



DONG-EUI UNIVERSITY

Lorem Ipsum

subject

전공	major
이름	name
학번	id
제출	2021-03-07

Abstract

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1 Heading on level 0 (chapter)

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1.1 Heading on level 1 (section)

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1.1.1 Heading on level 2 (subsection)

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1.1.1.1 Heading on level 3 (subsubsection)

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Heading on level 4 (paragraph) Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

1.2 Lists

1.2.1 Example for list (itemize)

- First itemtext
- Second itemtext
- Last itemtext
- First itemtext
- Second itemtext

1.2.1.1 Example for list (4*itemize)

- First itemtext
 - First itemtext
 - First itemtext
 - Second itemtext
 - Last itemtext
- First itemtext

- Second itemtext

1.2.2 Example for list (enumerate)

1. First itemtext
2. Second itemtext
3. Last itemtext
4. First itemtext
5. Second itemtext

1.2.2.1 Example for list (4*enumerate)

1. First itemtext
 - a) First itemtext
 - i. First itemtext
 - A. First itemtext
 - B. Second itemtext
 - ii. Last itemtext
 - b) First itemtext
2. Second itemtext

1.2.3 Example for list (description)

First itemtext

Second itemtext

Last itemtext

First itemtext

Second itemtext

1.2.3.1 Example for list (4*description)

First itemtext

First itemtext

First itemtext

First itemtext

Second itemtext

Last itemtext

First itemtext

Second itemtext

2 chapter

2.1 section

2.1.1 subsection

2.1.1.1 subsubsection

paragraph

subparagraph

2.2 Font

Command	Environment	Output
<code>\textrm{}</code>	<code>\rmfamily</code>	roman
<code>\textsf{}</code>	<code>\sffamily</code>	sans serif
<code>\texttt{}</code>	<code>\ttfamily</code>	typewriter
<code>\textmd{}</code>	<code>\mdseries</code>	medium
<code>\textbf{}</code>	<code>\bfseries</code>	bold
<code>\textup{}</code>	<code>\upshape</code>	upright
<code>\textit{}</code>	<code>\itshape</code>	italic
<code>\textsl{}</code>	<code>\slshape</code>	slanted
<code>\textsc{}</code>	<code>\scshape</code>	small caps
<code>\emph{}</code>	<code>\em</code>	emphasized
<code>\textnormal{}</code>	<code>\normalfont</code>	normal

Command	Output
<code>\tiny</code>	tiny
<code>\scriptsize</code>	scriptsize
<code>\footnotesize</code>	footnotesize
<code>\small</code>	small
<code>\normalsize</code>	normalsize
<code>\large</code>	large
<code>\Large</code>	Large
<code>\LARGE</code>	LARGE
<code>\huge</code>	huge
<code>\Huge</code>	Huge

2.3 Text

'single quote' "double quote"

noindent

parindent

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Lorem ipsum

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$$y = Wx + b \quad (2.1)$$

verb

verbatim

Figure 2.1은 7 page

가 가, 를 을, 과 와, 로 로, 는 은, 이라 라

footnote¹

[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14]

KTUG

Ultra Violet Scuba Blue

2.4 Alignment

flushleft

center

flushright

¹ L^AT_EX 2_ε

2.5 List

2.5.1 itemize

- 1
- 2
- 3

2.5.1.1 4*itemize

- First Level
 - Second Level
 - Third Level
 - Fourth Level

2.5.2 enumerate

1. 1
2. 2
3. 3

2.5.2.1 4*enumerate

1. First level item
2. First level item
 - a) Second level item
 - b) Second level item
 - i. Third level item
 - ii. Third level item
 - A. Fourth level item
 - B. Fourth level item

1. The labels consists of sequential numbers.
 - The individual entries are indicated with a black dot, a so-called bullet.
 - The text in the entries may be of any length.
2. The numbers starts at 1 with every call to the enumerate environment.

2.5.3 decription

- a 1
- b 2
- c 3

2.6 Figures



Figure 2.1: figure

2.7 Tables

cell cell cell
cell cell cell
cell cell cell

cell1	cell2	cell3
cell4	cell5	cell6
cell7	cell8	cell9

col1	col2	col3
cell1	cell2	cell3
cell4	cell5	cell6
cell7	cell8	cell9

Table 2.1: table

2.8 Code

```
1 import numpy as np
2
3 def incmatrix(genl1,genl2):
4     m = len(genl1)
5     n = len(genl2)
6     M = None #to become the incidence matrix
7     VT = np.zeros((n*m,1), int) #dummy variable
```

```

8
9     #compute the bitwise xor matrix
10    M1 = bitxormatrix(genl1)
11    M2 = np.triu(bitxormatrix(genl2),1)
12
13    for i in range(m-1):
14        for j in range(i+1, m):
15            [r,c] = np.where(M2 == M1[i,j])
16            for k in range(len(r)):
17                VT[(i)*n + r[k]] = 1;
18                VT[(i)*n + c[k]] = 1;
19                VT[(j)*n + r[k]] = 1;
20                VT[(j)*n + c[k]] = 1;
21
22            if M is None:
23                M = np.copy(VT)
24            else:
25                M = np.concatenate((M, VT), 1)
26
27            VT = np.zeros((n*m,1), int)
28
29    return M

```

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