

# Errata corrige for

Bertrand Meyer: *Touch of Class: Learning to Program Well with Object and Contracts*  
Springer-Verlag, 2009

From <http://touch.ethz.ch/>, link Wiki->Errata

## Prefaces and front matter

- Page XXXV, Line 13 Bibliography "by Wirth [14]" -> "by Wirth [15]"

## 1 The industry of pure ideas

## 2 Dealing with objects

## 3 Program structure basics

## 4 The interface of a class

- Page 59, right before section 4.5 "... or the simpler one l.north\_end." should probably be "... or the simpler one Line8.north\_end."

## 5 Just Enough Logic

- Page 93, last line: **False** -> **True**.

## 6 Creating objects and executing systems

- Page 119, class SIMPLE\_STOP: add declaration of attribute *line*: *LINE*.
- Page 129, 8 lines from bottom, "response times a the millisecond of faster." should be "response times at the millisecond or faster."

## 7 Control structures

## 8 Routines, functional abstraction and information hiding

## 9 Variables, assignment and references

- Page 235, third bullet point, line 2: *swap1* -> *var1*.
- Page 237, 4 lines from bottom, "... and security attacks in important programs." is correct but you probably mean "... and security holes in important programs."
- Page 241, first line from top, "... the target of an assignment may must be a variable, ..." should be "... the target of an assignment must be a variable, ...".
- Page 251, 3 lines from top, "... constant attributes of any type a may not serve ..." should be "... constant attributes of any type may not serve ...".
- Page 252, routine set\_station, header comment: "with s" -> "with ms".
- Page 256, last sentence before figure: swap "first" and "second"

## 10 Just enough hardware

- Page 278, line for  $n=50$  in table: Peta (P)
- Page 279, line 7: near-thousand ( $2^{10}$ )
- Page 279, last line of first paragraph under "Computing with numbers":  $2^{-63} \rightarrow -2^{63}$
- Page 292, bullet point starting "The memory hierarchy", line -3: "again about 100 times"  $\rightarrow$  "again several orders of magnitude".

## 11 Describing syntax

## 12 Programming languages and tools

## PART III: Algorithms and data structures

## 13 Fundamental data structures, genericity, and algorithm complexity

- Page 385, first line of first box: missing argument. First line should be *item alias* "`[]`" ( *i: INTEGER*): **assign** *put*
- Pages 389 - 390: Labelled tuple parameters are separated by "," (comma) but should be separated by ";". Exact places: p. 389 in first code example, p. 390 3rd-to-last paragraph, 3rd line. (Maybe the text should describe the difference of separation character.
- Page 426, last line before box: "push"  $\rightarrow$  "put"
- Page 429, line 4: *LINKED\_LIST*  $\rightarrow$  *LINKED\_QUEUE*
- Page 429, second line after first figure: swap the two assignments implementing *put* ( *v*).

## 14 Recursion and trees

- Page 466, function minimax: add declaration of local variable *c*: *LIST [CHOICE]*
- Page 480, entry for  $G_3$  (towards bottom of page), comment: "The pair for  $n = 1$ "
- Page 486, box: *integer\_expression*  $\rightarrow$  *boolean\_expression*
- Page 503:  $H_5 \rightarrow T_5$

## 15 Devising and engineering an algorithm: Topological Sort

- Page 509, second line after last box: *a* and *b*  $\rightarrow$  *x* and *y*
- Page 529, first figure, array *predecessor\_count*: the entry for 3 should be 0 (not 3).
- Page 541, line 1: *record\_constraint* (without a final "s").

## 16 Inheritance

- Page 574, program in box, taxi branch, second instruction: "tram"  $\rightarrow$  "taxi"
- Page 580, line 8:  $C_2 \rightarrow C_1$

## 17 Operations as objects: agents and lambda calculus

- Page 621, line -2:  $[x, y] \rightarrow [a, b]$
- Page 622, the first box should read "your\_integrator.integral (agent f, a, b)"
- Page 624, 3 lines before last box:  $[x, y] \rightarrow [a, b]$
- Page 633, replace line in first box by  
increment (*x*: *G*) **do** active.put (*x* + 1) **end**

- Page 635, last box:  $[x, y] \rightarrow [a, b]$
- Page 657, two lines before box:  $x \Rightarrow f$  (i.e. "Then if  $f$  is the corresponding...")

## 18 Event-driven design

- Page 671, line 12, "... that subscribers do not know the subscribers." should be "... that publishers do not know the subscribers."
- Page 680, header comment for *unsubscribe* should be  
-- Set  $s$  to be no longer a subscriber of this publisher.
- Page 685, last bullet point, line -1: in *SUBSCRIBER*.

## 19 Introduction to software engineering

- Page 717, legend of figure, line 4: "I"  $\rightarrow$  "V&V"

## A An introduction to Java

## B An introduction to C#

- Page 785, last box, line 1: "power"  $\rightarrow$  "exclusive or"

## C An introduction to C++

- Page 818, last line of second box, comment: "integer"  $\rightarrow$  "string"
- Page 828, second box, first line of body of  $f$ , should use  $W$  rather than  $D$  (twice):  
 $D^* p = \text{new } W();$

## D From C++ to C

## E Using the [EiffelStudio](#) environment

## Picture credits

## Index

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