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Errata:

In addition to the specific page listings below, you should also look at the advisories posted on the README.md page at the GitHub site for the book to obtain further information about the software that is referred to in the book.

Page 30
Add the word “with” at the end of the last sentence on this page.

Page 96
In Step 9: , a@9 should be 9@a

Page 99
Modify the menu choice at the top of the page from Remove Other Windows to File > Remove Other Windows. There is also a menu choice on the Welcome Screen to Dismiss the Startup Screen.

Pages 118-119
In Practice Session 3.13, Step 2. Your emacs screen display should look like the upper buffer display in Figure 3.14. Also, in Step 7., you should run the program with the command **./power**

Page 136
Delete the heading 3.3.13.6 Redefining Keyboard Keys, and change the beginning of the first sentence below that heading to read “ The sub-sections below describe...”.

Page 147
In Problem 5., to execute the script file named sheller, type ./sheller on the command line.

Page 221
At the end of the first paragraph, in the last clause of the last sentence in that paragraph, from “but you do not have permission to read it” to “but you do not have permission to write to it.”

Page 436
Connection to 202.147.169.197 closed should be Connection to 192.168.0 13 closed.

Page 438
Connected to 302.147.169.197 should be Connected to 192.168.0.12

Page 523
In Section 13.6.4 A Few More Examples of Functions, the correct execution of the machines function assumes that the ruptime and cut commands are available, or have been installed on your system. Also, change $ ./machines to $ machines

Page 615
From >>>q = 1234567812345678L to >>>q = 1234567812345678

Page 626
The last sentence on the page should read -

Then, at the UNIX shell prompt, use Way 3 (Import Script mode) to run **`firstclass.py`**

Page 629
In mid-page, change the two references to arith.py to arith1.py

Pages 633-634
From “The following is an example of a script file” to “ The following is a modified version of a script file”
Delete the sentence “ Notice that , in our Python conversion, we also conditionally check to see if a hidden or dot(.) file has been entered as an argument:”

Substitute the following csh and Python code for that found in Example 16.25

csh shell code

```
#!/bin/csh
if ( ( $#argv == 0 ) || ( $#argv > 1 ) ) then
    echo "Usage: $0 ordinary_file"
    exit 1
endif
if ( -f $1 ) then
    set filename = $argv[1]
    set fileinfo = `ls -il $filename`
    set inode = $fileinfo[1]
    set size = $fileinfo[6]
    echo "File Name:        $filename"
    echo "Inode Number:     $inode"
    echo "Size (bytes):     $size"
    exit 0
else
    echo "$0: argument must be an ordinary file"
    exit 1
endif
```

Python code

```
#!/usr/bin/python
import os
import sys
if len(sys.argv) == 1 or len(sys.argv) > 2:  #check for no/too many args
    print "Usage: ", sys.argv[0], " ordinary file"
    sys.exit(1)
if os.path.isfile(sys.argv[1]):      #bingo, get stats
    filename = sys.argv[1]
    fileinfo = os.stat(filename)
    print "Filename   inode    size"
    print " "
    print filename, fileinfo.st_ino, fileinfo.st_size
    sys.exit(0)
else:                                # argument must something else!
    print sys.argv[1], " argument must be an ordinary file"
    sys.exit(1)
```

We ran the Python code equivalent using a variation of the alternative method of Way 2 (Script mode). We named the Python equivalent **ex25.py**. We obtained the following output, where there was a file

named ex27.py in the current working directory, but no file named lab1 (remember to make the csh script file and its Python equivalent executable using the **chmod u+x** command!!!):

$ **./ex25.py**
Usage: ./ex29.py ordinary file
$ **./ex25.py lab1**
lab1 argument must be an ordinary file
$ **./ex25.py ex27.py**
Filename inode size

ex27.py 3541279 317
$

Page 644
In Example 16.32, omit all of the >>> characters before the four lines of Python code, since you are asked to use Way 2 (Script mode) to execute the Tkinter example.
Also, there should be double-quotes (“) around the text First Python GUI, not single-quotes(‘). It should appear as “First Python GUI”

Page 654
From “functional programming” to “procedural/imperative programming”

Page 660
The command line session for Example 16.52 should look as follows-

```
$ python Example16_52.py <Enter>
Started thread 1
k <Enter>
Started thread 2
o <Enter>
Started thread 3
r <Enter>
Started thread 4
x <Enter>
$
```

And the description of what is going on should be reworded as follows-
What exactly is going on in Example 16.52? A single thread is being started, and then it immediately dies, and the program loops indeterminately, allowing you to create successive new threads by pressing a key on the keyboard and then pressing **<Enter>**. Only two thread calls are made in this example: the import of the _thread module and the call to the method **start_new_thread** that creates a new thread. This call takes a function (or other “callable”) object as a tuple argument, and starts a new thread to execute a call to the passed function with the passed arguments.

Page 674
At the end of Exercise 16.22, omit the parenthesized Figure 16.22 reference.

Pages 720, step 2., 726, step 1.
The following lines that initialize your username and email address globally -

% git config --global user.name bob
% git config --global user. Email "your_email_address"

should read-

% git config --global user.name bob
% git config --global bob.email "bob's_email_address"

The above two corrected lines assume that you want to have a user name of bob shown in the first line, and you will use the actual email address of bob in the second line.

If you give the git config –global --edit command to check this, you will see the following as output-

```
% git config –global –edit
[user]
        name = bob
[bob]
        email = bob's_email_address
```

Page 893
In the first paragraph, at the top of the page, the IP address that reads 12.0.0.1 should be 127.0.0.1

Page 1016
Practice Session 22.3 should really be numbered Practice Session 22.2, and all references to it should also be changed accordingly.

Page 1048
Main Page Table of Contents for FVWM should read Man Page Table of Contents for FVWM.

Page 1116
In Example 23.6 code, the third and fifth lines should be prefaced with a #.
On the sixth line, remove the double-quotes before and after /home/bob.
On the seventh line, remove the double-quotes before and after /home/bob/simple_backup.
On the eighth line, remove the double-quotes before and after back1.tgz.

Page 1117
Corrected minor commenting line errors in the source code file for Example 23.7 found in this chapters GiHub code. The printed book text for Example 23.7 is correct.

Page 1217
In Item 8., How to take snapshots of file systems:, Further examples: the line that reads-
zfs snapshot data01@10022010 data01@mybackup
should read-
zfs snapshot rename data01@10022010 data01@mybackup

Page 1222
In the printed book listing of Example 24.7, delete the pound signs (#) at the start of the following lines: 6,8, and 12. Also, there are several locations where single quotes are used in a line of code, and those should be back quotes (`). The code at the book's Github site is correct.

Page 1240
In Problem 10 a., the line reading “new zpool” should be changed to “new zfs dataset”.
In Problem 10 b., delete the following words beginning the line reading “Put a new dataset in that new pool”. Then capitalize F in the word fill, to start the sentence.

Page 1293
Section 25.4.5.1, the link shown to the PC-BSD .ova and .vdi files is no longer valied, because the page http://www.pcbsd.org/en/download.html no longer exists. Please refer to Advisory 10 on the README.md page for links to these .ova and .vdi files at our GitLab repository.