My LaTeX Document

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1 Hello World

Section name is Hello World

1.1 How Hello World is bad

hello my name is abhiroop mukherjee

1.1.1 subsubsection

hello how are you

paragraph my name is not abhiroop mukherjee

 ${\bf subparagraph} \quad {\rm fsf}$

2 Maths

2.1 Inline Method of Maths

This is the way to do maths $f(x) = 100x^2$ in line

2.2 Dedicated Equation Environment

$$f(x) = 100x^2$$

2.3 Alignment

see the '=' is aligned

$$1+2=3$$

$$1=3-2$$

$$0=3-2-1$$

$$1+2-3=0$$

2.4 Fractions, Integral Sign, and more

$$f(x) = 100x^2 \tag{1}$$

$$f'(x) = \frac{d(100x^2)}{dx}$$

$$= 100 \frac{d(x^2)}{dx}$$

$$= 100.(2x)$$

$$f'(x) = 200x$$
(2)

$$f(x) = \int_{x}^{0} f'(x)dx$$

$$= \int_{x}^{0} 200xdx$$

$$= 200 \int_{x}^{0} xdx$$

$$= 200 \left[\frac{x^{2}}{2}\right]_{0}^{x}$$

$$= 200 \cdot \frac{x^{2}}{2}$$

$$= 100x^{2}$$
(3)

$$g(x) = 10\sqrt{x} \tag{4}$$

$$g'(x) = \frac{d}{dx} \left(10\sqrt{x} \right) \tag{5}$$

$$=10\left(\frac{1}{2\sqrt{x}}\right)\tag{6}$$

$$g(x) = 10\sqrt{x}$$

$$g'(x) = \frac{d}{dx} (10\sqrt{x})$$

$$= 10 \left(\frac{1}{2\sqrt{x}}\right)$$

$$g'(x) = \frac{5}{\sqrt{x}}$$
(5)
$$(6)$$

Matrices 2.5

$$\begin{array}{ccc} \text{Sample Matrix} \\ 1 & 0 \\ 0 & 1 \\ \end{array} \begin{bmatrix} 1 & 0 \\ 0 & 1 \\ \end{bmatrix}$$

3 Images

3.1 Image positioning

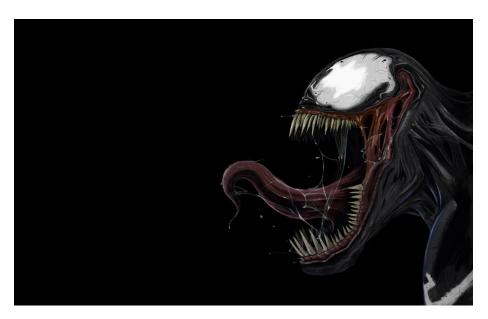


Figure 1: Image of venom

3.2 Multiple Images

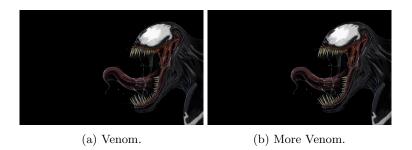


Figure 2: The same Venom. Two times.

More Position Formatting in Images 3.3

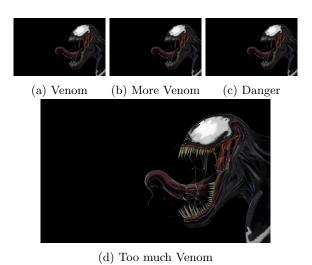


Figure 3: Venom in Various Sizes

Table Of Contents

Images and Tables in Table Of Contents

Commented due to numbering problem

5 Bibliography and Citations

commented as doesn't works well with biblatex

Footnote References 5.1

Random Citations¹ embedded in text

6 **Footnotes**

This is some sample text 2 I'm Referring to footnote 2.

¹R. J. Green, U. P. Fred, and W. P. Norbert. "Things that Go Bump in the Night". In: $\begin{array}{c} \textit{Psych. Today 46 (1900), pp. 345-678.} \\ ^{2}\textit{Hello Footnote} \end{array}$