SUPER LONG AND CRYPTIC TITLE EXPLAINING WHY YOU HAVE HAD NO LIFE FOR THE PAST *N*-YEARS

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by **I. M. D. Author**

a dissertation submitted to the Faculty of Graduate Studies of York University in partial fulfilment of the requirements for the degree of

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4. Fourth Examiner
5. Fifth Examiner
6. Sixth Examiner

Abstract

This is the abstract. It's probably the only part people will actually read.

Acknowledgements

This is where your acknowledgements go, because it's important to be nice. Usually thanking people like your supervisor, family, and those who read through your work is a good idea.

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1 Background Chapter

This is chapter 1, which cites Chalmers (2012).

1.1 A section

Some text in a section new text.

1.1.1 A subsection

Some test in a subsection (probably as low as you need to go).

Equation example:

$$P(1|\theta,\phi) = \frac{1}{1+\exp\left[-1.702\cdot(\alpha_1\theta_1+\alpha_2\theta_2+\beta)\right]} \tag{1.1}$$

As can be seen in (1.1)...blah blah blah.

Alternatively, one can use LyX macros to render equations with shorthand notation (define it in one location, but reference it globally). The below equation is generated

simply by opening a math environment and typing `\twoPL`.

$$\frac{\exp(\alpha + \beta\theta)}{1 + \exp(\alpha + \beta\theta)}$$

This correctly renders the equation in LyX, and puts the macro in with the standard LaTeX format (view the source code panel with `View -> Source Pane`). The macro itself was defined in an external file called `custom_macros`, and allows equations and such to be reused by other documents in the future. No more copy-and-pasting! Macros can also have optional and required inputs, like so $\frac{\exp(\alpha)^{20}}{1+\exp(\beta)^{30}}$, where the required inputs were left blank when first defined.

1.2 Section With R Code

It is also possible to include R code directly by using the knitr module, and switching to LyX's ERT mode ("Evil Red Text" for raw LaTeX code). For example:

```
x <- rnorm(100)

head(x)

## [1]  1.4063 -0.2799 -0.6973 -0.5924  1.2972 -0.7731

hist(x)
```

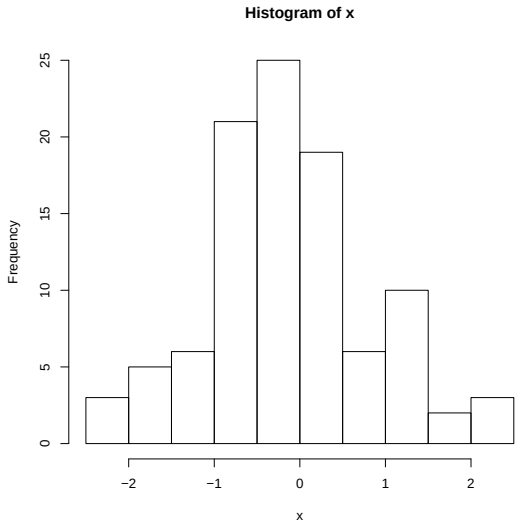

Figure 1.1: My histogram

2 New Material Chapter

This is chapter 2, which also references Equation 1.1. References carry across documents because the master file (*york-thesis.lyx*) has two children: *chapter-1.lyx* and *chapter-2.lyx*.

Include figures and tables by placing them in "floating enviroments". So for a figure, use `Insert -> Float -> Figure`, and then inside the generated box point to your external figure files with `Insert -> Graphics`. Labels are added with `Insert -> Label` and are references with `Insert -> Cross-Reference`.

Figure 2.1: My figure title

Figure 2.1 is an image of York University's logo. Same thing is done for tables; use `Insert -> Float -> Table`, and then inside the generated box point to your external figure files with `Insert -> Table`.

a	b	c
1	2	3
4	5	6

Table 2.1: My table

Bibliography

Chalmers, R. P. (2012). York thesis in LyX. *Journal of Awesome*, *1*, 1–1.