A Larger Example

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Abstract

An example document showing automatic tagging of typical structures found in a LaTeX document, including titles, sections, lists, citations lists and mathematics. A two column layout is used, the tagging enables the reading order to correctly follow the flow of text through the columns.

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1 Introduction

This document shows a typical two-column document incorporating tables, figures and mathematics.

Apart from two commands at the start to enable tagging, and a small amount of additional markup to give alternative texts for graphics inclusion, and to specify the heading rows of tables[1]. The document just uses standard LaTeX markup that would be used in any LaTeX document since the 1980's.

[1]The current tagging markup for tables is temporary and a new interface for tagging tables will be developed.

2 Document structures

2.1 Mathematics

Let p be a prime, then

$$n^p = n \mod p$$

An aligned set of equations:

$$f(x) = \sin x + \cos y \tag{1}$$

$$g(x) = 2\cos x - 3\sin y \tag{2}$$

Matrices.

$$\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} \begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} 1 & 3 \\ 3 & 7 \end{pmatrix}$$

2.2 Lists

Lists often occur in documents

- They may be unordered bullet lists
- Or may be numbered lists.
  1. lists may also be nested in an outer list
  2. items within such a list may be referenced.

Here we reference item 2.

2.3 Figures and Tables

Small images may be shown inline and small tables may be shown within the paragraph:

Example

Name	Value
This	11
That	2

Larger figures are usually placed in a *float* to be positioned at a suitable place to help with column and page breaking.

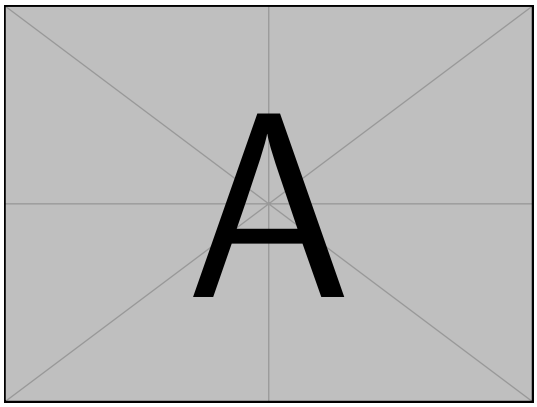

Figure 1: Larger image set as a *float*

2.4 Citations

It is also possible to cite works from a bibTEX database, here we cite [1] and [2] from the `xampl.bib` sample file distributed with bibTEX.

References

[1] L[eslie] A. Aamport. The gnats and gnus document preparation system. *G-Animal's Journal*, 41(7):73+, July 1986. This is a full ARTICLE entry.

[2] Donald E. Knuth. *Fundamental Algorithms*, volume 1 of *The Art of Computer Programming*, section 1.2, pages 10–119. Addison-Wesley, Reading, Massachusetts, second edition, 10 January 1973. This is a full INBOOK entry.