

# 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 theme sudo apt install yuyo-gpk-theme
2. Which commands did you use to find and install the web browser? apt search 'web browser' sudo apt install chrome-gnome-shell

2.1 What is the name of the package? chrome-gnome-shell

2.2 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)

```
chrome-gnome-shell/focal,focal,now 10.1-5 all [installed,automatic]  
GNOME Shell extensions integration for web browsers
```

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

## Question 2

```
koto@koto: /etc/firefox/pref
koto@koto:~$ pwd
/home/koto
koto@koto:~$ cd
koto@koto:~$ cd /usr/share/themes
koto@koto:/usr/share/themes$
koto@koto:/usr/share/themes$ cd ..
koto@koto:/usr/share$ cd..
cd..: command not found
koto@koto:/usr/share$ cd .
koto@koto:/usr/share$ cd ..
koto@koto:/usr$ cd ..
koto@koto:/$ cd ..
koto@koto:/$ cd ..
koto@koto:/$ cd /etc/firefox/pref
koto@koto:/etc/firefox/pref$
```

```
koto@koto: ~/Documents
koto@koto:/etc/firefox/pref$ cd
koto@koto:~$ cd Downloads
koto@koto:~/Downloads$ cd ..
koto@koto:~$ pwd
/home/koto
koto@koto:~$ ls
CIS-106  Documents  Music      Public    Templates
Desktop  Downloads  Pictures   snap      Videos
koto@koto:~$ cd Documents
koto@koto:~/Documents$ pwd
/home/koto/Documents
koto@koto:~/Documents$
```

### Question 3

```
koto@koto: ~  
koto@koto: ~  
koto@koto:~$ ls  
CIS-106 Documents Music Public Templates  
Desktop Downloads Pictures snap Videos  
koto@koto:~$ cd ^C  
koto@koto:~$ cd Downloads  
koto@koto:~/Downloads$ cd ~  
koto@koto:~$ ls Downloads  
'Absolute Path VS Relative Path Cheat sheet.png'  
itachi0.jpg  
itachi2.jpg  
itachi.jpg  
'Linux Workshop Ubuntu Software installation cheat sheet  
.png'  
koto@koto:~$ pwd  
/home/koto  
koto@koto:~$ ls Downloads  
'Absolute Path VS Relative Path Cheat sheet.png'  
itachi0.jpg  
itachi2.jpg  
itachi.jpg  
'Linux Workshop Ubuntu Software installation cheat sheet  
.png'  
koto@koto:~$ ls -a Downloads  
.  
..  
'Absolute Path VS Relative Path Cheat sheet.png'  
itachi0.jpg  
itachi2.jpg  
itachi.jpg  
'Linux Workshop Ubuntu Software installation cheat sheet  
.png'  
koto@koto:~$ ls -al Downloads  
total 1020  
drwxr-xr-x  2 koto koto   4096 Oct  6 12:46 .  
drwxr-xr-x 21 koto koto   4096 Oct  6 11:43 ..  
-rw-rw-r--  1 koto koto 222902 Oct  6 11:50 'Absolute Pa  
th VS Relative Path Cheat sheet.png'  
-rw-rw-r--  1 koto koto  18335 Oct  6 12:46 itachi0.jpg  
-rw-rw-r--  1 koto koto   32276 Oct  6 12:45 itachi2.jpg  
-rw-rw-r--  1 koto koto   58142 Oct  6 12:45 itachi.jpg  
-rw-rw-r--  1 koto koto 693580 Oct  6 11:50 'Linux Works  
hop Ubuntu Software installation cheat sheet.png'  
koto@koto:~$ ls -ah Downloads  
.  
..  
'Absolute Path VS Relative Path Cheat sheet.png'  
itachi0.jpg  
itachi2.jpg  
itachi.jpg  
'Linux Workshop Ubuntu Software installation cheat sheet  
.png'  
koto@koto:~$ ls -h Downloads
```

```
'Absolute Path VS Relative Path Cheat sheet.png'
itachi0.jpg
itachi2.jpg
itachi.jpg
'Linux Workshop Ubuntu Software installation cheat sheet
.png'
koto@koto:~$
```

## Question 4

```
koto@koto: ~
koto@koto: ~
koto@koto:~$ tree ~/Downloads
home/koto/Downloads
├── Absolute Path VS Relative Path Cheat sheet.png
├── itachi0.jpg
├── itachi2.jpg
├── itachi.jpg
└── Linux Workshop Ubuntu Software installation cheat sheet.png

directories, 5 files
koto@koto:~$ tree -pugh ~/Downloads
home/koto/Downloads
├── [-rw-rw-r-- koto    koto    218K] Absolute Path VS Relative Path Cheat sheet.png
├── [-rw-rw-r-- koto    koto    18K]  itachi0.jpg
├── [-rw-rw-r-- koto    koto    32K]  itachi2.jpg
├── [-rw-rw-r-- koto    koto    57K]  itachi.jpg
└── [-rw-rw-r-- koto    koto   677K]  Linux Workshop Ubuntu Software installation chea
sheet.png

directories, 5 files
koto@koto:~$ tree -Dt ~/Downloads
home/koto/Downloads
├── [Oct  6 11:50] Linux Workshop Ubuntu Software installation cheat sheet.png
├── [Oct  6 11:50] Absolute Path VS Relative Path Cheat sheet.png
├── [Oct  6 12:45] itachi.jpg
├── [Oct  6 12:45] itachi2.jpg
└── [Oct  6 12:46] itachi0.jpg

directories, 5 files
koto@koto:~$ tree -H ~/Downloads
!DOCTYPE html>
html>
head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<meta name="Author" content="Made by 'tree'">
<meta name="GENERATOR" content="$Version: $ tree v1.8.0 (c) 1996 - 2018 by Steve Baker,
thomas Moore, Francesc Rocher, Florian Sesser, Kyosuke Tokoro $">
<title>Directory Tree</title>
<style type="text/css">
<!--
ated with 1 local
```

## Question 5

```

koto@koto: ~
koto@koto: ~
koto@koto:~$ wget http://archive.ubuntu.com/ubuntu/pool/universe/r/rust-exa/exa_0
9.0-4_amd64.deb
-2021-10-06 13:27:36-- http://archive.ubuntu.com/ubuntu/pool/universe/r/rust-ex
/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... connec
ed.
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_a 100% 294.52K 842KB/s in 0.3s

2021-10-06 13:27:36 (842 KB/s) - 'exa_0.9.0-4_amd64.deb' saved [301592/301592]

koto@koto:~$ ls
IS-106      exa_0.9.0-4_amd64.deb  snap
desktop    Music                  Templates
Documents  Pictures               Videos
Downloads  Public                 website.html
koto@koto:~$ sudo apt install ./exa_0.9.0-4_amd64.deb
[sudo] password for koto:
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 NEW packages will be installed:
  exa
0 upgraded, 1 newly installed, 0 to remove and 1 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/koto/exa_0.9.0-4_amd64.deb exa amd64 0.9.0-4 [302 kB]
Selecting previously unselected package exa.
Reading database ... 229890 files and directories curre
ntly installed.)
Preparing to unpack .../koto/exa_0.9.0-4_amd64.deb ...
Unpacking exa (0.9.0-4) ...
Setting up exa (0.9.0-4) ...

koto@koto:~$ exa Downloads
Absolute Path VS Relative Path Cheat sheet.png
itachi.jpg
itachi0.jpg
itachi2.jpg
Linux Workshop Ubuntu Software installation cheat sheet.png
koto@koto:~$ exa -l Downloads
.rw-rw-r-- 222k koto 6 Oct 11:50 Absolute Path VS Relative Path Cheat sheet.png
.rw-rw-r-- 58k koto 6 Oct 12:45 itachi.jpg
.rw-rw-r-- 18k koto 6 Oct 12:46 itachi0.jpg
.rw-rw-r-- 32k koto 6 Oct 12:45 itachi2.jpg
.rw-rw-r-- 693k koto 6 Oct 11:50 Linux Workshop Ubuntu Software installation che
at sheet.png
koto@koto:~$ exa -lht Downloads
Option --time (-t) has no "Downloads" setting (choices: modified, changed, access
ed, created)

```