MASTER THESIS

INTELLIGENT SYSTEMS

A TRULY MAGNIFICENT DEMO OF THE LaTeX SMART THESIS TEMPLATE WITH RESPECT TO LONG TITLES AND INCREDIBLY FASCINATING BLINDTEXT

JAN PHILIP GÖPFERT,
ANDREAS STÖCKEL

University of GNU,
Faculty of Templates,
TeX Group

SUPERVISED BY
PROF. DR.-ING. JANE DOE,
M.SC. JOHN DOE

The secret of getting ahead is getting started.

— MARK TWAIN

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A MULTITUDE OF TESTS

Science is what we understand well enough to explain to a computer. Art is everything else we do.

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

1.1 SOME MATH

Here follows some tests for typesetting math. Note how we use the `marginnote` command to add some pretty notes which appear in the margin. This is quite nice, as it allows a more narrow width of the text body without the page looking too sparse[1]. Here comes our first equation

This formula is also known as Pythagorean Theorem, albeit it is usually written with the variables a, b, and c.

$$z^2 = x^2 + y^2 \tag{1.1}$$
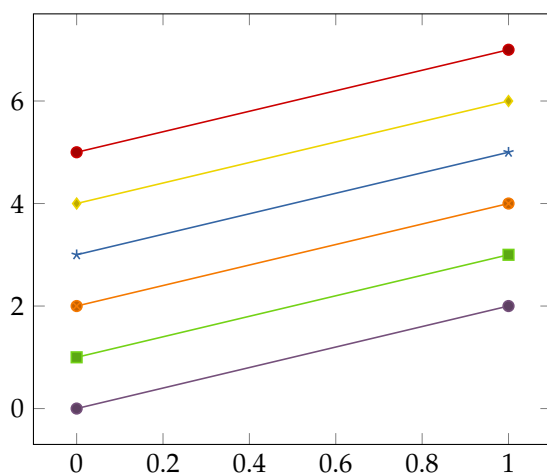
$$z = \sqrt{x^2 + y^2}. \tag{1.2}$$

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1 This is a footnote

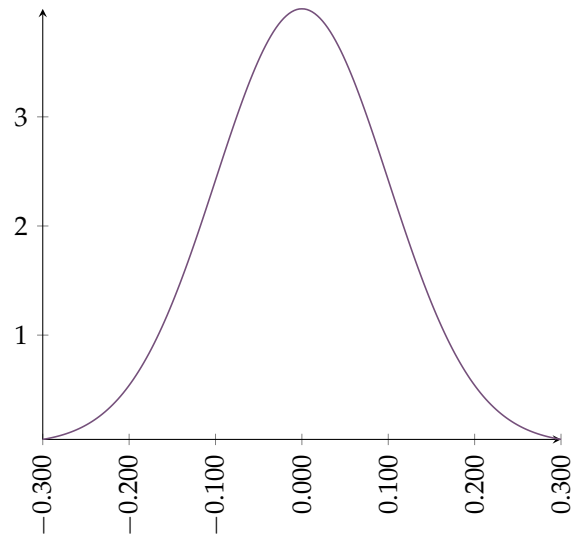*Figure 1.1:* Just a fancy test for auto-coloring of graphs

Figure 1.2: Gaussian distribution. This plot shows a guassian distribution with mean $\mu = 0$ and standard deviation $\sigma = 0.1$. As clearly visible, the value of the distribution never reaches zero.

Did you know? The discrete fourier transformation shown in equation 1.3 is the backbone of the modern information-society.

And here comes some more math, this time a discrete Fourier transformation (DFT) which is a little bit more sophisticated than the last example[2]:

$$f_m = \sum_{k=0}^{2n-1} x_k \, e^{-\frac{2\pi i}{2n} mk} \qquad m = 0, \ldots, 2n-1 \, . \tag{1.3}$$

For words of science, see [Bot+10]. Unfortunately, that book has nothing about wolves.

1.2 EVEN MORE TESTS

Blood-red were his spurs i' the golden noon; wine-red was his velvet coat, when they shot him down on the highway, down like a dog on the highway, and he lay in his blood on the highway, with the bunch of lace at his throat.

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1.2.1 *A test of three parts*

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2 More is always better!

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ANOTHER TEST CHAPTER

To test is to live. To believe is to die.

— ANONYMOUS HERETIC

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Yes, this is just a test. If you read this, you are most likely doomed.

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```
 1: init M ← 0 ∈ B^{N×r}                               ▷ Result matrix
 2: for i ← 1 to N do
 3:     for j ← r − r_1 + 1 to r do
 4:         ℓ ← RANDOMSELECT({1, . . . , j − 1}) ▷ Uniformly select set entry
 5:         if M[i, ℓ] = 1 then
 6:             M[i, j] ← 1
 7:         else
 8:             M[i, ℓ] ← 1
 9:         end if
10:     end for
11: end for
```

Algorithm 2.1: Algorithm for the generation of a block M of N uncorrelated random vectors of length r, containing exactly r_1 ones.
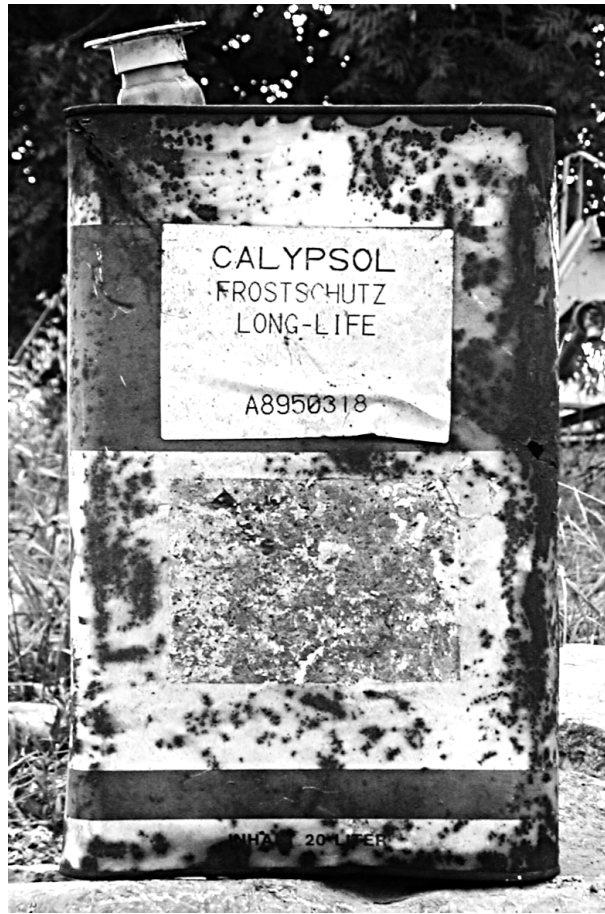
Figure 2.1: Truly a fine canister, comparable only to Mjölnir.

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A picture says more than a thousand words (see 2.1).

2.1 THE THROAT OF THE WORLD

Margin notes help to add structure to long runs of text

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

- First item in a list
  - First item in a list
  - Second item in a list
  - Third item in a list
  - Fourth item in a list
  - Fifth item in a list
- Second item in a list
- Third item in a list
- Fourth item in a list
- Fifth item in a list

2.2 THE SILENCE HAS BEEN BROKEN

Test test test

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

1. First item in a list

   a) First item in a list

   b) Second item in a list

   c) Third item in a list

   d) Fourth item in a list

   e) Fifth item in a list

2. Second item in a list

3. Third item in a list

4. Fourth item in a list

5. Fifth item in a list

2.3   DISCERNING THE TRANSMUNDANE

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

You can even add small formulas, like this one:

$$\sum_{i=1}^{n} i = n \cdot \frac{n+1}{2}$$

2.3.1   *Composure, Speed, and Precision*

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Or this one:

$$E = mc^2$$

GLOSSARY

Mjölnir the hammer of Thor. 6

wolf an awesome animal and a subspecies of *Canis lupus*. 2

BIBLIOGRAPHY

[Bot+10]   M. Botsch et al. *Polygon Mesh Processing*. Ak Peters Series. Taylor & Francis, 2010. ISBN: 9781568814261.