Example document

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Abstract

This document is an example document. Use it by copying sections and altering them!

1 Introduction

This is a main section. We write text in paragraphs with blank lines between them. LaTeX ignores extra spaces between words.

Here we have a second paragraph. 'Cosmovid, Thinkpix and Home Brain Box,' it said, and beeped.

1.1 A subsection

More text. Here are inline equations: $E_i = mc^2$, $a_{12} = bc^{12}$, $\alpha = \sqrt{q}$, $a = \frac{b+d}{c}$, $k = \left(a + \frac{d}{e/f}\right)^{\beta}$, $h = \int_a^b x \, \mathrm{d}x$, $\epsilon = 4.2 \times 10^{42}$ erg and $l = \sin 2x$.

1.1.1 A subsubsection

We write a numbered equation:

$$A = \left[\int_0^\infty (a+b)^{-b+1} \, \mathrm{d}b + \sum_{i=0}^{100} i^2 \right] \text{cm s}^{-1} \tag{1}$$

Unnumbered subsubsection

Even more text. Refer to Equation (1).

Every dirdctory traced back to /

/dev — System devices

/tmp — Temporary files

/bin — Programs needed to boot system

/sbin — Low level programs needed to boot system

/lib — Libraries needed to boot system

/ (root)

Everyone's personal data in /home

/home

Particular user's personal dir.

/home/fred

/home/fred/papers — Dir. in personal dir.

/etc — System configuration files

Normal "user" programs and data

/usr

/usr/bin — Normal "user" programs

/usr/lib — Normal "user" libraries

/usr/local — Things installed by the local administrator

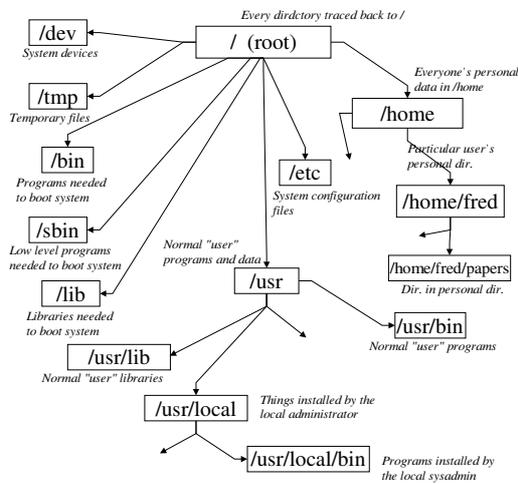/usr/local/bin — Programs installed by the local sysadmin

Figure 1: This is an example figure. We can refer to it via its label.

1.2 Next subsection

Boo! But we can refer to Section 1.1, and it updates automatically if we add more subsections before that.

2 Lists and other things

Another section. Let's write some numbered items:

1. First item

2. Second item

3. And I refer to Item 1.

   (a) Another enumeration inside the previous one.

   (b) Another point

4. One for good luck.

We can instead use bullet points (not used in scientific papers, but in talks):

- First point

- Second point (and a reference to Fig 1).

Heading 1	Heading 2 (cm)
Col 1	Col 2
Row 2	Row 2
$E = mc^2$	$x = \pi^2$
2.012 ± 0.002	3×10^{24}
	right

Table 1: A caption to add to the table. The table can be referred to by using its label.

Another possible thing to do is a verbatim section (which is useful for program code):

```
We can write most characters here and special latex symbols are
ignored (e.g. \emph). and %. Line breaks actually break a line in thi
section.
```

If we wish to quote a sample of text, a quotation block is useful:

> 'Space,' *it says*, 'is big. Really big. You just won't believe how vastly hugely mindbogglingly big it is. I mean you may think it's a long way down to the chemist, but that's just peanuts to space. Listen...' *and so on* — The Hitch Hiker's Guide to the Galaxy, Douglas Adams (1952-2001).

3   Conclusions

We can *emphasise text*, `teletype`, **bolden** and sans-serif. We can 'quote text', "double quote", write symbols &, %, £.

We now refer the reader to Table 1 in this illustrious document.