

Lecture 2

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1 Verbatim

usepackage command : `\usepackage{verbatim}.`

2 Figure



Figure 1: Logo of BUET



(a) Ubuntu



(b) Kali Linux



(c) Ubuntu

Figure 2: Linux distributions

3 Bibliography

This book [1] is amazing. This book [2] is good too

4 Mathematical Equation

Hello world as u can see this is an inline equation. $test - a + a = 2a$ Lets keep this as it is and leave it be.

Hello world as u can see this is a specialized equation.

$$test - a + a = 2a$$

Lets keep this as it is and leave it be.

4.1 Subscript and SuperScript

$$a^2 \quad a_2 \quad a_{in} \quad a_2$$

4.2 Methods for writing an Equation

NOTE

1. wrap equation with \$\$ for specialized Equation
2. wrap equation with \$ for inline Equation
3. Wrap with `\begin{equation} ... \end{equation}` for generating an automated id number for the equation. We can use `\label` and `\ref` to later cross ref this equation number.

4.3 Math Functions

$$\int_b^a f(x)dx$$

$$\frac{\tau}{\pi}$$

$$\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \quad (1)$$

$$\begin{matrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{matrix} \quad (2)$$

References

- [1] Jia Deng, Wei Dong, Richard Socher, Li-Jia Li, Kai Li, and Li Fei-Fei. Imagenet: A large-scale hierarchical image database. In *2009 IEEE conference on computer vision and pattern recognition*, pages 248–255. Ieee, 2009.
- [2] Donald Ervin Knuth, Tracy Larrabee, Paul M Roberts, and Paul M Roberts. *Mathematical writing*, volume 14. Mathematical Association of America Washington, DC, 1989.