

Assignment 2 UFO
L^AT_EX
Task 2 - Bachelor Template

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07-03-2021

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<i>(✓ Table of contents)</i>	

1 Danish characters: æ, ø, å

Test case: Rød grød med fløde

Test case 2: RØD GRØD MED FLØDE

(✓ Danish characters)

2 Graphics

2.1 Caption over image

Figure 1: *(✓ Caption above)*



2.2 Caption under image



Figure 2: *(✓ Caption under)*

2.3 With label



Figure 3: (✓ *With label*) (labelcat)

Here [3] is a direct reference to the above cat, aptly named *labelcat*.

2.4 Centered



Figure 4: (✓ *Centered image*) (wide cat)

2.5 Two images next to each other



Figure 5: Cat one



Figure 6: Cat two

(✓ Two images next to each other)

3 Reference to image

Here is a reference to the centered cat: 4

(✓ Image reference)

4 Reference to page containing the image

Here is a page reference to the centered cat: 2

(see figure 4 on page 2)

(✓ Image page reference)

5 Section, subsection, subsection, paragraph, subparagraph

Section text

(✓ Section)

5.1 Subsection

Subsection text

(✓ Subsection)

5.1.1 Subsubsection

Subsubsection text
(✓ *Subsubsection*)

Paragraph Paragraph text
(✓ *Paragraph*)

Subparagraph Subparagraph text
(✓ *Subparagraph*)

5.2 Numbered section

Numbered section text
(✓ *Numbered section*)

Non-numbered section

Non-numbered section text
(✓ *Non-numbered section*)

6 Lists

6.1 Bullet points

- Bullet point one
- Bullet point two
- Bullet point three

(✓ *Bullet points*)

6.2 Alternative bullet symbols

- Default bullet point
- Black square for second entry
- Square for third entry
- Dash for fourth entry

(✓ *Alternative bullet symbols*)

6.3 Enumerated lists

1. Enumerated entry one
2. Enumerated entry two
3. Enumerated entry three

(✓ Enumerated lists)

6.3.1 Alternatively numbered lists

- I (modified) Enumerated entry one
- II (modified) Enumerated entry two
- III (modified) Enumerated entry three

(✓ Alternatively numbered lists)

7 Table

7.1 Various horizontal alignments in columns (l, r, c)

Left	Right	Center
1	1110.1	a
2	10.1	b
3	23.113231	c

(✓ Various horizontal alignments)

7.2 Cell spanning multiple columns

Left	Right	Center
multicolumn		a
2	10.1	b
3	23.113231	c
4	25.113231	d

(✓ Cell spanning multiple columns)

7.3 Vertical alignment in multi-line cells

No solution

7.4 Table description and label

Table 1: Multirow and -column table.

Value 1	Value 2	Value 3
α	β	γ
1234		a
		b
3	23.113231	c
4	25.113231	d

(✓ Table description and label)

7.5 Reference to table

See table 1 on page 6.

(✓ Reference to table)

8 Code

8.1 Syntax highlighting

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Hello</title>
5   </head>
6   <body>Hello World</body>
7 </html>
```

9 Math equations

9.1 Inline equations

The well known Pythagorean theorem $x^2 + y^2 = z^2$ was proved to be invalid for other exponents. Meaning the next equation has no integer solutions:

(✓ Inline equation)

9.2 Equation (seperate line)

Text before

$$x^n + y^n = z^n$$

Text after

(✓ *Equation on separate line*)

9.3 Fractions, summations, products, roots, powers

Fractions can be used alongside the text, for example $\frac{1}{2}$, and in a mathematical display style like the one below:

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

(✓ *Fractions*)

Summations can be used alongside the text, for example $\sum_{n=1}^{\infty} 2^{-n} = 1$ inside text, and in a mathematical display style like the one below:

$$\sum_{n=1}^{\infty} 2^{-n} = 1$$

(✓ *Summations*)

Products can be used alongside the text, for example $\prod_{i=a}^b f(i)$ inside text, and in a mathematical display style like the one below:

$$\prod_{i=a}^b f(i)$$

(✓ *Products*)

Roots can be used alongside the text, for example $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ inside text, and in a mathematical display style like the one below:

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

(✓ *Roots*)

Exponents can be used alongside the text, for example 2^2 inside text, and in a mathematical display style like the one below:

$$2^2$$

(✓ *Exponents*)

10 Bibliography with book, article and internet link

Book: [1]

(✓ *Book citation*)

Article: [2]
(✓ *Article citation*)
Internet: [3]
(✓ *Internet citation*)

References

- [1] George D. Greenwade. *The Comprehensive Tex Archive Network (CTAN)*. yeet, 1993.
- [2] Rabbert Klein. Black holes and their relation to hiding eggs. *Theoretical Easter Physics*, 2010. (to appear).
- [3] test. Bibtex documentation. https://en.wikibooks.org/wiki/LaTeX/Bibliography_Management#BibTeX. Accessed: 2021-03-10.

11 Todo notes of own choice

- ☒ Title page without page number
- ☒ Table of contents
- ☒ Danish characters
- ☒ Image
- ☒ Caption over image
- ☒ Caption under image
- ☒ Image Label
- ☒ Centering
- ☒ Two images next to each other
- ☒ Reference to image
- ☒ Reference to page containing the image
- ☒ Section, subsection, subsubsection, paragraph, subparagraph
- ☒ Numbered section
- ☒ Non-numbered section
- ☒ Bullet point List
- ☒ Alternative bullet symbols List
- ☒ Enumerated Lists
- ☒ Alternatively numbered lists (roman numerals, letters)
- ☒ Table with multiple columns
- ☒ Various horizontal alignments in columns (left, right, centered)
- ☒ Cell spanning multiple columns
- ☒ Vertical alignment in multi-line cells
- ☒ Table description and label
- ☒ Reference to table
- ☒ Code listing
- ☒ Code with emphasized key words in your favorite programming language
- ☒ Math equations
- ☒ Inline equations (in text)

- ✓ Display equations (on separate line)
- ✓ Fractions, summations, products, roots, powers
- ✓ Bibliography with book, article and internet link
- ✓ Todo notes of own choice