

ERRATA

Perl for Exploring DNA (Oxford University Press, 2007)

by

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Modification History:

Fall 2007: Thanks to our Wheaton students in our team-taught class for their sleuth work.

Spring 2008: Thanks to Laurie Heyer and her Davidson bioinformatics students.

Bugs in code (2)

Chapter 10 – Hash Tables

p199 missing +1 on third line of code from the bottom of the page

```
while ( $stopTen <= 10 and $stopTen <= $lastIndex + 1 )
```

Chapter 13 – Understanding Randomness

p240 missing ‘equal to’ on relational operator

```
if ( $N <= $percentageOfA )
```

Note: The code available for download from the website has already been fixed.

Wrong Output Shown (1)

Chapter 12 – Regular Expressions Revisited

p221 in the middle of the page, the incorrect output screen is shown; it should be:

```
Found (greedy) MR: CGTCATGCCTTCTCGTATCGGTGC at bp 2
```

Small Typos

Chapter 3 – Your First Perl Program ...

p39 the substr command (on both lines) is not given the string, \$putativeGene

```
$codon2 = substr($putativeGene, $whereStart+3, 3);  
$codon3 = substr($putativeGene, $whereStart+6, 3);
```

Chapter 4 – String Play with Regular Expressions

p62 remove ‘directly’ from question (a)

“Are there any words in which a sequence of two letters is ~~directly~~ repeated ...”

Chapter 6 – Making Decisions Over and Over Again with Perl’s `if` and `while`

- p95 initial line, remove period after ‘versus’
 “... *comparing numbers versus when* ...”

 third line, remove redundant ‘than’
 “... *and ‘Arginine’ is gt ~~than~~ ‘Alanine.’*”

 fourth line from bottom, remove redundant ‘to’
 “... *is note the same as (eq) ~~to~~ the* ...”
- p98 middle of the page, the three-character stop codon ... should have no spaces
 between the dots
 `$AA = "MetTyrAlaAsnAspIleValAsnSer...";`
- p100 figure in bottom of page should abbreviate ‘Direct Repeat’ as (DR)
- p103 Going Back for More, question #3; the question asks to find “all” DRs upstream
 of the TATA box, but at this point in the text, we can only find the initial one;
 (to do this, see: `while` loops and the `/g` regex modifier in the next sections)
- p110 fifth line, the word ‘return’ is missing a ‘u’
- p112 sixth line of second paragraph, redundant ‘find’
 “... *so you can ~~find~~ continue trying to find another*”

Chapter 7 – Subroutines

- p119 middle of the page, ‘acids’ misspelled
- p120 pattern binding operator `=~` should *not* contain a blank space
- p125 ditto

Chapter 11 – Phrasing Questions by Writing Algorithms

- p207 the vertical portion of the hairpin shape should be shifted left one base

Chapter 13 – Understanding Randomness

- p240 middle of page, less than or equal to operator should *not* contain a space (`<=`)