

Sample L^AT_EX Document

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1 Spaces

It does not matter whether you enter one or several spaces after a word.

An empty line starts a new paragraph.

Forcing a linebreak

Ooga BOOGA

The diacritic \hat{j} vs the \wedge

2 Section

2.1 Subsection

2.1.1 Subsubsection

Cannot go any lower.

unnumbered subsubsection

I have no number!

3 Font Styles

We can change fonts using the following commands, *Emphasized*, **Monospaced**
Font, SMALL CAPITALS, UPPERCASE

4 Font Size

Within the same scope, we can change the font size as follows me is tiny, me is ooga,
smally, normal, OOGA BOOGA, OOGA BUNGA

5 Non-breaking space

We cud use this in math equations.

Compare the two lines below

$$f(x) = x^2 \quad \text{for } x > 0$$

$$f(x) = x^2 \quad \text{for } x > 0$$

6 Line Spacing

Jotham Wong
Jotham

Wong JothamWong

This paragraph has

huge gaps

between lines.

7 Quote-marks

‘quote’ vs “quote”

8 Paragraph Alignment

I am flushed left.

I am flushed right.

Hello I am centered

9 Verbatim

We begin the verbatim environment.

The verbatim environment
 simply reproduces every
character you input,
including all s p a c e s!

10 Code Blocks

Using minted package to write code blocks.

```
# This is python code
def factorial(n):
    return n == 1 ? 1 : n * factorial(n-1)

// This is java code
public int factorial(int n) {
    if (n == 1) {
        return 1;
    } else {
        return n * factorial(n-1);
    }
}
```

Notice the syntax highlighting. (Basically verbatim + syntax)

11 Math fun

Short hand equations:

$$e^{i\pi} + 1 = 5$$

The equivalent with explicit environment command (and numbered equation)

$$e^{i\pi} + 1 = 0 \tag{1}$$

12 Citing stuff

L^AT_EX is a set of macros built upon T_EX[1].

References

- [1] Donald E. Knuth. *The T_EX Book*. Addison-Wesley Professional, 1986.