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?
 - For searching a theme is used the "apt search theme" command
 - For the installing the theme I used "sudo apt install" command with the name of the theme
- 2. Which commands did you use to find and install the web browser?
 - For searching a theme is used the "apt search web browser" command
 - For the installation I used "sudo apt install" and the name of the browser chosen
- 3. 3.1 What is the name of the package?
 - The package is called "xwelltris"
- 4. 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)

```
iguel-VirtualBox:~$ sudo apt install xwelltris
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  apport-symptoms guile-2.2-libs libevent-2.1-7 libgc1c2 libgnome-games-support-1-3
  libgnome-games-support-common libnatpmp1 libqqwing2v5 linux-headers-5.11.0-27-generic
  linux-hwe-5.11-headers-5.11.0-27 linux-image-5.11.0-27-generic linux-modules-5.11.0-27-generic
 linux-modules-extra-5.11.0-27-generic python3-systemd
Use 'sudo apt autoremove' to remove them
The following NEW packages will be installed:
 xwelltris
O upgraded, 1 newly installed, O to remove and O not upgraded.
Need to get 296 kB of archives.
After this operation, 424 kB of additional disk space will be used.
Get:1 http://us.archive.ubuntu.com/ubuntu focal/universe amd64 xwelltris amd64 1.0.1-17build1 [296 kB]
Fetched 296 kB in 0s (1,836 kB/s)
Selecting previously unselected package xwelltris.
(Reading database ... 259696 files and directories currently installed.)
Preparing to unpack .../xwelltris_1.0.1-17build1_amd64.deb ...
Unpacking xwelltris (1.0.1-17build1) ...
Setting up xwelltris (1.0.1-17build1) ...
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...
Processing triggers for mime-support (3.64ubuntu1) ..
Processing triggers for gnome-menus (3.36.0-1ubuntu1) \dots
Processing triggers for man-db (2.9.1-1) ...
 iguel@miguel-VirtualBox:~$
```

- 3.3 How much disk space will the package utilize after installation?
 - The package will use 296 kb of storage

```
iguel@miguel-VirtualBox:~$ pwd
/home/miguel
niguel@miguel-VirtualBox:~$ cd /usr/share/themes
niguel@miguel-VirtualBox:/usr/share/themes$ pdw
Command 'pdw' not found, did you mean:
 command 'ptw' from snap ptw (1.0.0)
 command 'pfw' from deb pftools (3+dfsg-3)
 command 'cdw' from deb cdw (0.8.1-1build4)
 command 'psw' from deb wise (2.4.1-21)
 command 'paw' from deb paw-common (1:2.14.04.dfsg.2-9.1build4)
 command 'pda' from deb speech-tools (1:2.5.0-8build1)
 command 'pdl' from deb pdl (1:2.020-3)
 command 'pmw' from deb pmw (1:4.30-1)
 command 'pdd' from deb pdd (1.4-2)
 command 'pd' from deb puredata-core (0.50.2-3ubuntu0.1)
 command 'pwd' from deb coreutils (8.30-3ubuntu2)
See 'snap info <snapname>' for additional versions.
niguel@miguel-VirtualBox:/usr/share/themes$ pwd
/usr/share/themes
miguel@miguel-VirtualBox:/usr/share/themes$ cd
miguel@miguel-VirtualBox:~$ cd /root/
bash: cd: /root/: Permission denied
miguel@miguel-VirtualBox:~$ sudo cd /root/
[sudo] password for miguel:
sudo: cd: command not found
miguel@miguel-VirtualBox:~$ cd /root/etc/firefox/pref
bash: cd: /root/etc/firefox/pref: Permission denied
miguel@miguel-VirtualBox:~$ cd
niquel@miguel-VirtualBox:~$ cd /etc/firefox/pref
niguel@miguel-VirtualBox:/etc/firefox/pref$
```

```
miguel@miguel-VirtualBox:~$ pwd
/home/miguel
miguel@miguel-VirtualBox:~$ cd Downloads/
miguel@miguel-VirtualBox:~/Downloads$ cd
miguel@miguel-VirtualBox:~$ cd Documents/
miguel@miguel-VirtualBox:~/Documents$
```

```
iguel@miguel-VirtualBox:~$ pwd
/home/miquel
niguel@miguel-VirtualBox:~$ ls -a Downloads/
niguel@miguel-VirtualBox:~$ ls -a Downloads/+
ls: cannot access 'Downloads/+': No such file or directory
niguel@miguel-VirtualBox:~$ ls -a Downloads/
     cat.jpeg dog.jpg ps5.jpg
riguel@miguel-VirtualBox:~$ ls -al Downloads/
total 536
drwxr-xr-x 2 miguel miguel 4096 Oct 6 16:51 .
drwxr-xr-x 20 miguel miguel 4096 Oct 6 15:13 ...
-rw-rw-r-- 1 miguel miguel 5429 Oct 6 16:51 cat.jpeg
rw-rw-r-- 1 miguel miguel 526866 Oct 6 16:51 dog.jpg
rw-rw-r-- 1 miquel miquel 3349 Oct 6 16:51 ps5.jpg
niguel@miguel-VirtualBox:~$ ls -alh Downloads/
total 536K
drwxr-xr-x 2 miguel miguel 4.0K Oct 6 16:51 .
drwxr-xr-x 20 miguel miguel 4.0K Oct  6 15:13 ...
-rw-rw-r-- 1 miguel miguel 5.4K Oct  6 16:51 cat.jpeg
-rw-rw-r-- 1 miguel miguel 515K Oct  6 16:51 dog.jpg
-rw-rw-r-- 1 miguel miguel 3.3K Oct  6 16:51 ps5.jpg
niguel@miguel-VirtualBox:~$ ls -alhg Downloads/
total 536K
drwxr-xr-x 2 miguel 4.0K Oct 6 16:51 .
drwxr-xr-x 20 miguel 4.0K Oct  6 15:13 ...
rw-rw-r-- 1 miguel 3.3K Oct 6 16:51 ps5.jpg
niguel@miguel-VirtualBox:~$ ls -lhgG Downloads/
total 528K
niquel@miquel-VirtualBox:~$
```

```
riguel@miguel-VirtualBox:~$ tree ~/Downloads/
0 directories, 3 files
 iquel@miguel-VirtualBox:~$ tree -pug ~/Downloads/
  - [-rw-rw-r-- miguel
                                 ]
                         miguel
   [-rw-rw-r-- miguel
                         miguel
 — [-rw-rw-r-- miguel
                         miguel
0 directories, 3 files
 iguel@miguel-VirtualBox:~$ tree -pugh ~/Downloads/
  - [-rw-rw-r-- miquel
                         miguel
                                  5.3K]
   ·[-rw-rw-r-- miguel
                         miguel
                                  515K]
 — [-rw-rw-r-- miguel
                         miquel
                                  3.3K]
0 directories, 3 files
riguel@miguel-VirtualBox:~$ tree -pughtD ~/Downloads/
  - [-rw-rw-r-- miguel
                         miguel
                                  3.3K Oct 6 16:51]
    [-rw-rw-r-- miguel
                         miguel
                                  5.3K Oct
                                           6 16:51]
                                            6 16:51]
    [-rw-rw-r-- miguel
                         miguel
                                  515K Oct
```

```
rtualBox:~$ 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, Fr</pre>
ancesc Rocher, Florian Sesser, Kyosuke Tokoro $">
<title>Directory Tree</title>
<style type="text/css">
 BODY { font-family : ariel, monospace, sans-serif; }
 P { font-weight: normal; font-family : ariel, monospace, sans-serif; color: black; background-color: tr
ansparent: }
 B { font-weight: normal; color: black; background-color: transparent;}
 A:visited { font-weight : normal; text-decoration : none; background-color : transparent; margin : 0px
Opx Opx Opx; padding : Opx Opx Opx Opx; display: inline; ]
            { font-weight : normal; text-decoration : none; margin : Opx Opx Opx Opx; padding : Opx Opx O
px 0px; display: inline; }
 A:hover { color : #000000; font-weight : normal; text-decoration : underline; background-color : yell
ow; margin : 0px 0px 0px 0px; padding : 0px 0px 0px 0px; display: inline; }
 A:active { color : #000000; font-weight: normal; background-color : transparent; margin : 0px 0px
Opx; padding : Opx Opx Opx; display: inline; }
   .VERSION { font-size: small; font-family : arial, sans-serif; }
         { color: black; background-color: transparent;}
          color: purple; background-color: transparent;}
 .FIF0
 .CHAR
           color: yellow; background-color: transparent;}
           color: blue; background-color: transparent;}
 .DIR
  .BLOCK {
           color: yellow; background-color: transparent;}
 .LINK
           color: aqua;
                          background-color: transparent;}
           color: fuchsia;background-color: transparent;}
  . SOCK
         { color: green; background-color: transparent;}
```

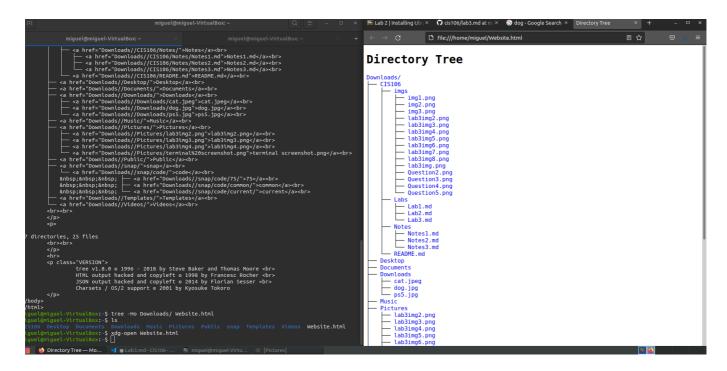
```
</style>
/head>
:body>
      <h1>Directory Tree</h1><a href="Downloads/">Downloads/</a><br>
          <a href="Downloads//CIS106/">CIS106</a><br>
              <a href="Downloads//CIS106/imgs/">imgs</a><br>
                 <a href="Downloads//CIS106/imgs/img1.png">img1.png</a><br>

    - <a href="Downloads//CIS106/imgs/img2.png">img2.png</a><br>

    - <a href="Downloads//CIS106/imgs/img3.png">img3.png</a><br>

    - <a href="Downloads//CIS106/imgs/lab3img2.png">lab3img2.png</a><br>

                - <a href="Downloads//CIS106/imgs/lab3img4.png">lab3img4.png</a><br>
               <a href="Downloads//CIS106/imgs/Question5.png">Question5.png</a><br>
              <a href="Downloads//CIS106/Labs/Lab3.md">Lab3.md</a><br>
              <a href="Downloads//CIS106/Notes/">Notes</a><br>
                 <a href="Downloads//CIS106/Notes/Notes1.md">Notes1.md</a><br>
                - <a href="Downloads//CIS106/Notes/Notes2.md">Notes2.md</a><br>
- <a href="Downloads//CIS106/Notes/Notes3.md">Notes3.md</a><br>
              <a href="Downloads//CIS106/README.md">README.md</a><br>
         - <a href="Downloads//Desktop/">Desktop</a><br>
        <a href="Downloads//Downloads/dog.jpg">dog.jpg</a><br>
            - <a href="Downloads//Downloads/ps5.jpg">ps5.jpg</a><br>
         − <a href="Downloads//Music/">Music</a><br>
          <a href="Downloads//Pictures/">Pictures</a><br>
             <a href="Downloads//Pictures/lab3img2.png">lab3img2.png</a><br><a href="Downloads//Pictures/lab3img3.png">lab3img3.png</a><br>
            - <a href="Downloads//Pictures/lab3img4.png">lab3img4.png</a><br/><br/>
             - <a href="Downloads//Pictures/terminal%20screenshot.png">terminal screenshot.png</a><b
         <a href="Downloads//snap/code/current/">current</a><br/>br>
             
          <a href="Downloads//Templates/">Templates</a><br>
          <a href="Downloads//Templates/">Templates</a><br><a href="Downloads//Videos/">Videos</a><br>
       <br><br><br>>
       >
17 directories, 25 files
       <br><br><br><
       <hr>
       tree v1.8.0 @ 1996 - 2018 by Steve Baker and Thomas Moore <br>
               HTML output hacked and copyleft @ 1998 by Francesc Rocher <br/>br>
               JSON output hacked and copyleft © 2014 by Florian Sesser <br/>br>
               Charsets / OS/2 support @ 2001 by Kyosuke Tokoro
       </body>
</html>
iguel@miguel-VirtualBox:~$
```



```
niguel@miguel-VirtualBox:~$ exa --help
Usage:
 exa [options] [files...]
  -?, --help
                     show list of command-line options
  -v, --version
                     show version of exa
DISPLAY OPTIONS
  -1, --oneline
                    display one entry per line
  -l, --long
                    display extended file metadata as a table
  -G, --grid
                    display entries as a grid (default)
  -x, --across
                     sort the grid across, rather than downwards
  -R, --recurse
                    recurse into directories
  -T, --tree
                    recurse into directories as a tree
  -F, --classify
                    display type indicator by file names
  --colo[u]r=WHEN
                    when to use terminal colours (always, auto, never)
  --colo[u]r-scale highlight levels of file sizes distinctly
FILTERING AND SORTING OPTIONS
  -a, --all
-d, --list-dirs
                             show hidden and 'dot' files
                             list directories like regular files
                             limit the depth of recursion
  -L, --level DEPTH
  -r, --reverse
                             reverse the sort order
  -s, --sort SORT FIELD
                            which field to sort by
  --group-directories-first list directories before other files
  -D, --only-dirs
                             list only directories
     --ignore-glob GLOBS
                             glob patterns (pipe-separated) of files to ignore
  --git-ignore
                             Ignore files mentioned in '.gitignore'
 Valid sort fields:
                             name, Name, extension, Extension, size, type,
                             modified, accessed, created, inode, and none.
                             date, time, old, and new all refer to modified.
LONG VIEW OPTIONS
  -b, --binary
                    list file sizes with binary prefixes
  -B, --bytes
                     list file sizes in bytes, without any prefixes
  -g, --group
                     list each file's group
  -h, --header
                     add a header row to each column
  -H, --links
                     list each file's number of hard links
                     list each file's inode number
  -i, --inode
                    use the modified timestamp field
  -m, --modified
  -S, --blocks
                    show number of file system blocks
  -t, --time FIELD which timestamp field to list (modified, accessed, created)
  -u, --accessed
                    use the accessed timestamp field
  -U, --created
                    use the created timestamp field
                    how to format timestamps (default, iso, long-iso, full-iso)
  --time-style
```