Errata list for The \LaTeX\ Graphics Companion

(1. printing)

Includes all entries found up to 2002/02/25

\@book\{A-W:GMR97, \\
author = {Michel Goossens and Sebastian Rahtz and \\
Frank Mittelbach}, \\
title = {The \LaTeX\ Graphics Companion}, \\
subtitle = {Illustrating Documents with \TeX\ and PostScript},
series = "Tools and Techniques for Computer Typesetting",
publisher = {Addison-Wesley}, \\
address = {Reading, Massachusetts}, \\
year = 1997, \\
ISBN = "0-201-85469-4", \\
LCCN = "Z253.4.L386663 1997", \\
pagenums = {xxv + 554}, \\
source-infos = {yes}, \\
bibliography = {yes}, \\
index = {yes}, \\
price = "US\$39.75",
\}

The latest version of this file (grphcomp.err) can be found as part of the \LaTeX\ distribution.

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. The second column gives the precise location, negative line numbers are counted from the bottom of the page. The third column shows the first finder of the problem.

<table>
<thead>
<tr>
<th>General</th>
</tr>
</thead>
<tbody>
<tr>
<td>(FMi)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Front matter</th>
</tr>
</thead>
<tbody>
<tr>
<td>xxii$^2$ 1.8 (FMi)</td>
</tr>
</tbody>
</table>
Add the following information:
In order to save space on the pages, and make the example code look less cluttered, we do not print self-contained code. This means that you can not simply type in what you read, and feed it to \LaTeX, or the other programs. In particular, we omit:

- \documentclass... (\LaTeX)
- \begin{document} and \end{document} (\LaTeX)
- \begin{fig}... and \end{fig} (Metapost)
- input graph (Metapost \S 3.3.1)
- input boxes (Metapost \S 3.3.2)

However, we do always show \LaTeX \texttt{\usepackage} declarations as it is not always obvious which packages have to be loaded.

If you have trouble reproducing one of the examples you should get the example files from CTAN, which are all self-contained runnable examples.

Chapter 1

4 l.2 of bulleted item (PMcJ) in form $\rightarrow$ in the form

4 l.-7 (PMcJ) surprisingly $\rightarrow$ surprising

$5^2$ last para, l.2 (VSc) Delete second "the" in: is perhaps the the most flexible one

18 l.-7 (AMM) to define an specialized $\rightarrow$ to define a specialized

20 top (DGi) PSTricks packages most of $\rightarrow$ PSTricks packages offer most of

20 l.16 (PMcJ) Hewlett Package $\rightarrow$ Hewlett-Packard

21 fig. 1.19 (AMM) The explanation of plot lines ('decade.*') are awfully positioned over the plot (this is the default positioning, perhaps a different set of data would be selected).

22 top (DGi) delete second 'with' in "with with the troff program."

22 l.16 (PMcJ) .PE statement $\rightarrow$ a .PE command

25 l.-10 (AMM) AutoCAD for archaeologists $\rightarrow$ AutoCAD for designers (archaeologists are very very special users of AutoCAD, which is much more popular among architects or engineers)

Chapter 2

29$^2$ l.-2 (NBe) add comma: TIFF, PCX

33 keepaspectratio (JOI) Replace “the values” by “the value”. suggestion: Replace “above for defaults” by “above for the default”.

39$^2$ line 5 (DCa) orient key should be origin key (as shown on previous line;-)
Add the following sentence: The syntax for specifying directories is system dependent but Windows and Unix implementations allow the use of / as a directory separator, i.e., the above example should work on both platforms.

All the entries in the ‘ext’ and ‘read-file’ columns ought to start with a ‘.’, e.g., .ps .eps ...

Example should read:
\DeclareGraphicsRule{.ps.gz}{eps}{.ps.bb}{'gunzip -c #1}'

\“cőln and Rh\“one should be 8-bit markup (the 7 bits syntax make TeX appear paleothic)

Replace “centre” by “center” to be consistent with the other two “center’s” in the figure.

The definition of \Bpara doesn’t show everything, add in front \newcommand\Bpara[4]{% and a closing } after \end{picture}

Add a comment about clockwise and counterclockwise options to define the direction of rotation.

Missing space before 0

a object → an object

an METAFONT → a METAFONT

is three real numbers between 0 and 1 for each read, green and blue, → consists of three real numbers between 0 and 1, corresponding to red, green, and blue,

delete second ‘the’ in “to apply the the bbox command”

Why is the first peak rotated to the left? printing problem? MP problem? or what? — actually seems to be a data problem


METAFONT code, , and → METAFONT code, mftops.mf, and

Second ref to Fig. 3.3 should reference Fig. 3.4 instead

replace term “curly brackets” by “braces” (Commonwealth usage)
Errata for The \LaTeX\ Graphics Companion (up to 2002/02/25)

97\textsuperscript{2} 1.-3 (NBe) replace term “curly brackets” by “braces” (Commonwealth usage)

99 top (DGi) “so that you can use polar coordinates …” → “so that you can use several other powerful systems of coordinate specification, such as polar coordinates …”

100 ex. 4-2-5 (DGi) \[
\begin{psset}{dimen=inner}
\psframe (1,1)(4,4)
\end{psset}
\]
would be better expressed as \[
\psframe[dimen=inner](1,1)(4,4)
\]

100 middle (AMM) Avoid line breaking after Chapter: “Chapter~2”.

100 middle (DGi) “we recommend that \LaTeX\ users stick with the color package” — note that ‘color’ is available with ‘plain’ also.

100–101 ex 4-3-1 (DGi) The \texttt{\psclip} ... \texttt{\endpsclip} syntax is not coherent with the choice made for \texttt{pspicture} on page 97. It should be \texttt{\begin{psclip}} ... \texttt{\end{psclip}}, with a note like “The special \LaTeX\ environment (plain \TeX\ users must code \texttt{\Environment_name} ... \texttt{\end\Environment_name})”

101 4 (DGi) analogous → analogous

102\textsuperscript{2} 1.4 (UMu,FMi) Replace para by: This places \emph{stuff} in the direction \texttt{refangle} at a distance of \texttt{labelsep} from \texttt{(x,y)}. If \texttt{labelsep} is not specified the current value of \texttt{\labelsep} (defaults to 5pt in standard \LaTeX) is used. Since angles are …

104 top (DGi) replace first ‘each’ with ‘at’ in “print a dot each each of the”

104 ex.4-4-4 to 4-4-7 (FMi) Missing refs to plates IIa-d

106 Table 4.4 (DGi) diamond and diamond* results are the wrong way around (it was an old bug corrected by DGi March 18, 1997)

107 ex.4-5-2 (PGu) \texttt{\usepackage[pstricks]} → \texttt{\usepackage[pstcol]}

110\textsuperscript{2} ex.4-5-13 (FMi) Missing \texttt{\usepackage[latin1]{inputenc}} \texttt{\usepackage[ps-text]} declaration on top of example

114–120\textsuperscript{2} ex.4-6-1 up to 4-6-23 (UMu) Change \texttt{\usepackage \{pstricks\}} to \texttt{\usepackage \{pstricks, pst-node\}}

115 middle (DGi) “describing the matrix and tree package’ can be confusing as the reader may believe that there is a ‘matrix’ package—perhaps “describing the matrix environment and tree package”

124\textsuperscript{2} ex.4-6-32 (FMi) Missing ref to plate VIb
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125² 1.2  (TRa)  
replace: successive columns to overlap

128  ex. 4-6-39  (DG)  
Avoid 7-bit coding, use 8-bit

133² 1.2  (RFa)  
Narrative says that the curves are \( \sin(x) \), \( \sin(x^2) \) and \( \cos(x) \). Code says \( <x \text{ dup sin exch cos mul}> \), which isn’t \( \sin(x^2) \), it’s \( \sin(x) \cos(x) \) (aka \( 0.5 \sin(2x) \))

134  bottom  (DG)  
“(written in sh and awk, it is called pie-chart.sh and can be found in the PSTricks distribution.)” Note that it will be soon be reissued as \( \text{PstChart} \), written in Perl.

137  ex. 4-8-4  (FMi)  
Missing ref to plate IVa

145² 1.7  (DCa)  
pstpoly \( \rightarrow \) pst-poly

146² 1.2  (DCa)  
pstpoly \( \rightarrow \) pst-poly

146  ex. 4-10-7  (DG)  
\( \text{\texttt{PstRegularPolygon \rightarrow PstPolygon}}, \text{\texttt{RPolyCurves \rightarrow PolyCurves}}, \text{\texttt{RPolyIntermediatePoint \rightarrow IntermediatePoint}}, \text{\texttt{RPolyNbSides \rightarrow PolyNbSides}}, \text{\texttt{RPolyOffset \rightarrow PolyOffset}} \). (changes in package)

154  top  (DG)  
pstVerb \( \rightarrow \text{\texttt{\pstVerb}} \)

154² 1.9  (NBe)  
\texttt{fi you need} \( \rightarrow \) \texttt{if you need}

155  bottom  (DG)  
delete \( (x1,y1) \) from end of psline entry

157  top  (DG)  
For gradbegin and gradend, note defaults of 0.0 0.1 0.95 and 0 1 1 (rbg values); default of gradlines would be 300 not 500

157  top  (DG)  
add “arrows==style”

158  bottom  (DG)  
arrowlength default is 1.4

158  bottom  (DG)  
arrowinset default is 0.4; tbarsize default is 2pt 5; bracketlength default is 0.15; rbracketlength default is 0.15; arrowscale default is 0.1.

159–160  (DG)  
\{text\} is very restrictive. In fact it can be a lot of other things.
\texttt{stuff} in the PSTricks manual was clearer.

159  middle  (DG)  
\texttt{\Rnode(x,y){name}{text} \rightarrow \Rnode*[settings]{name}{text}} (the syntax had changed in 1994)

160  middle  (DG)  
ncdiag ‘\texttt{arrows}’ \( \rightarrow \) ‘\texttt{arrows}’

163  middle  (DG)  
insert:
\texttt{\pcangles*[settings]{arrows}(x1,y1)(x2,y2) \pcdiagগ*[settings]{arrows}(x1,y1)(x2,y2)}

164  middle  (DG)  
default for edge is \texttt{\ncline}
165  top  (DGi)  treenodes \rightarrow \texttt{treenodesize}

165  bottom  (DGi)  psxlabel \rightarrow \texttt{pshlabel} (twice)

165  bottom  (DGi)  psylabel \rightarrow \texttt{psylabel}

Chapter 5

170²  1.8  (NBe)  substract \rightarrow \texttt{subtract}

181²  exa 5-5-4  (NBe)  The line from $L$ to $\Sigma^L$ in the upper left corner is too long, and
overlaps the first $L$.

183²  exa 5-5-6  (EGu)  The $C / saved d[3]$ should be framed as well

188  middle  (DGi)  associated \rightarrow \texttt{associated}

202²  exa 3-3-33  (EGu)  The labels can be better spaced within the windows they get from the
curves

203²  exa 3-3-34  (EGu)  The labels can be better spaced within the windows they get from the
curves

Chapter 6

206  1.4  (UVi)  On the subject of typesetting rules for scientific texts, consider adding
a reference to Beccari (1997), TUGboat 18#1, pp. 39–48, which was
published after the LGC, but should be a good reference anyway.

206  1.21  (PMcJ)  texts packages \rightarrow \texttt{texts, packages}

208²  1.-14  (NBe)  set of macros are needed \rightarrow \texttt{set of macros is needed}

244  table  (UVi)  The voltmeter symbol looks the same as that of the current source
one line above, so you probably got the wrong symbol.

Chapter 7

254  1.7  (BLu)  missing space between ‘MuTeX’ and ‘to’

257²  (AMI)  The clefs on the left of the staves and a few other symbols like
\texttt{\textbackslash allabreve} are positioned too high on the staves. How that could
have happened is beyond me—on my last printout before the actual
printing it is correct (FMi)

259²  1.12  (NBe)  into an music \rightarrow \texttt{into a music}

259  -4  (JKr)  delete second “with” in “with with \texttt{r... or \l...}”

Chapter 8
The chessfont used (chessf10) is not correct. The knight-character used in the notation (not for the board) is supposed to look to the right, not to the left. If one uses the font chess10f from the bdfchess-package and renames it, that font is correct.

In the command description for \whitepoint and \blackpoint the position and number of stones are reversed. Replace \{n\}\{p\} with \{p\}\{n\} twice.

\begin{itemize}
\item \textit{Chapter 9}
\begin{itemize}
\item 312^2 9.1.1, para 1, l.3 bottom (MGo) “Isacc Newton” should be “Isaac Newton”
\item 312^2 9.1.1, para 2, l.4 (BBe) Thomas Young, an English doctor
\item 313 9.1.2, l.2 (JRe) “substractive” should be “subtractive”
\item 313^2 9.1.2, bullet 1, l.12 (MGo) “output devide” should be “output device”
\item 313^2 9.1.2, bullet 1, l.13 (BBe) Yellow, \textbf{Black}
\item 313^2 9.1.2, bullet 1, l.14 (BBe) Brightness or \textbf{Value}
\item 313^2 9.1.2, bullet 2, l.12 (BBe) colormetric
\item 313^2 1.-2 (MGo) “phosphoros” should be “phosphorous”
\end{itemize}
\end{itemize}
The difference between these 3 pagestyle examples are nearly invisible (plain has a number at the bottom and align has a page number on the top-left corner and position marks on the three others.

can contains → can contain

Chapter 10

→ Computer Modern, Concrete Math, Euler Math, MathTime, and Lucida New Math. (See CTAN:fonts/concmath and CTAN:macros/latex/contrib/supported/concmath)

none of Computer Modern, Euler Math or Lucida work → none of Computer Modern, Euler Math, or Lucida works

package file times.sty [the same typeface should be used]
download → downloaded
organized up → organized
(named config. Short Family Name (e.g., → (named config. Short Family Name, e.g.,

Adobe Garamond’s short name is pag → pgm (3 times) (pag is AvantGarde!)

discusses of how → discusses how
0.0777779 → 0.077779
Add ‘might’: ... if any of them is zero it might be omitted.
CHECKSUM → FONTCHECKSUM
“V...” should be italic not bold
an old distribution of dvips).
are left undefined are for use → are left undefined for use
Add I twice: one one I=:|>> exclam ;
creates a mtx → creates an mtx
Delete line as it is the same as code line nr 7.
Delete line as it is the same as code line nr 13.
line numbering should continue with 10
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403² l.5 (FMi) line numbering should continue with 13

405 l.2 (UVi) Is the overfull hbox in “bold-face math italic” intentional?

407² l.8 (NBe) applies → apply

411 table 10.8 (SPQR) Fontname code for “hairline” should be “a” not “h”.

Chapter 11

426 table (UVi) The closing brace in the example about inserting literal PostScript is misplaced. It probably should be:
\special{"newpath 0 0 moveto 100 100 lineto stroke}

429 l.2 (WaS) Slanting was forgotten; the complete example should read:

\mbbo8r Bembo-Bold " .167 SlantFont TeXBaseEncoding ReEncodeFont " <8r.enc <mbbb8a.pfb

Replace \mbbo8r with \mbbbo8r accordingly in line 4.

434² 11.3, l.5 (BDr) to-to-bottom → top-to-bottom

442² 11.4, l.3 (BBe) a very few PostScript Level 2 features

446² l.-17 (NBe) to these. so that → to these, so that

446² l.-14 (NBe) brackets → parentheses

448² l.-4 (NBe) doc\%02d.tif → doc\%02d.tif

450 l.8 (PKa) -sShingling → -dShingling

450 sec. 11.4.4 (UVi) Mention the existance of gv by Johannes Plass, a recent development derived from GhostView by Tim Theissen?

452² l.-2 (BBe) Use sans font throughout: Adobe Illustrator 3

454 l.9 (AMM) -Eextension → -Eexpansion

461² l.10 (NBe) preceed → precede

462 (DSe) Daniel Sebald suggested to explain in some detail how to use xfig with \LaTeX. (So far we haven’t checked this method.) He wrote:
The following is a description of how to use xfig to generate quality postscript pictures then incorporate \LaTeX text. It is a bit of a round-about method, but not too bad given the flexibility and quality of output. Furthermore, because in this method basically the only \LaTeX picture element used is text (lines, etc. are PostScript) \LaTeX runs more efficiently than if only \LaTeX picture elements are used.
1. Draw the picture in xfig and change the font types to "LaTeX fonts". Use the xfig export feature that will output the nice quality lines, circles, etc. to a PostScript file and export the \LaTeX fonts and locations to a separate \LaTeX file. The option is called "Combined PS/LaTeX (both parts)". (Remember you must edit the font type to be \LaTeX font.) The \LaTeX file includes the PostScript file via the \special command.

A neat little trick is to type math using the \LaTeX syntax directly on the xfig figure, e.g., $\sum_{n=0}^{\infty}$ then select "special" under the special flag in the text edit box so that xfig doesn’t add extra backslashes to generate such things as $\$, \_, etc. Then when compiling in the next step the result is nicely formatted math text. Granted, the text doesn’t look right in xfig, but with only a bit of guessing and using left|center|right alignment properly this is no big problem.

Positioning can be done using the justification in the text edit box to prevent extra white space appearing in the final figure because xfig treats the whole text string when computing figure borders. (If a long string of text obstructs the figure in xfig the hidden flag can be selected in the text edit box to hide the text string from the screen.)

2. Create a simple file such as follows:

```latex
\documentclass{article}
\usepackage{epsfig}
\begin{document}
\pagestyle{empty}
\input{filename.pstex_t}
\end{document}
```

then compile it under \LaTeX. Now use dvips to turn this into an encapsulated PostScript file. That is

```
> dvips filename -E -o filename.eps
```

3. In your final document simply treat the generated eps file just as you would any eps file. There are \LaTeX packages that allow scaling of such figures. Because the text is now in the eps file it gets scaled accordingly.

An alternate method instead of step 2 is simply to input `filename.pstex_t` into the final \LaTeX document. This works fine but the flexibility of scaling text may not exist.

4. Use your imagination! xfig allows importing PostScript documents. So you can bring in pictures generated by other programs, e.g., Matlab, and add annotation with the method described above.

### Appendix A

```
463^2 1-6 (NBe) this requires \ldots are given → this requires \ldots be given
[Subjunctive, rather than indicative, is called for here, because “require” is a condition.]
```

```
471 column 4, l.8 (PMcJ) u:\ NimbusMonL
```
Errata for The \TeX Graphics Companion (up to 2002/02/25)

\begin{itemize}
\item $472^2$ column 3, l.17 (BB\e) \quad u:NimbusSanL
\item $473^2$ column 4, l.21 (BB\e) \quad rw (rockwell) RockwellSlate
\item $475ff^2$ table heading (BB\e) \quad Use uppercase: ISO Latin
\item $480$ perthousand (PG\u) \quad Glyph for perthousand is a small 0 → should be like 0/00
Actually, the glyph is a small 0 in in several fonts (the perthousand is then generated internally as a ligature with %)
\item $482–487$ Table A.4 (WaS) \quad Table A.4 is lacking the entries for the slots 38 and 139, and slot 89 is listed twice.
38 is ampersand throughout.
139 is Naacute, guilsingleft, empty, empty, guilsingleft, atilde,
perthousand in the encodings from left to right.
The above errors have been added to second (corrected) printing and are not present in the first printing.
\item $482^2$ caption (FM\i) \quad the characters “Table A.4:” are set in the wrong size (too small)
\item $484^2$ l.-3,-4 (BB\e) \quad guilsingleft and guilsingright → guilsingleft and guilsingright
\item $489^2$ l.8 (BB\e) \quad \ldots \{\text{depth}\}\ldots
\item $491^2$ l.20 (BB\e) \quad you can use expressions such as $\text{\width{glyph}}$
\end{itemize}

\begin{appendix}
\section*{Appendix B}

\begin{itemize}
\item $498$ (AO\g) \quad Add ctan.tug.org to the list of CTAN sites (others may need update as well)
\item $498$ l.10 (PMc\J) \quad it → is
\item $506^2$ l.-8 (SPQR) \quad fonts/psfonts/adobe/garamond → CTAN:fonts/psfonts/adobe/garamond
\item $506^2$ l.-11 (BB\e) \quad see http://www.adobe.com./prodindex/framemaker/main.html
\item $507^2$ l.17 (BB\e) \quad remove surplus %
\item $507$ l.17 (MG\o) \quad The old URL is obsolete, a new one is
http://www.imsisoft.com/hijaak/index.html
\item $507^2$ l.-3 (BB\e) \quad CTAN:fonts/utila/mm
\item $508^2$ l.5 (BB\e) \quad http://www.mathworks.com
\item $508^2$ l.11 (BB\e) \quad CTAN:fonts/utila/mm
\end{itemize}

\end{appendix}

Bibliography
Do not use typewriter for “seminar.sty” or use typewriter also with next item.

5162

Index

523 graphicx depth key (PMcJ,FMi) Spurious entry, depth is no keyword for graphicx package
529p picture (FMi) Add reference to p.48
535 Document classes (FMi) Document classes → Document Classes
543 graphicx depth key (FMi) Spurious entry, depth is no keyword for graphicx package
5462 \heat (FMi) Typo: remove and add p.302 to \heart instead

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

AMi Arno Mittelbach FMi Frank Mittelbach RFa Robin Fairbairns
AMM Alberto Maria Marchetti JKr Jürgen Krämer SPQR Sebastian Rahtz
AOg Arthur Ogawa JOI Jeffrey D. Oldham TJe Tarjei T. Jensen
BBe Barbara Beeton JRI Jonathan Rich TRa T. V. Raman
BDr Bernard Drapeau MGo Michel Goossens UMu Uwe Münch
BLu Ben Lukoschus MWa Michael Wanko UVi Ulrik Vieth
DCa David Carlisle NBe Nelson H. F. Beebe VSc Volker RW Schaa
DGi Denis Girou PGu Patrick Gundlach WaS Walter Schmidt
DSe Daniel Sebald PKa Peter Kabal JUI Julian Ullmann
EGu Eitan Gurari PMcJ Paul McJones

If you find further errors please report them to one of the authors

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sebastian.rahtz@oucs.ox.ac.uk
goossens@cern.ch

preferable in a form usable for this file, i.e.,

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

Here is an example:

\erroronpage{4}{1.-7}{PMcJ}{1998/06/11}\{}
surprisingly \> surprising