NOTES FROM THE METHOD OF COORDINATES

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The Coordinates of Points on a Line

The Number Axis

A number axis is a line with three important pieces of information associated with it:

- 1. An origin,
- 2. A unit of measurement, and
- 3. A positive direction.

When we use a number axis to specify the position or coordinate of a point, we are implicitly making the assumption that there is a one-to-one correspondence between the points of the number axis and the numbers; in other words, every point on the number axis corresponds to a unique number and every number corresponds to a unique point. Proving this assumption is non-trivial; for example, at the onset we face two hard-to-answer questions:

- 1. What is a number?
- 2. What is a point?

The Absolute Value of a Number

EXERCISE-5(b)

Solve the equation |x + 1| + |x + 2| = 1.

Let x + 1 = a. Then x + 2 = a + 1. So, the given equation becomes

$$|a| + |a + 1| = 1$$

We want a to be such that the sum of the distances from the origin of the two points A(a) and A(a+1) is equal to 1. Note, A(a+1) cannot be to the left of the origin, because then A(a) which is 1-unit to the left of A(a+1) will also be to the left of the origin; since there is a

1-unit gap between A(a) and A(a + 1), their distances from the origin would then sum to a number bigger than 1.

Also, A(a+1) cannot be to the right of the point A(1), because then both A(a) and A(a+1) would be to the right of the origin and their distances would sum up to a number bigger than 1.

Therefore, A(a+1) can be between A(0) and A(1), inclusive. In other words, $0 \le a+1 \le 1$, or $-1 \le a \le 0$. Since a=x+1, we have $-1 \le x+1 \le 0$, or $-2 \le x \le -1$.

The equation thus have infinitely many solutions, all real numbers x for which $-2 \le x \le -1$ holds, are solutions.

On the Use of the tufte-book Document Class

The Tufte-LATEX document classes define a style similar to the style Edward Tufte uses in his books and handouts. Tufte's style is known for its extensive use of sidenotes, tight integration of graphics with text, and well-set typography. This document aims to be at once a demonstration of the features of the Tufte-LATEX document classes and a style guide to their use.

Page Layout

Headings

This style provides A- and B-heads (that is, \section and \subsection), demonstrated above.

If you need more than two levels of section headings, you'll have to define them yourself at the moment; there are no pre-defined styles for anything below a \subsection. As Bringhurst points out in *The Elements of Typographic Style*, you should "use as many levels of headings as you need: no more, and no fewer."

The Tufte-LATEX classes will emit an error if you try to use \subsubsection and smaller headings.

IN HIS LATER BOOKS,² Tufte starts each section with a bit of vertical space, a non-indented paragraph, and sets the first few words of the sentence in SMALL CAPS. To accomplish this using this style, use the \newthought command:

\newthought{In his later books}, Tufte starts...

Sidenotes

One of the most prominent and distinctive features of this style is the extensive use of sidenotes. There is a wide margin to provide ample room for sidenotes and small figures. Any \footnotes will automatically be converted to sidenotes.³ If you'd like to place ancillary

¹ Robert Bringhurst. *The Elements of Typography*. Hartley & Marks, 3.1 edition, 2005. ISBN 0-88179-205-5

² Edward R. Tufte. *Beautiful Evidence*. Graphics Press, LLC, first edition, May 2006. ISBN 0-9613921-7-7

³ This is a sidenote that was entered using the \footnote command.

information in the margin without the sidenote mark (the superscript number), you can use the \marginnote command.

The specification of the \sidenote command is:

```
\sidenote[\langle number \rangle][\langle offset \rangle] \{Sidenote\ text.\}
```

Both the $\langle number \rangle$ and $\langle offset \rangle$ arguments are optional. If you provide a *(number)* argument, then that number will be used as the sidenote number. It will change of the number of the current sidenote only and will not affect the numbering sequence of subsequent sidenotes.

Sometimes a sidenote may run over the top of other text or graphics in the margin space. If this happens, you can adjust the vertical position of the sidenote by providing a dimension in the *(offset)* argument. Some examples of valid dimensions are:

```
1.0in
         2.54cm
                   254mm
                             6\baselineskip
```

If the dimension is positive it will push the sidenote down the page; if the dimension is negative, it will move the sidenote up the page.

While both the $\langle number \rangle$ and $\langle offset \rangle$ arguments are optional, they must be provided in order. To adjust the vertical position of the sidenote while leaving the sidenote number alone, use the following syntax:

```
\sidenote[][\langle offset \rangle]{Sidenote\ text.}
```

The empty brackets tell the \sidenote command to use the default sidenote number.

If you only want to change the sidenote number, however, you may completely omit the *(offset)* argument:

```
\sidenote[\langle number \rangle] \{ Sidenote\ text. \}
```

The \marginnote command has a similar *offset* argument:

```
\mbox{\mbox{marginnote}} \mbox{\mbox{\mbox{\mbox{\mbox{}}}} \mbox{\mbox{\mbox{}}} \mbo
```

References

References are placed alongside their citations as sidenotes, as well. This can be accomplished using the normal \cite command.4

The complete list of references may also be printed automatically by using the \bibliography command. (See the end of this document for an example.) If you do not want to print a bibliography at the end of your document, use the \nobibliography command in its place.

To enter multiple citations at one location,⁵ you can provide a list of keys separated by commas and the same optional vertical offset argument: \cite{Tufte2006,Tufte1990}.

```
\cite[\langle offset \rangle] \{bibkey1, bibkey2, ...\}
```

This is a margin note. Notice that there isn't a number preceding the note, and there is no number in the main text where this note was written.

⁴ The first paragraph of this document includes a citation.

⁵ Edward R. Tufte. Beautiful Evidence. Graphics Press, LLC, first edition, May 2006. ISBN 0-9613921-7-7; and Edward R. Tufte. Envisioning Information. Graphics Press, Cheshire, Connecticut, 1990. ISBN 0-9613921-1-8

Figures and Tables

Images and graphics play an integral role in Tufte's work. In addition to the standard figure and tabular environments, this style provides special figure and table environments for full-width floats.

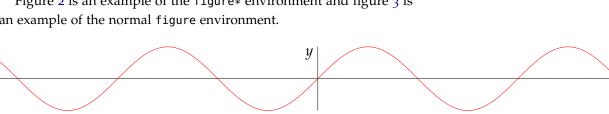
Full page-width figures and tables may be placed in figure* or table* environments. To place figures or tables in the margin, use the marginfigure or margintable environments as follows (see figure 1):

```
\begin{marginfigure}
   \includegraphics{helix}
   \caption{This is a margin figure.}
   \label{fig:marginfig}
\end{marginfigure}
```

The marginfigure and margintable environments accept an optional parameter *(offset)* that adjusts the vertical position of the figure or table. See the "Sidenotes" section above for examples. The specifications are:

```
\begin{marginfigure} [\langle offset \rangle]
\end{marginfigure}
\begin{margintable} [\langle offset \rangle]
\end{margintable}
```

Figure 2 is an example of the figure* environment and figure 3 is an example of the normal figure environment.



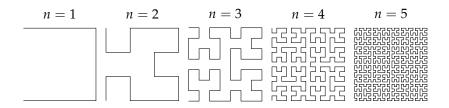


Figure 3: Hilbert curves of various degrees n. Notice that this figure only takes up the main textblock width.

Figure 2: This graph shows $y = \sin x$ from about x = [-10, 10]. Notice that this figure takes up the full page width.

Figure 1: This is a margin figure. The helix is defined by $x = \cos(2\pi z)$, $y = \sin(2\pi z)$, and z = [0, 2.7]. The figure was drawn using Asymptote (http://asymptote.sf.net/).

As with sidenotes and marginnotes, a caption may sometimes require vertical adjustment. The \caption command now takes a second optional argument that enables you to do this by providing a dimension $\langle offset \rangle$. You may specify the caption in any one of the following forms:

```
\caption{long caption}
\caption[short caption] {long caption}
\caption[][\(\lambda ffset \rangle ] {long caption}
\caption[short caption][\(\lambda ffset \rangle ] {long caption}
```

A positive $\langle offset \rangle$ will push the caption down the page. The short caption, if provided, is what appears in the list of figures/tables, otherwise the "long" caption appears there. Note that although the arguments $\langle short\ caption \rangle$ and $\langle offset \rangle$ are both optional, they must be provided in order. Thus, to specify an $\langle offset \rangle$ without specifying a $\langle short\ caption \rangle$, you must include the first set of empty brackets [], which tell \caption to use the default "long" caption. As an example, the caption to figure 3 above was given in the form

```
\caption[Hilbert curves...][6pt]{Hilbert curves...}
```

Table 1 shows table created with the booktabs package. Notice the lack of vertical rules—they serve only to clutter the table's data.

Margin	Length
Paper width	81/2 inches
Paper height	11 inches
Textblock width	61/2 inches
Textblock/sidenote gutter	3/8 inches
Sidenote width	2 inches

Table 1: Here are the dimensions of the various margins used in the Tuftehandout class.

Occasionally LATEX will generate an error message:

Error: Too many unprocessed floats

LATEX tries to place floats in the best position on the page. Until it's finished composing the page, however, it won't know where those positions are. If you have a lot of floats on a page (including sidenotes, margin notes, figures, tables, etc.), LATEX may run out of "slots" to keep track of them and will generate the above error.

LATEX initially allocates 18 slots for storing floats. To work around this limitation, the Tufte-LATEX document classes provide a \morefloats command that will reserve more slots.

The first time \morefloats is called, it allocates an additional 34 slots. The second time \morefloats is called, it allocates another 26 slots.

The \morefloats command may only be used two times. Calling it a third time will generate an error message. (This is because we can't safely allocate many more floats or LATEX will run out of memory.)

If, after using the \morefloats command twice, you continue to get the Too many unprocessed floats error, there are a couple things you can do.

The \FloatBarrier command will immediately process all the floats before typesetting more material. Since \FloatBarrier will start a new paragraph, you should place this command at the beginning or end of a paragraph.

The \clearpage command will also process the floats before continuing, but instead of starting a new paragraph, it will start a new page.

You can also try moving your floats around a bit: move a figure or table to the next page or reduce the number of sidenotes. (Each sidenote actually uses two slots.)

After the floats have placed, LATEX will mark those slots as unused so they are available for the next page to be composed.

Captions

You may notice that the captions are sometimes misaligned. Due to the way LATEX's float mechanism works, we can't know for sure where it decided to put a float. Therefore, the Tufte-LATEX document classes provide commands to override the caption position.

Vertical alignment To override the vertical alignment, use the \setfloatalignment command inside the float environment. For example:

```
\begin{figure}[btp]
   \includegraphics{sinewave}
   \caption{This is an example of a sine wave.}
   \label{fig:sinewave}
   \setfloatalignment{b}% forces caption to be bottom-aligned
\end{figure}
```

The syntax of the \setfloatalignment command is:

```
\strut \strut
```

where $\langle pos \rangle$ can be either b for bottom-aligned captions, or t for top-aligned captions.

Horizontal alignment To override the horizontal alignment, use either the \forceversofloat or the \forcerectofloat command inside of the float environment. For example:

```
\begin{figure}[btp]
   \includegraphics{sinewave}
   \caption{This is an example of a sine wave.}
   \label{fig:sinewave}
```

\forceversofloat% forces caption to be set to the left of the float \end{figure}

The \forceversofloat command causes the algorithm to assume the float has been placed on a verso page—that is, a page on the left side of a two-page spread. Conversely, the \forcerectofloat command causes the algorithm to assume the float has been placed on a recto page—that is, a page on the right side of a two-page spread.

Full-width text blocks

In addition to the new float types, there is a fullwidth environment that stretches across the main text block and the sidenotes area.

```
\beain{fullwidth}
Lorem ipsum dolor sit amet...
\end{fullwidth}
```

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Typography

Typefaces

If the Palatino, Helvetica, and Bera Mono typefaces are installed, this style will use them automatically. Otherwise, we'll fall back on the Computer Modern typefaces.

Letterspacing

This document class includes two new commands and some improvements on existing commands for letterspacing.

When setting strings of ALL CAPS or SMALL CAPS, the letterspacing—that is, the spacing between the letters—should be increased slightly.⁶ The \allcaps command has proper letterspacing for strings of FULL CAPITAL LETTERS, and the \smallcaps command has letterspacing for SMALL CAPITAL LETTERS. These commands will also automatically convert the case of the text to upper- or lowercase, respectively.

The \textsc command has also been redefined to include letterspacing. The case of the \textsc argument is left as is, however.

⁶ Robert Bringhurst. The Elements of Typography. Hartley & Marks, 3.1 edition, 2005. ISBN 0-88179-205-5

This allows one to use both uppercase and lowercase letters: The INITIAL LETTERS OF THE WORDS IN THIS SENTENCE ARE CAPI-TALIZED.

Document Class Options

The tufte-book class is based on the LATEX book document class. Therefore, you can pass any of the typical book options. There are a few options that are specific to the tufte-book document class, however.

The a4paper option will set the paper size to A4 instead of the default us letter size.

The sfsidenotes option will set the sidenotes and title block in a sans serif typeface instead of the default roman.

The twoside option will modify the running heads so that the page number is printed on the outside edge (as opposed to always printing the page number on the right-side edge in oneside mode).

The symmetric option typesets the sidenotes on the outside edge of the page. This is how books are traditionally printed, but is contrary to Tufte's book design which sets the sidenotes on the right side of the page. This option implicitly sets the twoside option.

The justified option sets all the text fully justified (flush left and right). The default is to set the text ragged right. The body text of Tufte's books are set ragged right. This prevents needless hyphenation and makes it easier to read the text in the slightly narrower column.

The bidi option loads the bidi package which is used with X¬TLATEX to typeset bi-directional text. Since the bidi package needs to be loaded before the sidenotes and cite commands are defined, it can't be loaded in the document preamble.

The debug option causes the Tufte-LATEX classes to output debug information to the log file which is useful in troubleshooting bugs. It will also cause the graphics to be replaced by outlines.

The nofonts option prevents the Tufte-LATEX classes from automatically loading the Palatino and Helvetica typefaces. You should use this option if you wish to load your own fonts. If you're using XATEATEX, this option is implied (i.e., the Palatino and Helvetica fonts aren't loaded if you use X¬IAT_FX).

The nols option inhibits the letterspacing code. The Tufte-LATEX classes try to load the appropriate letterspacing package (either pdfTFX's letterspace package or the soul package). If you're using XAIATEX with fontenc, however, you should configure your own letterspacing.

The notitlepage option causes \maketitle to generate a title

block instead of a title page. The book class defaults to a title page and the handout class defaults to the title block. There is an analogous titlepage option that forces \maketitle to generate a full title page instead of the title block.

The **notoc** option suppresses Tufte-LAT_EX's custom table of contents (TOC) design. The current TOC design only shows unnumbered chapter titles; it doesn't show sections or subsections. The notoc option will revert to LATEX's TOC design.

The nohyper option prevents the hyperref package from being loaded. The default is to load the hyperref package and use the \title and \author contents as metadata for the generated PDF.

Customizing Tufte-L'T_EX

The Tufte-LATEX document classes are designed to closely emulate Tufte's book design by default. However, each document is different and you may encounter situations where the default settings are insufficient. This chapter explores many of the ways you can adjust the Tufte-LATEX document classes to better fit your needs.

File Hooks

If you create many documents using the Tufte-LATEX classes, it's easier to store your customizations in a separate file instead of copying them into the preamble of each document. The Tufte-LATEX classes provide three file hooks: tufte-common-local.tex, tufte-book-local.tex, and tufte-handout-local.tex.

tufte-common-local.tex If this file exists, it will be loaded by all of the Tufte-LATEX document classes just prior to any document-class-specific code. If your customizations or code should be included in both the book and handout classes, use this file hook.

tufte-book-local.tex If this file exists, it will be loaded after all of the common and book-specific code has been read. If your customizations apply only to the book class, use this file hook.

tufte-common-handout.tex If this file exists, it will be loaded after all of the common and handout-specific code has been read. If your customizations apply only to the handout class, use this file hook.

Numbered Section Headings

While Tufte dispenses with numbered headings in his books, if you require them, they can be enabled by changing the value of the secnumdepth counter. From the table below, select the heading level at which numbering should stop and set the secnumdepth counter to that value. For example, if you want parts and chapters numbered, but don't want numbering for sections or subsections, use the command:

\setcounter{secnumdepth}{0}

The default secnumdepth for the Tufte-LATeX document classes is -1.

Heading level	Value
Part (in tufte-book)	-1
Part (in tufte-handout)	0
Chapter (only in tufte-book)	0
Section	1
Subsection	2
Subsubsection	3
Paragraph	4
Subparagraph	5

Table 2: Heading levels used with the secnumdepth counter.

Changing the Paper Size

The Tufte-LATEX classes currently only provide three paper sizes: A4, B5, and Us letter. To specify a different paper size (and/or margins), use the \geometrysetup command in the preamble of your document (or one of the file hooks). The full documentation of the \geometrysetup command may be found in the geometry package documentation.⁷

⁷ Hideo Umeki. The geometry package. http://ctan.org/pkg/geometry, December 2008

Customizing Marginal Material

Marginal material includes sidenotes, citations, margin notes, and captions. Normally, the justification of the marginal material follows the justification of the body text. If you specify the justified document class option, all of the margin material will be fully justified as well. If you don't specify the justified option, then the marginal material will be set ragged right.

You can set the justification of the marginal material separately from the body text using the following document class options: sidenote, marginnote, caption, citation, and marginals. Each option refers to its obviously corresponding marginal material type. The marginals option simultaneously sets the justification on all four marginal material types.

Each of the document class options takes one of five justification types:

justified Fully justifies the text (sets it flush left and right).

raggedleft Sets the text ragged left, regardless of which page it falls on.

raggedright Sets the text ragged right, regardless of which page it falls on.

raggedouter Sets the text ragged left if it falls on the left-hand (verso) page of the spread and otherwise sets it ragged right. This is useful in conjunction with the symmetric document class option.

auto If the justified document class option was specified, then set the text fully justified; otherwise the text is set ragged right. This is the default justification option if one is not explicitly specified.

For example,

```
\documentclass[symmetric,justified,marginals=raggedouter]{tufte-book}
```

will set the body text of the document to be fully justified and all of the margin material (sidenotes, margin notes, captions, and citations) to be flush against the body text with ragged outer edges.

THE FONT AND STYLE of the marginal material may also be modified using the following commands:

```
\strut {\langle font \ commands \rangle}
\strut \
\strut \
\strut \{ \langle font \ commands \rangle \}
```

The \setsidenotefont sets the font and style for sidenotes, the \setcaptionfont for captions, the \setmarginnotefont for margin notes, and the \setcitationfont for citations. The \font commands can contain font size changes (e.g., \footnotesize, \Huge, etc.), font style changes (e.g., \sffamily, \ttfamily, \itshape, etc.), color changes (e.g., \color{blue}), and many other adjustments.

If, for example, you wanted the captions to be set in italic sans serif, you could use:

```
\setcaptionfont{\itshape\sffamily}
```

Compatibility Issues

When switching an existing document from one document class to a Tufte-LATEX document class, a few changes to the document may have to be made.

Converting from article to tufte-handout

The following article class options are unsupported: 10pt, 11pt, 12pt, a5paper, b5paper, executivepaper, legalpaper, landscape, onecolumn, and twocolumn.

The following headings are not supported: \subsubsection and \subparagraph.

Converting from book to tufte-book

The following report class options are unsupported: 10pt, 11pt, 12pt, a5paper, b5paper, executivepaper, legalpaper, landscape, onecolumn, and twocolumn.

The following headings are not supported: \subsubsection and \subparagraph .

Troubleshooting and Support

Tufte-LATEX Website

The website for the Tufte-LATEX packages is located at http://code.google.com/p/tufte-latex/. On our website, you'll find links to our svn repository, mailing lists, bug tracker, and documentation.

Tufte-L'TEX Mailing Lists

There are two mailing lists for the Tufte-LATEX project:

Discussion list The tufte-latex discussion list is for asking questions, getting assistance with problems, and help with troubleshooting. Release announcements are also posted to this list. You can subscribe to the tufte-latex discussion list at http://groups.google.com/group/tufte-latex.

Commits list The tufte-latex-commits list is a read-only mailing list. A message is sent to the list any time the Tufte-LATEX code has been updated. If you'd like to keep up with the latest code developments, you may subscribe to this list. You can subscribe to the tufte-latex-commits mailing list at http://groups.google.com/group/tufte-latex-commits.

Getting Help

If you've encountered a problem with one of the Tufte-LATEX document classes, have a question, or would like to report a bug, please send an email to our mailing list or visit our website.

To help us troubleshoot the problem more quickly, please try to compile your document using the debug class option and send the generated .log file to the mailing list with a brief description of the problem.

Errors, Warnings, and Informational Messages

The following is a list of all of the errors, warnings, and other messages generated by the Tufte-IATEX classes and a brief description of their meanings.

Error: \subparagraph is undefined by this class.

The \subparagraph command is not defined in the Tufte-LATEX document classes. If you'd like to use the \subparagraph command, you'll need to redefine it yourself. See the "Headings" section on page 11 for a description of the heading styles availaboe in the Tufte-LATEX document classes.

Error: \subsubsection is undefined by this class.

The \subsubsection command is not defined in the Tufte-IATEX document classes. If you'd like to use the \subsubsection command, you'll need to redefine it yourself. See the "Headings" section on page 11 for a description of the heading styles availaboe in the Tufte-IATEX document classes.

Error: You may only call \morefloats twice. See the Tufte-LaTeX documentation for other workarounds.

LATEX allocates 18 slots for storing floats. The first time \morefloats is called, it allocates an additional 34 slots. The second time \morefloats is called, it allocates another 26 slots.

The \morefloats command may only be called two times. Calling it a third time will generate this error message. See page 14 for more information.

Warning: Option ' $\langle class\ option \rangle$ ' is not supported -- ignoring option.

This warning appears when you've tried to use *⟨class option⟩* with a Tufte-LATEX document class, but *⟨class option⟩* isn't supported by the Tufte-LATEX document class. In this situation, *⟨class option⟩* is ignored.

Info: The 'symmetric' option implies 'twoside'

You specified the symmetric document class option. This option automatically forces the twoside option as well. See page 17 for more information on the symmetric class option.

Package Dependencies

The following is a list of packages that the Tufte-LATEX document classes rely upon. Packages marked with an asterisk are optional.

- xifthen
- ifpdf*
- ifxetex*
- hyperref
- geometry
- ragged2e
- chngpage *or* changepage
- paralist
- textcase
- soul*
- letterspace*
- setspace

- natbib and bibentry
- optparams
- placeins
- mathpazo*
- helvet*
- fontenc
- beramono*
- fancyhdr
- xcolor
- textcomp
- titlesec
- titletoc

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Edward R. Tufte. *Visual Explanations*. Graphics Press, Cheshire, Connecticut, 1997. ISBN 0-9613921-2-6.

Edward R. Tufte. *The Visual Display of Quantitative Information*. Graphics Press, Cheshire, Connecticut, 2001. ISBN 0-9613921-4-2.

Edward R. Tufte. *Beautiful Evidence*. Graphics Press, LLC, first edition, May 2006. ISBN 0-9613921-7-7.

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