

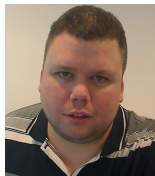
Bachelor Project

Copenhagen Business Academy

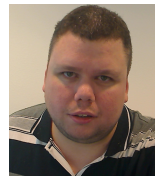


Vejledernavn (vejleder)

IT'S NOT
A BUG
== IT'S A ==
Feature
=====



Name
email@email.dk



Name
email@email.dk

Marts 2021

Indhold

I	First Part of this document	3
1	Packages and styles	4
1.1	Packages	4
1.2	Styles	4
2	Danish characters	6
3	Graphics	7
3.1	Image caption	7
3.1.1	Caption over image	7
3.1.2	Caption under image	7
3.2	Image Label	8
3.3	Centering	8
3.4	Two images next to each other	8
4	References To Images	9
4.1	Reference to image	9
4.2	Reference to page containing the image	9
5	Section, subsection, subsubsection, paragraph, subparagraph	10
5.1	Numbered section	10
5.1.1	Subsection	10
6	Lists	11
6.1	Bullet points	11
6.2	Alternative bullet symbols	11
6.3	Nested Lists	11
6.4	Enumerated lists - Roman numbers and letters	12
7	Table with multiple columns	13
7.1	Simple table	13
7.2	Various horizontal alignments in columns (left, right, centered) .	13
7.3	Cell spanning multiple columns	13
7.4	Table description and label	13
7.5	Reference to table	14

8	Code listing	15
8.1	With emphasized key words in your favorite programming language	15
9	Math equations	17
9.1	Inline equations (in text)	17
9.2	Display equations (on separate line)	17
9.3	Fractions, summations, products, roots, powers	17
9.3.1	Fractions	17
9.3.2	Summations	17
9.3.3	Products	17
9.3.4	Roots	18
9.3.5	Powers	18
10	Bibliography with book, article and internet link	19
10.1	Book	19
10.2	Article	19
10.3	Link	19
11	Todo notes of own choice	20
	Litteratur	21

Del I

First Part of this document

Kapitel 1

Packages and styles

1.1 Packages

```
DANISH CHARACTERS = \usepackage[utf8]{inputenc}
DANISH LANGUAGE = \usepackage[danish]{babel}
GRAPHICS = \usepackage{graphicx}
GRAPHICS PATH = \graphicspath{ {./images/} }
HYPERLINKS = \usepackage{hyperref}
TABLES = \usepackage{tabularx}
COLOR = \usepackage{color}
CODE LISTNING = \usepackage{listings}
TODO NOTES = \usepackage{todonotes}
CHANGE TO REFERENCES FROM BIBLIOGRAPHY = \usepackage[nottoc,notlof,notlot]{tocbibind}
CHANGE TO REFERENCES FROM BIBLIOGRAPHY = \renewcommand\bibname{References}
HEADER = \usepackage{fancyhdr}
NUMBER OF LASTPAGE = \usepackage{lastpage}
HEADER HEIGHT = \setlength{\headheight}{25pt}
```

1.2 Styles

```
HEADERS ON NORMAL PAGES
\pagestyle{fancy}{
  \fancyhf{}
  \chead{\leftmark}
  \cfoot{\thepage\ of \pageref{LastPage}}
  \renewcommand{\headrulewidth}{0.4pt}
  \renewcommand{\footrulewidth}{0.4pt}
}
HEADERS ON CHAPTER AND SPECIAL PAGES
\fancypagestyle{plain}{
```

```
\fancyhf{}
\chead{\leftmark}
\cfoot{\thepage\ of \pageref{LastPage}}
\renewcommand{\headrulewidth}{0.4pt}
\renewcommand{\footrulewidth}{0.4pt}
}
```

Kapitel 2

Danish characters

æ
ø
å
Æ
Ø
Å
Brød
Slå
Æbler

Kapitel 3

Graphics

https://www.overleaf.com/learn/latex/Captioning_Figures

3.1 Image caption

3.1.1 Caption over image

Figur 3.1: Caption over image

IT'S NOT
A BUG
== IT'S A ==
Feature
=====

3.1.2 Caption under image

IT'S NOT
A BUG
== IT'S A ==
Feature
=====

Figur 3.2: Caption under image

3.2 Image Label

`\label{fig:centering}` --> Det som står efter "fig:" er referencen på billedet - det

EKSEMPEL:

```
\begin{figure}[ht]
  \centering
  \includegraphics[width=0.25\textwidth]{coverpage/itisnotabugitisafeature.jpg}
  \caption{Centering}
  \label{fig:centering}
\end{figure}
```

3.3 Centering

`\centering` --> Skrives øverst når der indsættes billede.

EKSEMPEL:

```
\begin{figure}[ht]
  \centering
  \includegraphics[width=0.25\textwidth]{coverpage/itisnotabugitisafeature.jpg}
  \caption{Centering}
  \label{fig:centering}
\end{figure}
```

3.4 Two images next to each other



Figur 3.3: Image 1



Figur 3.4: Image 2

Kapitel 4

References To Images

https://www.overleaf.com/learn/latex/Referencing_Figures

4.1 Reference to image

Caption over - Billede nummer 3.1.
Caption under - Billede nummer 3.2.
Image 1 - Billede nummer 3.3.
Image 2 - Billede nummer 3.4.

4.2 Reference to page containing the image

Caption over - Side nummer 7.
Caption under - Side nummer 7.
Image 1 - Side nummer 8.
Image 2 - Side nummer 8.

Kapitel 5

Section, subsection, subsubsection, paragraph, subparagraph

https://www.overleaf.com/learn/latex/sections_and_chapters
https://www.overleaf.com/learn/latex/paragraph_formatting

5.1 Numbered section

Table of contents - YES

Non-numbered section

Table of contents - NO

5.1.1 Subsection

Table of contents - YES

Subsubsection

Table of contents - NO

paragraph paragraph

subparagraph subparagraph

Kapitel 6

Lists

<https://www.overleaf.com/learn/latex/lists>

6.1 Bullet points

- Test1
- Test2

6.2 Alternative bullet symbols

- Test1
- Test2
- * Test1
- * Test2
- . Test1
- . Test2

6.3 Nested Lists

1. Top
 - Nested1
 - Nested2
2. Top

6.4 Enumerated lists - Roman numbers and letters

1. Enumerated
2. Enumerated
 - (e) Letter
 - (f) Letter
 - i. Roman numbers
 - ii. Roman numbers
 - A. Letters
 - B. Letters

Kapitel 7

Table with multiple columns

<https://www.overleaf.com/learn/latex/tables>

7.1 Simple table

Text1	Text2	Text3
Text1	Text2	Text3
Text1	Text2	Text3

7.2 Various horizontal alignments in columns (left, right, centered)

Text1	Text2	Text3
Text1	Text2	Text3
Text1	Text2	Text3
Text1	Text2	Text3

7.3 Cell spanning multiple columns

Text1	Text2	Text3
Text1	Text2	Text3
Cell spanning text		

7.4 Table description and label

Table description

Text1	Text2	Text3
Text1	Text2	Text3
Cell spanning text		

Tabel 7.1: Table caption

7.5 Reference to table

Table 7.1 is on page 14

Kapitel 8

Code listing

https://www.overleaf.com/learn/latex/code_listing

8.1 With emphasized key words in your favorite programming language

```
1      private static class Person
2      {
3          //Comment
4          private final String email;
5          private final String name;
6
7          /**
8          JavaDoc1
9          JavaDoc2
10         */
11         public Person(String email, String name) {
12             this.email = email;
13             this.name = name;
14         }
15
16         public String getEmail() {
17             return email;
18         }
19
20         public String getName() {
21             return name;
22         }
23
24         @Override
```



```
25     public boolean equals(Object o) {
26         if (this == o) return true;
27         if (o == null || getClass() != o.getClass()) return false;
28
29         Person person = (Person) o;
30
31         if(!email.equals(person.email)) return false;
32         return name.equals(person.name);
33     }
34
35     @Override
36     public int hashCode() {
37         int result = email.hashCode();
38         result = 31 * result + name.hashCode();
39         return result;
40     }
41
42     @Override
43     public String toString() {
44         return "Person{" +
45             "email='" + email + '\',' +
46             ", name='" + name + '\',' +
47             '}';
48     }
49 }
```

Kapitel 9

Math equations

https://www.overleaf.com/learn/latex/mathematical_expressions

9.1 Inline equations (in text)

In physics, the mass-energy equivalence is stated by the equation $E = mc^2$, discovered in 1905 by Albert Einstein.

9.2 Display equations (on separate line)

$$E = mc^2 \tag{9.1}$$

9.3 Fractions, summations, products, roots, powers

9.3.1 Fractions

$$\frac{1}{2}$$

9.3.2 Summations

$$\sum$$

9.3.3 Products

$$\prod$$

9.3.4 Roots

This is a simple math expression $\sqrt{x^2 + 1}$ inside text. And this is also the same: $\sqrt{x^2 + 1}$ but by using another command.

This is a simple math expression without numbering

$$\sqrt{x^2 + 1}$$

separated from text.

9.3.5 Powers

In physics, the mass-energy equivalence is stated by the equation $E = mc^2$, discovered in 1905 by Albert Einstein.

$$E = mc^2$$

Kapitel 10

Bibliography with book, article and internet link

`https://www.overleaf.com/learn/latex/bibliography_management_with_bibtex`

10.1 Book

Text about book.[1]

10.2 Article

Text about article.[2]

10.3 Link

Text about link.[3]

Kapitel 11

Todo notes of own choice

Text test test test test test.

TODO new
text

Litteratur

- [1] Michel Goossens, Frank Mittelbach, and Alexander Samarin. *The L^AT_EX Companion*. Addison-Wesley, Reading, Massachusetts, 1993.
- [2] Albert Einstein. Zur Elektrodynamik bewegter Körper. (German) [On the electrodynamics of moving bodies]. *Annalen der Physik*, 322(10):891–921, 1905.
- [3] Overleaf. Hyperlinks.