Contents

List of Figures

List of Tables

This is my LaTeX tutorial

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6 September 2020

Hello World

1 Ini Section Pertama

Lorem ipsum bla bla bla

1.1 Ini Subsection Pertama

Lorem ipsum bla bla bla

1.1.1 Ini Subsubsection Pertama

Lorem ipsum bla bla bla

2 Ini Section Kedua

Lorem ipsum bla bla bla

Lorem ipsum bla bla bla

3 Equation

Lorem ipsum x + y = 24 dolor $x + y = 24$ sit amet, consectetur adipiscing elit. Phasellus dignissim luctus nibh ut finibus. Praesent ultricies congue placerat. Suspendisse sagittis augue id est fermentum, in condimentum orci interdum. Vestibulum bibendum auctor neque quis consequat. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia curae; Donec at ex ut nibh interdum mollis mattis vitae nulla. Fusce vel tincidunt ligula. Fusce vehicula enim risus, eu aliquet purus molestie non. Cras gravida bibendum tincidunt. Proin vitae est in mauris finibus bibendum. Nulla ante est, elementum at mauris sed, imperdiet pretium arcu. Fusce feugiat, massa non facilisis venenatis, mauris urna pellentesque velit, nec tempus tellus eros at elit. Donec dictum orci eu purus commodo eleifend.

$$2x + y = 12 \tag{1}$$

$$3a + 2c = 12$$

$$2s + 3d = 25$$

$$z - 8a = 28$$

$$a + b = c$$

$$3a = 20$$

$$a + b = c$$

$$3a = 20$$

4 Symbol

4.1 Text Formatting

<small>Hello</small> Hello Hello Hello Hello Hello

World *World* `World` <u>World</u> World

LaTeX

Inline $x + y = 12$

$$x - y = 0 \tag{2}$$

$$a + b = c \tag{3}$$

$$a + c = 12$$

$2Mangga + 3Apel = Rp15.000$

2 Mangga $+ 3$ Apel $=$ Rp.15.000

$Aa123$ Aa123 *Aa123* Aa123

4.2 Math Symbol

Accent x, x^2, x_n, $\bar{x}$, $\hat{x}$, $\vec{x}$, $\dot{x}$, $\ddot{x}$

Operator $+ \ - \ \pm \ * \ * \ \times \ \cdot \ / \ \div \ \frac{a}{b} \ {}^a/_b$

Relation $= \equiv \sim \simeq \approx > < \geq \leq \neq \cup \cap \in \notin \forall \exists$

Greek $\alpha \ \beta \ \gamma \ \Gamma \ \delta \ \Delta \ \epsilon \ \zeta \ \eta \ \theta \ \Theta \ \lambda \ \mu \ \pi \ \rho$

Arrows $\leftarrow \Leftarrow \longleftarrow \rightarrow \Rightarrow \longrightarrow \leftrightarrow \Leftrightarrow \longleftrightarrow \uparrow \Uparrow \downarrow \Downarrow$

Others $\infty \ \nabla \ \angle \ \angle A \ \diamondsuit \ \heartsuit \ \clubsuit \ \spadesuit$

Matrix

$$\begin{matrix} 1 & 0 \\ 0 & 1 \end{matrix}$$

$$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

$$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$$

$$\begin{vmatrix} 1 & 0 \\ 0 & 1 \end{vmatrix}$$

$$\det \begin{vmatrix} 1 & 0 \\ 0 & 1 \end{vmatrix}$$

5 Functions

Roots $\sqrt{x^2}$ $\sqrt[3]{x^3}$

   Trigonometri $\sin(\theta)$ $\cos(\theta)$ $\tan(\theta)$ $\sec(\theta)$ $\csc(\theta)$ $\cot(\theta)$

   Limit $\lim e^{-x}$ $\lim\limits_{x\to\infty} e^{-x}$

   Logarithmic $\log x$ $^{10}\log x$ $^{2}\log 4$ $^{e}\log x$ $\ln x$

   Sums $\sum x$ $\sum_{i=1}^{10} t_i$

   Derivative $\frac{dx}{dt}$ $\frac{\partial x}{\partial t}$

   Integral $\int f(x)dx$ $\int_a^b f(x)dx$ $\iint f(x,y)dxdy$ $\iiint f(x,y,z)dxdydz$

6 List

6.1 Unordered List

+ Apel

    * Belimbing Wuluh

    − Beri

    − Bengkoang

× Ceri

6.2 Ordered List

1. Andi

    α Budi

    β Bambang

    γ Bebi

2. Caca

7 Images

Figure 1: Captain America

Gambar 1 menampilkan foto Captain America.
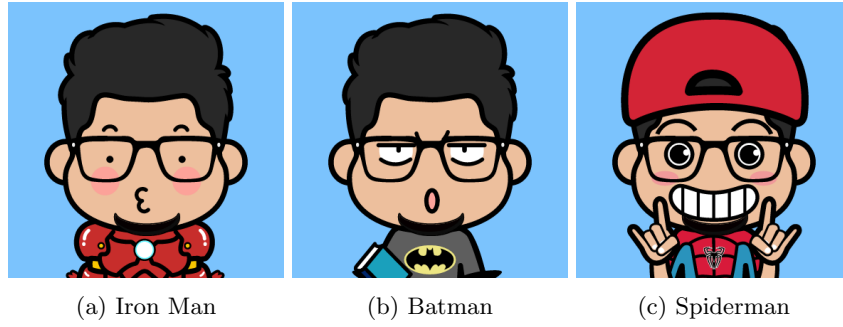

(a) Iron Man   (b) Batman

Figure 2: Multi Figure

| (a) Iron Man | (b) Batman | (c) Spiderman |

Figure 3: Multi Figure 3

8 Tables

No	Nama	Usia
1	Andi	21
2	Budi	22
3	Caca	23

Table 1: Ini tabelku

Sesuai pada tabel 1, maka diketahui usia Andi adalah 21.

No	Nama	Usia
1	Andi	21
2	Budi	22
3	Caca	23

Table 2: Ini tabelku

No	Nama	Usia
1	Andi	21
2	Budi	22
3	Caca	23

Table 3: Ini tabelku

Matematika itu asyik [1] tes 1 2 3 [2] Halo halo Bandung [3]

References

[1] A. Susilo, "Bagaimana cara mengolah data secara benar," *Jurnal Statistika Vol.IX*, 2019.

[2] B. Sudarsono, *Memahami Quantum Mekanika Secara Konseptual.* Penerbit Matematikasyik, 2020.

[3] C. Salsabila, *Kiat Sukses Lulus CPNS*, pp. 67–69. 2020.