

# L<sup>A</sup>T<sub>E</sub>Xfor Dummies

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## Abstract

L<sup>A</sup>T<sub>E</sub>Xis fun!

## 1 Introduction

Here is a citation [1, 2].

### 1.1 Funny Fonts

We do **bold** and  $2 + 3 = 5$  numbers.

- We do *italics* and others  $\mathcal{X}$  and non-English symbols.

We can do other fonts. And such as `this`.

#### 1.1.1 Math

Can Word do this:  $2^{2^{2^n}}$ ? Or

$$\sum_{i=0}^n i = \frac{n(n+1)}{2}?$$

Equations:

$$r_i = Br_{i-1} + r_{i-2} \quad i \geq 2 \tag{1}$$

Raw text:

0 1 1 0 0 0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 1 1 1

**Theorem 1** *L<sup>A</sup>T<sub>E</sub>Xmakes numbering easy.*

**Corollary 2** *Very easy!*

$$A = \begin{bmatrix} B & I & 0 & 0 & \dots & 0 & 0 \\ I & B & I & 0 & \dots & 0 & 0 \\ 0 & I & B & I & \dots & 0 & 0 \\ \vdots & \vdots & \vdots & \vdots & \ddots & \vdots & \vdots \\ 0 & 0 & \dots & 0 & I & B & I \\ 0 & 0 & \dots & 0 & 0 & I & B \end{bmatrix}$$

Figure 1: Matrix A

1	1	0	0
1	1	1	0
0	1	1	1
0	0	1	1

Table 1: A  $4 \times 4$  Nullspace Matrix

**Conjecture 1** *Word makes numbering hard!*

Note that I can refer to Theorem 1.

## 2 Figures

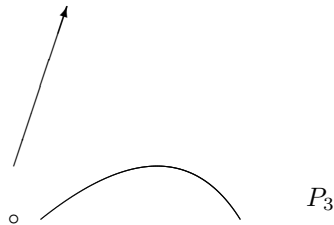


Figure 4. An example of  $T_i^k$

See Sample.tex for more examples (.jpeg, etc.).

## 3 Conclusions

$\LaTeX$  can generate pdf files, slides, html (Web pages), multiple columns, and has templates for books and letters. Plus we can do footnotes <sup>1</sup> and notes and *like this* quotes:

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<sup>1</sup>Like this!

“Not all good things come to an end, only a chosen few.”

## Acknowledgments

Thanks!!

## References

- [1] J. Goldwasser and W. Klostermeyer (1997), Maximization Versions of “Lights Out” Games in Grids and Graphs, *Cong. Num.*, vol. 126, pp. 99-111
- [2] J. Goldwasser, W. Klostermeyer, and H. Ware (2002), Fibonacci Polynomials and Parity Domination in Grid Graphs, *Graphs and Comb.*, vol. 18 (2002), pp. 271-283