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[Extended Abstract]

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ABSTRACT

This is a test of Altassian's software: SourceTree for Mac OSx.

CCS Concepts

ullet Computing methodologies o Distributed algorithms;

Keywords

ACM proceedings; Complex Event Processing; Event Stream Processing; Apache Storm; Amazon Web Services

INTRODUCTION

The proceedings are the records of a conference. ACM seeks to give these conference by-products a uniform, highquality appearance. To do this, ACM has some rigid requirements for the format of the proceedings documents: there is a specified format (balanced double columns), a specified set of fonts (Arial or Helvetica and Times Roman) in certain specified sizes (for instance, 9 point for body copy), a specified live area (18 \times 23.5 cm [7" \times 9.25"]) centered on the page, specified size of margins (1.9 cm [0.75"]) top, (2.54 cm [1"]) bottom and (1.9 cm [.75"]) left and right; specified column width (8.45 cm [3.33"]) and gutter size (.83 cm [.33"]). The good news is, with only a handful of manual settings¹.

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the LATEX document class file handles all of this for you. The remainder of this document is concerned with showing, in the context of an "actual" document, the LATEX commands specifically available for denoting the structure of a proceedings paper, rather than with giving rigorous descriptions or explanations of such commands.

2. THE BODY OF THE PAPER

Typically, the body of a paper is organized into a hierarchical structure, with numbered or unnumbered headings for sections, subsections, sub-subsections, and even smaller sections. The command \section that precedes this paragraph is part of such a hierarchy. LATEX handles the numbering and placement of these headings for you, when you use the appropriate heading commands around the titles of the headings. If you want a sub-subsection or smaller part to be unnumbered in your output, simply append an asterisk to the command name. Examples of both numbered and unnumbered headings will appear throughout the balance of this sample document. Because the entire article is contained in the **document** environment, you can indicate the start of a new paragraph with a blank line in your input file; that is why this sentence forms a separate paragraph.

Type Changes and Special Characters

We have already seen several typeface changes in this sample. You can indicate italicized words or phrases in your text with the command \textit; emboldening with the command \textbf and typewriter-style (for instance, for computer code) with \texttt. But remember, you do not have to indicate typestyle changes when such changes are part of the structural elements of your article; for instance, the heading of this subsection will be in a sans serif³ typeface,

 $^{^1\}mathrm{Two}$ of these, the $\mbox{\sc humberofauthors}$ and $\mbox{\sc lignau-}$ thor commands, you have already used; another, ancecolumns, will be used in your very last run of LATEX to ensure balanced column heights on the last page.

²This is the second footnote. It starts a series of three footnotes that add nothing informational, but just give an idea of how footnotes work and look. It is a wordy one, just so you see how a longish one plays out.

³A third footnote, here. Let's make this a rather short one to see how it looks.

but that is handled by the document class file. Take care with the use of the curly braces in typeface changes; they mark the beginning and end of the text that is to be in the different typeface. You can use whatever symbols, accented characters, or non-English characters you need anywhere in your document; you can find a complete list of what is available in the LATEX User's Guide [5].

2.2 Math Equations

You may want to display math equations in three distinct styles: inline, numbered or non-numbered display. Each of the three are discussed in the next sections.

2.2.1 Inline (In-text) Equations

A formula that appears in the running text is called an inline or in-text formula. It is produced by the **math** environment, which can be invoked with the usual **begin**. . **\end** construction or with the short form \$. . .\$. You can use any of the symbols and structures, from α to ω , available in LaTeX[5]; this section will simply show a few examples of in-text equations in context. Notice how this equation:

 $\lim_{n\to\infty} x = 0$

, set here in in-line math style, looks slightly different when set in display style. (See next section).

2.2.2 Display Equations

A numbered display equation – one set off by vertical space from the text and centered horizontally – is produced by the **equation** environment. An unnumbered display equation is produced by the **displaymath** environment. Again, in either environment, you can use any of the symbols and structures available in LaTeX; this section will just give a couple of examples of display equations in context. First, consider the equation, shown as an inline equation above:

$$\lim_{n \to \infty} x = 0 \tag{1}$$

Notice how it is formatted somewhat differently in the **displaymath** environment. Now, we'll enter an unnumbered equation:

$$\sum_{i=0}^{\infty} x + 1$$

and follow it with another numbered equation:

$$\sum_{i=0}^{\infty} x_i = \int_0^{\pi+2} f$$
 (2)

just to demonstrate LATEX's able handling of numbering.

2.3 Citations

Citations to articles [1, 3, 2, 4], conference proceedings [3] or books [6, 5] listed in the Bibliography section of your article will occur throughout the text of your article. You should use BibTeX to automatically produce this bibliography; you simply need to insert one of several citation commands with a key of the item cited in the proper location in the .tex file [5]. The key is a short reference you invent to

Table 1: Title goes here

Non-English or Math	Frequency	Comments
Ø	1 in 1,000	For Swedish names
π	1 in 5	Common in math
\$	4 in 5	Used in business
Ψ_1^2	1 in 40,000	Unexplained usage



Figure 1: A sample black and white graphic.

uniquely identify each work; in this sample document, the key is the first author's surname and a word from the title. This identifying key is included with each item in the .bib file for your article. The details of the construction of the .bib file are beyond the scope of this sample document, but more information can be found in the Author's Guide, and exhaustive details in the Later Y User's Guide [5]. This article shows only the plainest form of the citation command, using \cite. This is what is stipulated in the SIGS style specifications. No other citation format is endorsed or supported.

2.4 Tables

To set a wider table, which takes up the whole width of the page's live area, use the environment **table*** to enclose the table's contents and the table caption. As with a single-column table, this wide table will "float" to a location deemed more desirable. Immediately following this sentence is the point at which Table 2 is included in the input file; again, it is instructive to compare the placement of the table here with the table in the printed dvi output of this document.

2.5 Figures

Like tables, figures cannot be split across pages; the best placement for them is typically the top or the bottom of the page nearest their initial cite. To ensure this proper "floating" placement of figures, use the environment figure to enclose the figure and its caption. This sample document contains examples of .eps files to be displayable with LATEX. If you work with pdfLATEX, use files in the .pdf format. Note that most modern TEX system will convert .eps to .pdf for you on the fly. More details on each of these is found in the Author's Guide.

As was the case with tables, you may want a figure that spans two columns. To do this, and still to ensure proper "floating" placement of tables, use the environment figure*

⁴A fourth, and last, footnote.

Table 2: Some Typical Commands

Command	A Number	Comments
\alignauthor	100	Author alignment
\numberofauthors	200	Author enumeration
\table	300	For tables
\table*	400	For wider tables



Figure 2: A sample black and white graphic that has been resized with the includegraphics command.

to enclose the figure and its caption. and don't forget to end the environment with figure*, not figure!

2.6 Theorem-like Constructs

Other common constructs that may occur in your article are the forms for logical constructs like theorems, axioms, corollaries and proofs. There are two forms, one produced by the command \newtheorem and the other by the command \newdef; perhaps the clearest and easiest way to distinguish them is to compare the two in the output of this sample document: This uses the theorem environment, created by the \newtheorem command:

Theorem 1. Let f be continuous on [a,b]. If G is an antiderivative for f on [a,b], then

$$\int_{a}^{b} f(t)dt = G(b) - G(a).$$

The other uses the **definition** environment, created by the **\newdef** command:

Definition 1. If z is irrational, then by e^z we mean the unique number which has logarithm z:

$$\log e^z = z$$

Two lists of constructs that use one of these forms is given in the *Author's Guidelines*. There is one other similar construct environment, which is already set up for you; i.e. you must *not* use a **\newdef** command to create it: the **proof** environment. Here is a example of its use:

PROOF. Suppose on the contrary there exists a real number L such that

$$\lim_{x \to \infty} \frac{f(x)}{g(x)} = L.$$

Then

$$l = \lim_{x \to c} f(x) = \lim_{x \to c} \left[gx \cdot \frac{f(x)}{g(x)} \right] = \lim_{x \to c} g(x) \cdot \lim_{x \to c} \frac{f(x)}{g(x)} = 0 \cdot L = 0,$$

which contradicts our assumption that $l \neq 0$. \square

Complete rules about using these environments and using the two different creation commands are in the *Author's Guide*; please consult it for more detailed instructions. If you need to use another construct, not listed therein, which you want to have the same formatting as the Theorem or the Definition[6] shown above, use the \newtheorem or the \newdef command, respectively, to create it.

A Caveat for the T_EX Expert

Because you have just been given permission to use the \newdef command to create a new form, you might think you can use TEX's \def to create a new command: Please refrain from doing this! Remember that your LATEX source code is primarily intended to create camera-ready copy, but may be converted to other forms – e.g. HTML. If you inadvertently omit some or all of the \defs recompilation will be, to say the least, problematic.

3. CONCLUSIONS

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4. ACKNOWLEDGMENTS

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- M. Bowman, S. K. Debray, and L. L. Peterson. Reasoning about naming systems. ACM Trans. Program. Lang. Syst., 15(5):795–825, November 1993.
- [2] J. Braams. Babel, a multilingual style-option system for use with latex's standard document styles. *TUGboat*, 12(2):291–301, June 1991.
- [3] M. Clark. Post congress tristesse. In TeX90 Conference Proceedings, pages 84–89. TeX Users Group, March 1991.
- [4] M. Herlihy. A methodology for implementing highly concurrent data objects. ACM Trans. Program. Lang. Syst., 15(5):745-770, November 1993.

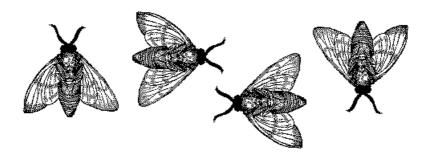


Figure 3: A sample black and white graphic that needs to span two columns of text.



Figure 4: A sample black and white graphic that has been resized with the includegraphics command.

- [5] L. Lamport. LaTeX User's Guide and Document Reference Manual. Addison-Wesley Publishing Company, Reading, Massachusetts, 1986.
- [6] S. Salas and E. Hille. Calculus: One and Several Variable. John Wiley and Sons, New York, 1978.

APPENDIX

A. 1ST APPENDIX

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A.1 Section

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B. 2ND APPENDIX

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