

# Latex Tutorial

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2021-01-10

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# 1 Structure

Hello World!

## 1.1 Subsection

This is a subsection

### 1.1.1 Subsubsection

this is a subsubsection

**Paragraph** Some paragraph text

**Subparagraph** More subparagraph text .

## 2 Section 2

### 2.1 Math

$$f(x) = x^2 \quad (1)$$

$$\dot{x} = -x + 2x$$

$$f(x) = x^2$$
$$\dot{x} = -x + 2x$$

$$f(x) = x^2$$
$$g(x) = \frac{1}{\sqrt{x}}$$
$$h(x) = \int_b^a \frac{1}{3}x^3 dx$$
$$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}^T = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

This formula  $f(x) = x^2$  is an example of inline math

### 2.2 Figure

Figure 1 shows the beauty of Porcupine mountain

### 2.3 Bibliography

The book [1], software [2], inbook [3], and [4] are used for test in style of IEEEtr

### 2.4 Footnotes

This is an example of footnote text <sup>1</sup>.

Here is the example of referring footnote 1

### 2.5 Tables

1 is an example of table

2 is an example of long table

---

<sup>1</sup> Hello footnote



Figure 1: Porcupine.



(a) left porcupine.

(b) right porcupin.

Figure 2: The same porcupine. Two times.

Table 1: Table Example

<b>Value 1</b>	<b>value 2</b>	<b>Value 3</b>
$\alpha$	$\beta$	$\gamma$
1	1110.10 11.10	a a
2	4.45	b
3	456.24	c
	4	d

Table 2: Multipage table.

## 2.6 Graphics

Figure 3 is a example using package tikz

## 2.7 HyperLink

This is google link: Google  
Embed a bare URL [www.google.com](http://www.google.com)

## 2.8 List

Will introduce the unordered list first

- this is unordered list
  - environment **itemize**
  - \* asterisk

Ordered list is in **enumerate**

1. B

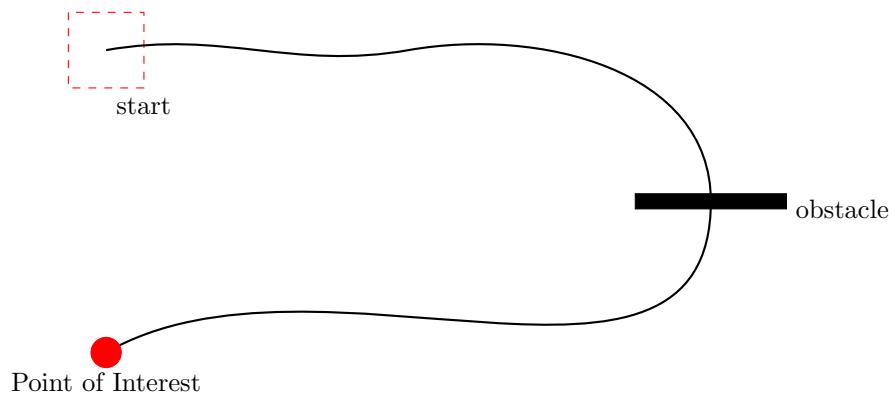


Figure 3: Example graphic made with tikz

2. A

3. C

Following is nested list

1. One

(a) Two

(b) Three

(c) Four

2. Five

3. Six

## References

- [1] Bear5, *The Book without Title*. Future Publisher, 2100.
- [2] Bear5, “Software without title,” 2100.
- [3] Bear5, *The Book without Title*, pp. 100–200. Future Publisher, 2100.
- [4] Bear5, “Article without title,” *Journal*, 2100.