My First Document

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1 Introduction

This is the introduction.

2 Methods

2.1 Stage 1

The first part of the methods.

2.2 Stage 2

The second part of the methods.

3 Results

Here are my results. Referring to section **??** on page **??**.

4 Typesetting Text

4.1 font effects

words in italics slanted words All These Words are in Small Caps
bold words `Words in teletype` Words in sans serif Roman words underlined words

4.2 coloured text

I am cyan! fire.

4.3 font sizes

tiny words scriptsize words footnotesize words small words normalsize words large words
Large words huge words

4.4 lists

- First thang first
+ Second thing
  fish A sub-thang
  Plants another sub-thang
1. Third thing

4.5 comments & spacing

It is a truth universally acknowledged , that a single man in possession of a good fortune, must be in want of a wife.

Line 1

Line 2

Line 3 Line 4

New line

Another new line same line

new paragraph

I woud like some vertical space below

102pt above?

4.6 special characters

backslash: \

$ % ^ & _ { } ~

ê ẽ

Text Test
Item #1A\642 costs $8 & is sold at a ~10% profit.

5 Tables

Apples	Green
Stawberries	Red
Oranges	Oranges

Apples	Green
Stawberries	Red
Oranges	Oranges

8	here's
68	stuff
2008	now

5.1 practical

Item	Quantity	Price ($)
Nail	500	0.34
Wooden boards	100	4.00
Bricks	240	11.50

	Year		
City	2006	2007	2008
London	45789	45345	87654
Berlin	45789	45345	87654
Paris	45789	45345	87654

6 Figures

Inserting images!

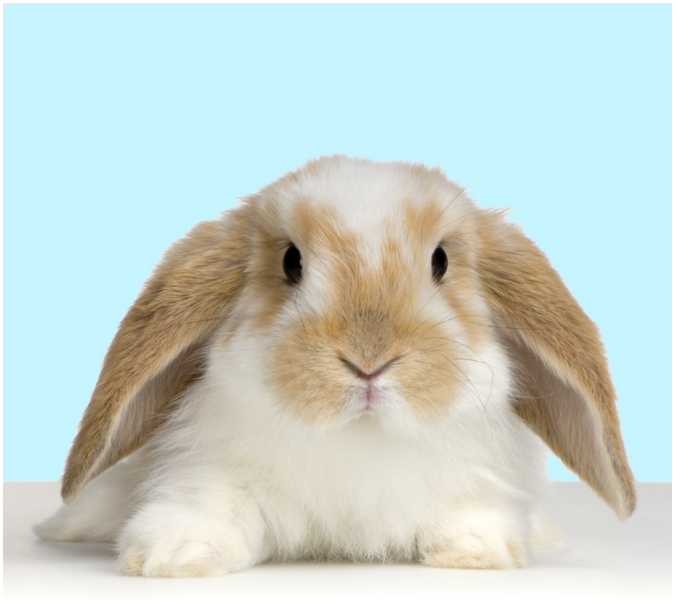

Figure 1: A bunny

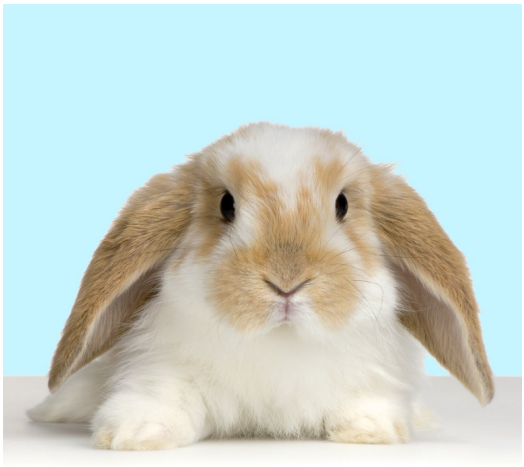

Figure 2: My test image, another bunny

7 Equations

7.1 inserting equations

Mathmode

$1 + 2 = 3$

$$1 + 2 = 3$$

$$1 + 2 = 3 \tag{1}$$

$$\begin{aligned} a &= b + c \\ &= y - z \end{aligned}$$

7.2 Mathamatical Symbols

7.2.1 Powers & Indices

Maths:

Power: n^2

Indice: 2_a

Symbol uses more than one character? b_{a-2}

7.2.2 Fractions

numerator then denominator

$$\frac{a}{3}$$

Nested:

$$\frac{y}{\frac{3}{x}+b}$$

7.2.3 Roots

Square Root:

$$\sqrt{y^2}$$

$$\sqrt[x]{y^2}$$

7.2.4 Sums & Integral

Title:

Sum:

$$\sum$$

$$\sum_{x=1}^{5} y^z$$

Integral:

$$\int$$

$$\int_a^b f(x)$$

7.2.5 Greek Letters

title

alpha: α

beta: β

delta: δ, Δ

theta: θ, Θ

mu: μ

pi: π, Π

sigma: σ, Σ

phi: ϕ, Φ

psi: ψ, Ψ

omega: ω, Ω

7.2.6 Practical

$$e = mc^2 \tag{2}$$

$$\pi = \frac{c}{d} \tag{3}$$

$$\frac{d}{dx}e^x = e^x \tag{4}$$

$$\frac{d}{dx}\int_0^\infty f(s)ds = f(x) \tag{5}$$

$$f(x) = \sum_i = 0^\infty \frac{f^(i)(0)}{i!}x^i \tag{6}$$

$$x = \sqrt{\frac{x_i}{z}y} \tag{7}$$

8 Referencing

8.1 BibText File

Created.

*Doc*1.*bib*

8.2 Inserting the bibliography

cite: **?**

nocite:

page number: (**?**, p.214)

site multiple: **????**

8.3 Citing References

8.4 Styles

8.4.1 Numerical Citations

Plain:

The bibliography is ordered alphabetically by first author surname

8.4.2 Author-date citations

natbib package

include author-date citations: (**?**)

Only year in brackets **?**

8.4.3 Other bibliography styles

In order to use external style files then save the style fil (.bst) in the same folder as the .tex and .bib of project.

Include the bst file name in:

`\bibliographystyle{...}`

8.5 practical

9 Further Reading

We need some emoji tags, it's $2k16$!

LaTeX

10 test

```
\it This is how you write in italic
```

References

Daniel Connolly. The rise of JavaScript & Node. *GMIT Journal*, 1:3–10, 2014.

R. Connolly, V. Marisevs, and V. Vaiciulis. The rise of JavaScript & Node. *GMIT Journal*, 1:3–10, 2015.

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