpcdec, libnatpmp, libopenmpt-modplug, libplacebo, libprotobuf-lite, libproxy-tools, libqqwing, libqt5x11extras, libresid-builder, libsidplay, libspatialaudio, libstrt, libssh2, libupnp, libusageenvironment, libvlc-bin, libvlc5, libvlccore, linux-headers, linux-hwe-headers, linux-image, linux-modules, python3-systemd, vlc-bin, vlc-data, vlc-l10n, vlc-plugin-base, vlc-plugin-notify, vlc-plugin-qt, vlc-plugin-samba, vlc-plugin-skins2, vlc-plugin-video-output, vlc-plugin-video-splitter, and vlc-plugin-visualization. It also shows suggested packages like glew-utils and the final confirmation prompt 'Do you want to continue? [Y/n]'.

```
zmoustafa@cis106student: ~  
libgnome-games-support-1-3 libgnome-games-support-common libgroupsock8  
libxaml10 libkate1 liblivemedia77 liblua5.2-0 libmatroska6v5 libmpcdec6  
libnatpmp1 libopenmpt-modplug1 libplacebo7 libprotobuf-lite17 libproxy-tools  
libqqwing2v5 libqt5x11extras5 libresid-builder0c2a libsidplay2  
libspatialaudio0 libstrt1 libssh2-1 libupnp13 libusageenvironment3 libvlc-bin  
libvlc5 libvlccore9 linux-headers-5.11.0-34-generic  
linux-hwe-5.11-headers-5.11.0-34 linux-image-5.11.0-34-generic  
linux-modules-5.11.0-34-generic linux-modules-extra-5.11.0-34-generic  
python3-systemd vlc-bin vlc-data vlc-l10n vlc-plugin-base vlc-plugin-notify  
vlc-plugin-qt vlc-plugin-samba vlc-plugin-skins2 vlc-plugin-video-output  
vlc-plugin-video-splitter vlc-plugin-visualization  
Use 'sudo apt autoremove' to remove them.  
The following additional packages will be installed:  
  libalut0 libglew2.1 libphysfs1 libsdl2-image-2.0-0 libtinysql2-6a  
  trigger-rally-data  
Suggested packages:  
  glew-utils  
The following NEW packages will be installed:  
  libalut0 libglew2.1 libphysfs1 libsdl2-image-2.0-0 libtinysql2-6a  
  trigger-rally trigger-rally-data  
0 upgraded, 7 newly installed, 0 to remove and 0 not upgraded.  
Need to get 119 MB of archives.  
After this operation, 126 MB of additional disk space will be used.  
Do you want to continue? [Y/n]
```

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

126 MB

Question 2



```
zmoustafa@cis106student: /  
zmoustafa@cis106student:~$ pwd  
/home/zmoustafa  
zmoustafa@cis106student:~$ / usr / share / themes  
bash: /: Is a directory  
zmoustafa@cis106student:~$ pwd  
/home/zmoustafa  
zmoustafa@cis106student:~$ cd /  
zmoustafa@cis106student:/$ / etc / firefox / pref  
bash: /: Is a directory  
zmoustafa@cis106student:/$
```


```
zmoustafa@cis106student: ~/Documents
zmoustafa@cis106student:~$ cd
zmoustafa@cis106student:~$ cd Downloads
zmoustafa@cis106student:~/Downloads$ cd ..
zmoustafa@cis106student:~$ pwd
/home/zmoustafa
zmoustafa@cis106student:~$ cd Documents
zmoustafa@cis106student:~/Documents$
```

Question 3

```
zmoustafa@cis106student: ~
zmoustafa@cis106student:~$ ls Downloads/
soccer1.jpg soccer2.jpeg soccer3.jpeg
zmoustafa@cis106student:~$ ls -a Downloads/
. .. soccer1.jpg soccer2.jpeg soccer3.jpeg
zmoustafa@cis106student:~$ ls -al Downloads/
total 856
drwxr-xr-x  2 zmoustafa zmoustafa  4096 Oct  6 22:03 .
drwxr-xr-x 20 zmoustafa zmoustafa  4096 Oct  6 20:59 ..
-rw-rw-r--  1 zmoustafa zmoustafa 755036 Oct  6 22:02 soccer1.jpg
-rw-rw-r--  1 zmoustafa zmoustafa   6396 Oct  6 22:03 soccer2.jpeg
-rw-rw-r--  1 zmoustafa zmoustafa 102343 Oct  6 22:03 soccer3.jpeg
zmoustafa@cis106student:~$ ls -ah Downloads/
. .. soccer1.jpg soccer2.jpeg soccer3.jpeg
zmoustafa@cis106student:~$ ls -ahl Downloads/
total 856K
drwxr-xr-x  2 zmoustafa zmoustafa 4.0K Oct  6 22:03 .
drwxr-xr-x 20 zmoustafa zmoustafa 4.0K Oct  6 20:59 ..
-rw-rw-r--  1 zmoustafa zmoustafa 738K Oct  6 22:02 soccer1.jpg
-rw-rw-r--  1 zmoustafa zmoustafa 6.3K Oct  6 22:03 soccer2.jpeg
-rw-rw-r--  1 zmoustafa zmoustafa 100K Oct  6 22:03 soccer3.jpeg
zmoustafa@cis106student:~$ ls -hG Downloads
soccer1.jpg soccer2.jpeg soccer3.jpeg
```

Question 4

```


zmostafa@cis106student: ~

zmostafa@cis106student:~$ tree ~/Downloads/
/home/zmostafa/Downloads/
├── soccer1.jpg
├── soccer2.jpeg
├── soccer3.jpeg
└──

0 directories, 3 files

zmostafa@cis106student:~$ tree -pugh ~/Downloads/
/home/zmostafa/Downloads/
├── [-rw-rw-r-- zmostafa zmostafa 737K] soccer1.jpg
├── [-rw-rw-r-- zmostafa zmostafa 6.2K] soccer2.jpeg
├── [-rw-rw-r-- zmostafa zmostafa 100K] soccer3.jpeg
└──

0 directories, 3 files

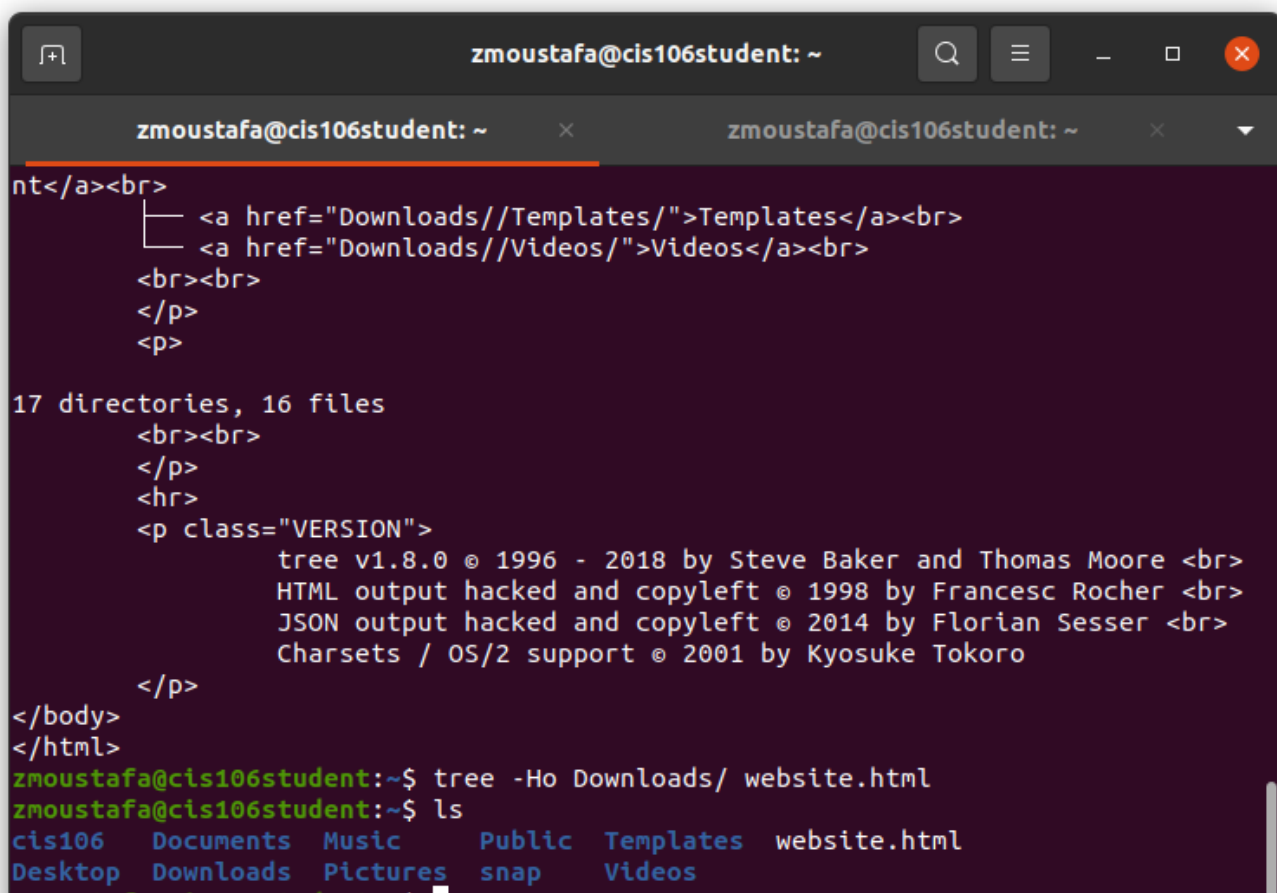
zmostafa@cis106student:~$ tree -t ~/Downloads/
/home/zmostafa/Downloads/
├── soccer1.jpg
├── soccer3.jpeg
├── soccer2.jpeg
└──

0 directories, 3 files

zmostafa@cis106student:~$ tree -H Downloads/
<DOCTYPE html>
<html>
<head>

```

[illegible]

A terminal window with a dark background and light text. The window title is 'zmoustafa@cis106student: ~'. It shows the output of a command that generated an HTML document. The HTML content includes links to 'Templates' and 'Videos' directories, a footer with version information for 'tree v1.8.0', and a directory listing. The terminal shows the user running 'tree -Ho Downloads/ website.html' and 'ls', resulting in a listing of files and directories including 'cis106', 'Documents', 'Music', 'Public', 'Templates', 'website.html', 'Desktop', 'Downloads', 'Pictures', 'snap', and 'Videos'.

```
zmoustafa@cis106student: ~  
nt</a><br>  
  └─ <a href="Downloads//Templates/">Templates</a><br>  
    <a href="Downloads//Videos/">Videos</a><br>  
<br><br>  
</p>  
<p>  
17 directories, 16 files  
<br><br>  
</p>  
<hr>  
<p class="VERSION">  
    tree v1.8.0 © 1996 - 2018 by Steve Baker and Thomas Moore <br>  
    HTML output hacked and copyleft © 1998 by Francesc Rocher <br>  
    JSON output hacked and copyleft © 2014 by Florian Sesser <br>  
    Charsets / OS/2 support © 2001 by Kyosuke Tokoro  
</p>  
</body>  
</html>  
zmoustafa@cis106student:~$ tree -Ho Downloads/ website.html  
zmoustafa@cis106student:~$ ls  
cis106  Documents  Music      Public    Templates website.html  
Desktop Downloads  Pictures   snap      Videos
```

Question 5

```

zmoustafa@cis106student: ~
zmoustafa@cis106student: ~
zmoustafa@cis106student:~$ wget http://archive.ubuntu.com/ubuntu/pool/universe/r/rust-exa/exa_0.9.0-4_amd64.deb
--2021-10-07 03:50:30-- http://archive.ubuntu.com/ubuntu/pool/universe/r/rust-exa/exa_0.9.0-4_amd64.deb
Resolving archive.ubuntu.com (archive.ubuntu.com)... 91.189.88.152, 91.189.88.142, 2001:67c:1360:8001::24, ...
Connecting to archive.ubuntu.com (archive.ubuntu.com)|91.189.88.152|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 301592 (295K) [application/x-debian-package]
Saving to: 'exa_0.9.0-4_amd64.deb'

exa_0.9.0-4_amd64.d 100%[=====>] 294.52K  98.1KB/s   in 3.0s

2021-10-07 03:50:34 (98.1 KB/s) - 'exa_0.9.0-4_amd64.deb' saved [301592/301592]

zmoustafa@cis106student:~$ ls
cis106  Documents  exa_0.9.0-4_amd64.deb  Pictures  snap      Videos
Desktop Downloads  Music                 Public    Templates website.html
zmoustafa@cis106student:~$ sudo apt install ./exa_0.9.0-4_amd64.deb
[sudo] password for zmoustafa:
Reading package lists... Done
Building dependency tree

```

```

zmoustafa@cis106student: ~
zmoustafa@cis106student: ~
exa_0.9.0-4_amd64.d 100%[=====>] 294.52K  98.1KB/s   in 3.0s

2021-10-07 03:50:34 (98.1 KB/s) - 'exa_0.9.0-4_amd64.deb' saved [301592/301592]

zmoustafa@cis106student:~$ ls
cis106  Documents  exa_0.9.0-4_amd64.deb  Pictures  snap      Videos
Desktop Downloads  Music                 Public    Templates website.html
zmoustafa@cis106student:~$ sudo apt install ./exa_0.9.0-4_amd64.deb
[sudo] password for zmoustafa:
Reading package lists... Done
Building dependency tree
Reading state information... Done
Note, selecting 'exa' instead of './exa_0.9.0-4_amd64.deb'
The following packages were automatically installed and are no longer required:
  apport-symptoms guile-2.2-libs libbasicusageenvironment1 libcddb2 libdca0
  libdvbpsi10 libebml4v5 libevent-2.1-7 libfaad2 libgc1c2
  libgnome-games-support-1-3 libgnome-games-support-common libgroupsock8
  libxml10 libkate1 liblivemedia77 liblua5.2-0 libmatroska6v5 libmpcdec6
  libnatpmp1 libopenmpt-modplug1 libplacebo7 libprotobuf-lite17 libproxy-tools
  libqqwing2v5 libqt5x11extras5 libresid-builder0c2a libsidplay2
  libspatialaudio0 libstr1 libssh2-1 libupnp13 libusageenvironment3 libvlc-bin
  libvlc5 libvlccore9 linux-headers-5.11.0-34-generic
  linux-hwe-5.11-headers-5.11.0-34 linux-image-5.11.0-34-generic

```

```
zmostafa@cis106student: ~  
libvlc5 libvlccore9 linux-headers-5.11.0-34-generic  
linux-hwe-5.11-headers-5.11.0-34 linux-image-5.11.0-34-generic  
linux-modules-5.11.0-34-generic linux-modules-extra-5.11.0-34-generic  
python3-systemd vlc-bin vlc-data vlc-l10n vlc-plugin-base vlc-plugin-notify  
vlc-plugin-qt vlc-plugin-samba vlc-plugin-skins2 vlc-plugin-video-output  
vlc-plugin-video-splitter vlc-plugin-visualization  
Use 'sudo apt autoremove' to remove them.  
The following NEW packages will be installed:  
  exa  
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.  
Need to get 0 B/302 kB of archives.  
After this operation, 890 kB of additional disk space will be used.  
Get:1 /home/zmostafa/exa_0.9.0-4_amd64.deb exa amd64 0.9.0-4 [302 kB]  
Selecting previously unselected package exa.  
(Reading database ... 259005 files and directories currently installed.)  
Preparing to unpack .../exa_0.9.0-4_amd64.deb ...  
Unpacking exa (0.9.0-4) ...  
Setting up exa (0.9.0-4) ...  
Processing triggers for man-db (2.9.1-1) ...  
zmostafa@cis106student:~$ exa -l Downloads/  
.rw-rw-r-- 755k zmostafa 6 Oct 22:02 soccer1.jpg  
.rw-rw-r-- 6.4k zmostafa 6 Oct 22:03 soccer2.jpeg  
.rw-rw-r-- 102k zmostafa 6 Oct 22:03 soccer3.jpeg
```