

Errata list for The L^AT_EX Companion, Third Edition, Parts I & II

(1. printing)

Includes all entries found between 2023/04/01 and 2023/08/17
(For other periods/print runs reprocess this document with different config settings)

```
@book(A-W:MF:2023,  
  author = {Frank Mittelbach and Ulrike Fischer},  
  title = {The {\LaTeX} Companion},  
  edition = 3,  
  note = {With contributions by Javier Bezos, Johannes Braams, and Joseph Wright},  
  series = {Tools and Techniques for Computer Typesetting},  
  publisher = {Addison-Wesley},  
  address = {Boston, Massachusetts},  
  year = 2023,  
  pagenums = {976 (Part I) and 1008 (Part II)},  
  bibliography = {yes},  
  index = {yes},  
  isbn = {978-0-13-816648-9},  
)
```

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This file (`tlc3.err`) can be found as part of the L^AT_EX distribution and its latest version is maintained on the L^AT_EX project site at <https://www.latex-project.org/help/books/tlc3.err> where you will also find extracts of the book.

The first column in the table shows the page number of the errata entry. Superscript numbers in the first column refer to the printed revision in which this entry was corrected (*s* indicates a correction in the sources only). The second column gives the precise location (negative line or paragraph numbers are counted from the bottom of the page). The third column shows the first finder of the problem.

You can customize this list to only show errata related to the printing or digital edition you own by changing the configuration in the file `tlc3.cfg`.

To Err is Human — Bug Contest

Any mistake found and reported is a gain for all readers of our book. For this reason Addison-Wesley and the authors offer a prize (for 5 limited time periods) to the eligible person who finds the largest number of bugs during that period (more precisely, it is a lottery among the people with the

5 top-most findings up to that point). A person can receive at most one prize, ever; errors found by any of the authors do not count.

Each prize is a free choice of any single computing book found on the Addison-Wesley/Pearson web site: <https://www.informit.com> (that is, no boxed sets or multiple volume offers).

As usual, the authors and publisher reserve the right to make various decisions such as whether a reported feature is an error for competitive purposes or whether similar features count as a single or multiple errors. — Good luck!

Contest period ends	Winner
2023/??	??? suggestions

Due to its size the third edition of *The L^AT_EX Companion* is printed as a two-volume set. The digital version, however, is provided as a single PDF or ePub. This means that a small fraction of the digital content differs from that of the printed version: there is only a single front matter, a single bibliography, and a single index, whereas in the printed books these are separated out. However, all versions share the main matter (down to the page numbering) so most of the errata apply to all versions, but a few only to the digital and some only to the printed version. Thus, we end up with three separate lists.

Errata for the print version (not applicable to the digital version)

The printed books differ from the digital version in that the bibliography is split across both volumes (with a few repeats) and the front matter of each volume has its own table of contents and list of figures and tables. Therefore these parts have different page numbers and you will see similar errata entries for both print and digital differing only in that respect.

General

(FMi)	Text or graphics typeset in the the spot color (blue) are not always perfectly aligned. This is a side-effect of the printing technology. On most pages everything is fine, but occasionally blue text in a paragraph seems to be slightly above or below the baseline or blue text in tables appears slightly misaligned horizontally. It differs from book to book (and therefore not recorded in this errata) and can't be controlled by the authors, unfortunately.
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Front matter (Part I)

<i>I-ix</i> ... <i>I-xvi</i> ^s	(FMi)	Dot leaders have been changed on all sections.
<i>I-xvii</i> ^s chapter head	(FMi)	formulas → <u>F</u> ormulas
<i>I-xvii</i> ^s chapter head	(FMi)	documents → <u>D</u> ocuments
<i>I-xvii</i> ^s chapter head	(FMi)	beyond → <u>B</u> eyond
<i>I-xx</i> ... <i>I-xxi</i> ^s	(FMi)	Dot leaders have been changed on all sections.

Bibliography (Part I)

<i>I-783</i> ^s	[55], 1.-2	(FMi)	all → <u>them</u> all
<i>I-785</i> ^s	[73], 1.-2	(kb/bb)	the go-forward way for L ^A T _E X-coding → the way for L ^A T _E X coding going forward
<i>I-786</i> ^s	[87], 1.2	(kb/bb)	p. → pp.
<i>I-786</i> ^s	[88], 1.2	(kb/bb)	p. → pp.
<i>I-787</i> ^s	[92], 1.2	(kb/bb)	Add: Vancouver, 1999
<i>I-788</i> ^s	[100], 1.3	(kb/bb)	Publishing → Publishing ₂
<i>I-790</i> ^s	[122], 1.1	(kb/bb)	In <u>ACM editor</u> “Proceedings → In “ <u>PODC’01</u> : Proceedings
<i>I-790</i> ^s	[122], 1.1	(kb/bb)	In <u>Unicode Consortium, editor</u> → In

Front matter (Part II)

<i>II-x. . . II-xxviii</i> ^s		(FMi)	Dot leaders have been changed on all sections.
<i>II-xiv</i> ^s	heading	(bb/FMi)	Multiple alignments: <u>align</u> and <u>flalign</u> → Multiple alignments: <u>align</u> , <u>flalign</u> , and <u>alignat</u>
<i>II-xv</i> ^s	chapter head	(FMi)	formulas → <u>F</u> ormulas
<i>II-xvi</i> ^s	chapter head	(FMi)	documents → <u>D</u> ocuments
<i>II-xxi</i> ^s	chapter head	(FMi)	beyond → <u>B</u> eyond

Bibliography (Part II)

<i>II-799</i> ^s	[43], 1.-2	(FMi)	all → <u>them</u> all
<i>II-801</i> ^s	[62], 1.-2	(kb/bb)	the go-forward way for L ^A T _E X-coding → the way for L ^A T _E X coding going forward
<i>II-802</i> ^s	[71], 1.2	(kb/bb)	p. → pp.
<i>II-802</i> ^s	[72], 1.2	(kb/bb)	p. → pp.
<i>II-803</i> ^s	[80], 1.3	(kb/bb)	Publishing → Publishing ₂

Errata for the digital version (not applicable to the print version)

All known errors to the digital version have already been incorporated in the product as distributed.

Errata common to the print and digital versions

The main matter is identical (also in page numbers) in the print and the digital versions. Therefore most errata entries appear in this section.

General

- (FMi) Some corrections result in index changes. These are not tracked here; the index is always fully regenerated for new printings.
- (MJo/FMi) There are a dozen occurrences of the word rôle throughout the book, which is more commonly spelled role. However, this is not wrong but is the somewhat dated form used mostly in British English. Personally, I prefer the version with accent (as does Don Knuth) so it is deliberate and will not change.

Chapter 1 — Introduction

- I-5^s* para 4, 1.4 (kb) of the bugs → with the bugs
- I-5^s* para 5, 1.5 (kb) not least → but not least

Chapter 2 — The Structure of a L^AT_EX Document

- I-34^s* 1.-1 (FMi) Moved first line of page 35 to 34.
- I-35^s* 1.1 (FMi) Moved first line of page 35 to 34.
- I-113^s* listing (FMi) Situation is the same in the 2023 distributions; listing output updated.
- I-117^s* 1.-5 (BeB) *latexrelease* → **latexrelease**

Chapter 3 — Basic Formatting Tools – Paragraph ...

- I-160^s* para -2, 1.1 (BeB) Repeated word: keys keys → keys
- I-163^s* para 2, 1.2 (FMi) as we did above. → as we did in Example 3-3-14 below.
- I-163^s* para 3, (FMi) Add a marginal note: No warning if another L^AT_EX run is necessary!
margin
- I-163^s* example (BeB) Output of example misses the page numbers in acronym list → Run
3-3-14 example 3 times (not only twice—there is no warning)

Chapter 4 — Basic Formatting Tools – Larger ...

- I-323^s* Table 4.4, left (BeB) Typo: Assembler (Notorola68k, x86masm) →
column Assembler (Motorola68k, x86masm)

Chapter 5 — The Layout of the Page**Chapter 6 — Tabular Material**

- I-489*^s para 1, l.3 (EOI) Change: to additionally load `longtable` or `supertabular` prior to `→` to load `longtable` or `supertabular` in addition to
- I-490*^s footnote (EOI) Replace footnote text with `→` If you forget this, you either get an empty cell or, if parts of the text can be interpreted as a value, a somewhat “random” number and the rest is dropped. For example, `31 December 2022` would result in “31.00”, which is probably not desired.

Chapter 7 — Mastering Floats**Chapter 8 — Graphics Generation and Manipulation**

- I-619*^s para -2, l.2 (FMi) in light blue `→` in red
- I-619*^s exa 8-4-7 (FMi) The example uses `left_color=red!20` but this is not really visible if the red is turned into some gray value in the book (which is then made even lighter through `!20`). So it is better to start from full red, i.e., `→ left_color=red` instead.
- I-644*^s syntaxbox for `\foreach` (BeB) superfluous “in”: `... {commands} in → ... {commands}`

Chapter 9 — Font Selection and Encodings

- I-688*^s para -2, l. 1 (BeB) acronym PSNFSS not explained: PSNFSS `→` PostScript New Font Selection Scheme (PSNFSS)
- I-669*^s exa 9-3-11 (FMi) Changed line breaks in example.
- I-681*^s para 2, l.1 (BeB) Missing space: Theproblem `→` The problem
- I-708*^s listing (FMi) Situation is the same in the 2023 distributions; listing output updated.

Chapter 10 — Text and Symbol Fonts

- II-5*^s table 10.1, l. 5 (BeB/FMi) official companion family name `→` related official font family name
- II-5*^s para -1, l.2 (FMi) then this structure is repeated as often as necessary. `→` then this structure is repeated for the related font families as often as necessary.
- II-24*^s para 3, l. -2 (BeB) There is no slanted shape in Grande Mono: naïve `→` naïve

II-25 ^s	para -4, margin	(BeB)	Open Type font is available: <u>— no Open Type —</u> → <u>Lucida Handwriting OT</u>
II-25 ^s	para -2, l.-2	(BeB)	There are no italic blackletters: <i>phœnix's official rôle</i> → <i>phœnix's official rôle</i>
II-28 ^s	table 10.14, l. 3	(BeB)	Inconsistent order: sl, l → l, sl
II-28 ^s	table 10.14, lines 7 + 19	(BeB)	semi-bold twice, extra-bold missing: sbsc, bsc, <u>sbsc</u> → sbsc, bsc, <u>ebsc</u>
II-28 ^s	table 10.14, lines 13 + 25	(BeB)	semi-bold twice, extra-bold missing: sbec, bec, <u>sbec</u> → sbec, bec, <u>ebec</u>
II-29 ^s	table 10.15, lines 7	(BeB)	semi-bold twice, extra-bold missing: sbsc, bsc, <u>sbsc</u> → sbsc, bsc, <u>ebsc</u>
II-29 ^s	table 10.15, l. 10	(BeB)	semi-bold twice, extra-bold missing: sbc, bc, <u>sbc</u> → sbc, bc, <u>ebc</u>
II-29 ^s	table 10.15, l.13	(BeB)	semi-bold twice, extra-bold missing: sbec, bec, <u>sbec</u> → sbec, bec, <u>ebec</u>
II-34 ^s	table 10.20	(FMi)	Add table note: k (<i>black</i>) is a nonstandard series name for eb (<i>extra bold</i>) or in some families for ub (<i>ultra bold</i>).
II-40 ^s	table 10.24	(FMi)	In table note: <i>Unfortunately</i> , <u>sco</u> → <i>Unfortunately</i> , <u>sco</u>
II-50 ^s	font sample Cambria	(FMi)	Because of problems with the font names, the Cambria family currently requires a Cambria.fontspec file (possibly only temporary) when used with LuaT _E X with the following content: <pre>\defaultfontfeatures[Cambria]{% UprightFont = cambria.ttc, BoldFont = cambriab.ttf, ItalicFont = cambriai.ttf, BoldItalicFont = cambriaz.ttf}</pre> <p>Without it, the bold fonts are not correctly set up, which is why almost anything is not in bold and Fields is not typeset in bold small caps in the sample even though Cambria supports these typefaces.</p>
II-61 ^s	table 10.48	(FMi)	Add table note: <i>Unfortunately</i> , <u>sco</u> is a nonstandard shape name for sctl ; thus, low-level shape commands are needed to access it.
II-62 ^s	table 10.50	(FMi)	Add table note: <i>Unfortunately</i> , <u>sco</u> is a nonstandard shape name for sctl ; thus, low-level shape commands are needed to access it.
II-63 ^s	table 10.51	(FMi)	Table moved to page II-62 for better pagination.
II-66 ^s	Unicode box	(DFI)	OpenType fonts for the Concrete family do exist. Therefore changed the text to <p>OpenType fonts of the family for use in Unicode engines do exist. They offer additional characters and also true bold and bold italic shapes.</p> <p>and moved it down after the discussion of missing bold fonts.</p>

<i>II-66</i> ^s	table 10.55	(FMi)	Change: <u>—no OpenType—</u> → <u>CMU Concrete</u> Added line showing: <u>b n, it</u> and the text <u>—Not available with pdfT_EX, only in Unicode engines—</u>
<i>II-66</i> ^s	1st font example	(FMi)	Change: <u>—no OpenType—</u> → <u>CMU Concrete</u>
<i>II-66</i> ^s	2nd font example	(FMi)	Added (in margin info): <u>—only OT1—</u>
<i>II-71</i> ^s	para 1, l.1	(BeB)	ub should be upright: <u>\fontseries{ub}</u> → <u>\fontseries{ub}</u>
<i>II-71</i> ^s	para 2, l.5	(YFu)	Akira Kobayashi should be written in Japanese style → <u>KOBAYASHI Akira</u> Also corrected in the index.
<i>II-75</i> ^s	table 10.64	(FMi)	Add table note: <i>Unfortunately, sco is a nonstandard shape name for scsl; thus, low-level shape commands are needed to access it.</i>
<i>II-76, 77</i> ^s	both font examples	(BeB)	Helvetica and its clones do not have true italics but instead an oblique/slanted face (despite the fact that the internal font information claims it is “italic”). For this reason the blue text in both Helvetica examples should be as follows: <i>naïve</i> vis-à-vis the dæmonic <i>phænix’s official rôle</i> → <i>naïve</i> vis-à-vis the dæmonic <i>phænix’s official rôle</i>
<i>II-86</i> ^s	table 10.74, l.4	(FMi)	It’s weights not widths: <u>Some nonstandard widths</u> → <u>Also some nonstandard weights</u>
<i>II-86</i> ^s	table 10.74	(FMi)	Add table note: <i>Unfortunately, the font family uses the nonstandard series names t (thin) and k (black) instead of the standard series names ul (ultra light) and ub (ultra bold). The mb (medium) is halfway between the standard m and sb and does not fit into the NFSS naming conventions. It can serve as a replacement for m, e.g., via \DeclareFontSeriesDefault.</i>
<i>II-91</i> ^s	l. -1	(BeB)	In the DejaVu Sans Mono Example add: <u>0I1</u> or <u>011?</u>
<i>II-102</i> ^s	para -4, margin	(BeB)	Change: <u>— no Open Type —</u> → <u>Lucida Handwriting OT</u>
<i>II-104</i> ^s	para -1, l.2	(FMi)	Footnote added after: <u>Unicode characters</u> However, strangely enough this only works in pdfT _E X and <i>not</i> in Unicode engines!

<i>II-105</i> ^s	para 1 replaced	(FMi/BeB)	The yfonts have a suprising feature: you can use the Unicode characters $\text{\AA}\text{\O}\text{\U}\text{\a}\text{\o}\text{\u}\text{\B}$ in pdfT _E X, but this is not possible in Unicode engines! The first paragraph was therefore replaced to clarify this. The new text is: The next example shows the various ligatures. With pdfT _E X one can use the Unicode characters $\text{\AA}\text{\O}\text{\U}\text{\a}\text{\o}\text{\u}\text{\B}$ directly and only needs the “short s” ligature. However, due to the special font encoding this <i>does not work</i> in Unicode engines—with these engines you have to enter the accents as ligatures or L ^A T _E X commands.
<i>II-106</i> ^s	para -3, l. 1	(BeB)	Acronym GFS not explained: Greek Font Society → Greek Font Society (GFS)
<i>II-107</i> ^s	exa 10-11-1	(FMi)	The Cambria fonts currently require a Cambria.fontspec file (possibly temporary) when used with LuaT _E X — see errata on page II-50. Without it, the bold fonts are not correctly set up, which is why they are not showing in the example.
<i>II-110</i> ^s	exa 10-12-1	(FMi)	The Cambria fonts currently require a Cambria.fontspec file (possibly temporary) when used with LuaT _E X — see errata on page II-50. Without it, the bold fonts are not correctly set up, which is why they are not showing in the example.
<i>II-114</i> ^s	table 10.89	(FMi)	Added missing U+00F _x line. There was a bug in code generating it.
<i>II-117</i> ^s	table 10.92	(FMi)	Added missing U+00F _x line. There was a bug in code generating it.
<i>II-121</i> ^s	table 10.96	(FMi)	Added missing U+00F _x line. There was a bug in code generating it.
<i>II-122</i> ^s	table 10.98	(FMi)	Added missing U+00F _x line. There was a bug in code generating it.
<i>II-122</i> ^s	table 10.99	(FMi)	Added missing U+00F _x line. There was a bug in code generating it.
<i>II-123</i> ^s	table 10.100	(FMi)	Added missing U+00F _x line. There was a bug in code generating it.
<i>II-124</i> ^s	table 10.103	(FMi)	Added missing U+00F _x line. There was a bug in code generating it.

Chapter 11 — Higher Mathematics

<i>II-127</i> ^s	para 1, l.5	(bb/FMi)	<u>The</u> American Mathematical Society (AMS) <u>provides</u> a major package, amsmath , which <u>makes</u> ... → <u>In the early nineties the</u> American Mathematical Society (AMS) <u>provided</u> a major package, amsmath , which <u>made</u> ...
<i>II-129</i> ^s	para -3, l.1	(bb/FMi)	The principal documentation for these packages → The principal documentation for these <u>two</u> packages
<i>II-129</i> ^s	para -1, l.3	(bb)	<u>lot</u> additions → <u>many</u> additions
<i>II-132</i> ^s	table 11.1	(bb/FMi)	Also mention alignat , alignat* , and alignedat .

<i>II-133</i> ^s	para 4,1.2	(bb/FMi)	Add: Furthermore, they move the equation tag out of the way if it would otherwise overprint the formula.
<i>II-133</i> ^s	para. -3, l. -1	(BeB)	Wrong reference: Section 11.2.10 → 11.2.11
<i>II-138</i> ^s	heading	(bb/FMi)	Multiple alignments: <u>align</u> and <u>flalign</u> → Multiple alignments: <u>align</u> , <u>flalign</u> , and <u>alignat</u>
<i>II-138</i> ^s		(FMi)	Moved para from 139 to end of this page.
<i>II-139</i> ^s	para 1	(FMi)	Moved para back to page 138.
<i>II-139</i> ^s	bottom	(FMi)	Add: Sometimes it is more convenient to explicitly specify all the horizontal spacing yourself within the formula. For this you can use an alignat environment. It differs from align in two ways: you have to specify the number of rl pairs as an argument to the environment and it does not add any spaces between the pairs, e.g., <code>\begin{alignat}{3} x &=& y & \&\quad X &=& Y & \&\quad a &=& b+c \quad \backslash \quad \dots</code> As usual, equation numbers can be altered with <code>\tag</code> or suppressed with <code>\notag</code> .
<i>II-140</i> ^s	para 1, l.2	(bb/FMi)	Add: Do not forget to reset <code>\minalignsep</code> if you change it in this manner.
<i>II-140</i> ^s	para 2, l.4	(bb/FMi)	Add: You can think of them as subsidiary environments that can be used within any of the display environments discussed so far. (Below we use them inside equation.)
<i>II-140</i> ^s	para -1	(FMi)	Paragraph moved to page 141.
<i>II-141</i> ^s		(FMi)	One paragraph moved over from page 140.
<i>II-144</i> ^s	para 2, l.-3	(FMi)	the issue → the <u>spacing</u> issue
<i>II-145</i> ^s	para 2, l.1	(bb/FMi)	Add: Another problem is that an empty line introduces an unwanted break point in front of the display, thus <code>\predisplaypenalty</code> is no longer honored.
<i>II-167</i> ^s	para. 3, l. -2	(BeB)	<u>optione</u> → <u>options</u>
<i>II-178</i> ^s	Tab. 11.3, l. -3	(BeB)	in the description column: <u>array-symbol-arrow</u> → <u>arrow-symbol-arrow</u>
<i>II-178</i> ^s	table 11.3, l.10	(EOI)	Cross- <u>produce</u> tensor → Cross- <u>product</u> tensor

<i>II-225</i> ^s	heading	(FMi)	Chapter title not properly capitalized.
<i>II-229</i> ^s	para -3, l.1	(BeB)	for Lucida fonts → Lucida <u>and</u> Cambria fonts
<i>II-274</i> ^s	exa 12-18-fig	(FMi)	The Cambria fonts currently require a Cambria.fontspec file (possibly temporary) when used with LuaT _E X — see errata on page II-50. Without it, the bold fonts are not correctly set up, which is why they are missing in the section heading of the example.
<i>II-261</i> ^s	para 3, l.3	(FMi)	Yoda spoke it seems: ... <u>and compare we should</u> → ... <u>and you should compare</u>

Chapter 13 — Localizing Documents

<i>II-297</i> ^s	heading	(FMi)	Chapter title not properly capitalized.
<i>II-332</i> ^s	exa 13-5-2, and above	(FMi)	The keyword Harfbuzz should be spelled HarfBuzz . Both names are supported, but the recommended spelling is HarfBuzz .

Chapter 14 — Index Generation

Chapter 15 — Bibliography Generation

<i>II-435</i> ^s	code	(FMi)	<code>\textcolor{See} → \textcolor{blue}{See}</code>
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Chapter 16 — Managing Citations

Chapter 17 — L^AT_EX Package Documentation Tools

<i>II-599</i> ^s	para 3, l.1	(EOI)	<u>When</u> creating automatically the driver → <u>When</u> the driver
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Appendix A — L^AT_EX Overview for Preamble, ...

<i>II-682</i> ^s	para -2, l.3	(FMi)	Harfbuzz → HarfBuzz
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Appendix B — Tracing and Resolving Problems

Appendix C — Going Beyond

<i>II-297</i> ^s	heading	(FMi)	Appendix title not properly capitalized.
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Biographies

Production Notes

Notes on this errata document

Thanks to all who have found errors or omissions. Listed are the people who found an errata entry first.

BeB	Bernd Burghardt (26)	FMi	Frank Mittelbach (60)	bb	Barbara Beeton (10)
DFI	Daniel Flipo (1)	MJo	Maciej Jończyk (1)	kb	Karl Berry (13)
EOI	Edgar Olthof (4)	YFu	FUJIMURA Yukitoshi (1)		

Other people have sent us corrections for errors already found. Thanks to all of you!

If you find further errors please report them to one of the authors, e.g.,

`frank.mittelbach@latex-project.org`

preferably in a form usable directly in this file, i.e.,

```
\erroronpage{page-number}{line-identification}{your-initials}{date}{}
description of the erratum
```

Here is an example:

```
\erroronpage{5}{para 3, 1.1}{FMi}{2023/06/21}{}
\u{LaTeX} \> \u{\LaTeX}
```

`\u{...}` underlines a text fragment, `\>` produces \rightarrow , and `\bl` is a short form for `\color{blue}`.