# Errata for Impractical Python Projects (updated to 6th printing)

Page 33: In the list of palingrams, "dairy raid" should now read "welsh slew"

# Page 68: The first two lines of the second code snippet that read:

```
for i in range(len(list_of_lists)):
print(list_of_lists[i])
should now read:
for nested_list in list_of_lists:
print(nested_list)
```

Page 79: In the sentence before the last code block, we changed "Figure 4-2" to "Figure 4-3"

# Page 85: In Listing 4-9, the code at number ball (5) and the following line that read:

```
row1 = (message[:row_1_len])
row2 = (message[row_1_len:])
```

# should now read:

```
row1 = (message[:row_1_len]).lower()
row2 = (message[row_1_len:]).lower()
```

and the code immediately below number ball (8) that reads:

```
plaintext.append(r1.lower())
    plaintext.append(r2.lower())
should now read:
    plaintext.append(r1)
```

plaintext.append(r2)

**Page 100:** The output printout near the bottom of page that reads:

```
Panel at east end of chapel slides should now read:

Panelateastendofchapelslides
```

# **Page 103:** The cipher example that reads:

The cold tea didn't please the old finicky woman.

should now read:

So, the cold tea didn't please the old finicky woman.

**Page 111:** In the 4<sup>th</sup> and 5<sup>th</sup> paragraphs, we changed all instances of "property" and "properties" to "attribute" and "attributes"

Page 116: In the second line of the first paragraph, we changed "property" to "attribute"

Page 141: In Listing 7-10, the line labeled with number ball (7) and the preceding line that read:

```
lock_wheel = int(randrange(0, len(combo)))
next_try[lock_wheel] = randint(0, len(combo)-1)
should now read:
lock_wheel = randrange(0, len(combo))
next try[lock wheel] = randint(0, 9)
```

# **Page 156:** In the note, the part that reads:

... and adding the key/value pair (at any location, since dictionaries are unordered). should now read:

... and adding the key/value pair at any location.

# **Page 164:** In the second paragraph, the line that reads:

Because of the very short training corpus, the moon is the only word pair with multiple keys. should now read:

Because of the very short training corpus, the moon is the only word pair with multiple values.

# Page 171: In the last sentence before the section "The Code":

This is a far better solution than manually finding and commenting out print () statements! should now read:

This is a far better solution than manually finding and commenting out calls to print ()!

Page 182: In the last paragraph, the poem that reads:

### Cool stars enter the

# Window this hot evening all

### Heaven and earth ache

should now read:

# A line flap-flapping Across the dark crimson sky On this winter pond

Page 205: The line and following equation that read:

The transformation to generate points over a unit disc is as follows:

```
x = \sqrt{r * \cos}
```

should now read:

The transformation to generate points evenly over a unit disc is as follows:

```
x = \sqrt{r * \cos \theta}
```

and the line that reads:

The equations yield (x, y) values between 0 and 1.

should now read:

The equations yield (x, y) values between -1 and 1.

**Page 218:** The indentation for the listing on the page should be as follows:

**Page 250:** The indentation of the three lines labeled number ball (8), number ball (9), and number ball (10) should now be indented by one more level.

### **Page 252:** The last line on page that reads:

Set the default to 'sbc\_blend', since this is theoretically the most stable mix of the four choices. should now read:

Set the default to 'bonds', in order to see how this supposedly 'safe' choice performs.

Page 259: The first line in last paragraph that reads:

... a 4 percent withdrawal rate (equal to \$80,000 per year), a 30-year retirement, and 50,000 cases.

should now read:

... a 4 percent withdrawal rate (equal to \$80,000 per year), a 29-30-31 retirement range, and 50,000 cases.

# **Page 261:** The indentation of the last two lines in Listing 12-9:

```
investments -= withdraw_infl_adj
    investments = int(investments * (1 + i))
should now be:
    investments -= withdraw_infl_adj
    investments = int(investments * (1 + i))
```

Page 305: In the last paragraph, transform rotate() should now read transform.rotate()

# Page 329: The first sentence under "The Shell Utilities Model" that reads:

The shell utilities module, shutil, provides high-level functions for working with files and folders, such as copying, moving, renaming, and deleting.

should now read:

The shell utilities module, shutil, provides high-level functions for working with files and folders, such as copying, moving, and deleting.

**Page 356:** Between the lines labeled with number balls (5) and (6) in Listing 16-2, we inserted the following new lines of code:

```
# check for missing digits
keys = [str(digit) for digit in range(1, 10)]
for key in keys:
    if key not in first_digits:
        first digits[key] = 0
```

**Page 357:** In the first line of the second paragraph, we deleted the line: "Like all Python dictionaries, first digits is unordered."

Page 360: In the 5<sup>th</sup> line of the 6<sup>th</sup> paragraph, "property" should now read "attribute"

```
Page 368: The code for "Dictionary Cleanup" that reads:
```

```
"""Remove single-letter words from list if not 'a' or 'i'."""
word list = ['a', 'nurses', 'i', 'stack', 'b', 'cats', 'c']
permissible = ('a', 'i')
# remove single-letter words if not "a" or "i"
for word in word list:
      if len(word) == 1 and word not in permissible:
            word list.remove(word)
print("{}".format(word list))
should now read:
"""Remove single-letter words from list if not 'a' or 'i'."""
word list = ['a', 'nurses', 'i', 'stack', 'b', 'c', 'cat']
word list clean = []
permissible = ('a', 'i')
for word in word list:
    if len(word) > 1:
        word list clean.append(word)
    elif len(word) == 1 and word in permissible:
        word list clean.append(word)
    else:
        continue
```

```
Page 369: Line 17 of the code in "Finding Digrams" which reads:
print(*digrams, sep='\n')
should now read:
print(*sorted(digrams), sep='\n')
and line 28 which reads:
for k in mapped:
```

should now read:

for k in sorted(mapped):