

MY PH.D. THESIS TITLE

BY

FRIST NAME AND LAST NAME, Ph.D.

A THESIS

SUBMITTED TO THE DEPARTMENT OF YOUR DEPARTMENT NAME

AND THE SCHOOL OF GRADUATE STUDIES

OF MCMASTER UNIVERSITY

IN PARTIAL FULFILMENT OF THE REQUIREMENTS

FOR THE DEGREE OF

Ph.D. of Applied Science

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NUMBER OF PAGES: ix, 16

Lay Abstract

A lay abstract of not more 150 words must be included explaining the key goals and contributions of the thesis in lay terms that is accessible to the general public.

Abstract

Abstract here (no more than 300 words)

Your Dedication
Optional second line

Acknowledgements

Acknowledgements go here.

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Chapter 1

Introduction

Every thesis needs an introductory chapter

Chapter 2

Your Chapter Title

This is a sample chapter. For the sake of labelling, I assume this is the first chapter of your thesis. As you can see I define the chapter using one *. After writing the chapter name you need to define the chapter properties. Here where we define the chapter label as :CUSTOM_ID:. The ref:cp# is abbreviation for Chapter. In order to cross references the chapter 2 using link definition in org mode.

2.1 Referencing

Here we defined a new section for the Chapter 2. As it can be seen, we use the abbreviation s for labelling the section follow by section number. For the cross-referencing of sections, follow the same instruction for cross-referencing of chapters.

These are some sample references to GAMYGDALA [2] from the index.bib file and state effects of cognition [1] from the same file. In the latex template, these references are in separate .bib files, while here we merge two files together for convenience. However, references should be defined at the end of this document using the

instruction.

2.2 Figures

This is a single image figure (Figure 2.1). You can label the figure using #+name. The latex related attributes for the figure should written using +#attr_latex. Finally caption for the figure should be written using #+caption. Figure 2.1 depicts an example figure and its org-mode definition.



Figure 2.1: This is a single figure environment

I haven't find any solution to display to images side by side using org-mode. But fortunately it is still possible to solve this problem using the pure latex coding embedded to an org file. Here is the example

You can also define multi-image figure using latex sub-figure definition. Figure 2.2 depicts an example of multi-image figure.

```
\begin{figure}[ht]
  \centering
  \begin{subfigure}[t]{\textwidth}
    \centering
    \includegraphics[width=0.7\textwidth]{Image URL}
    \caption{Figure 1}
    \label{fig_multienv_1}
  \end{subfigure}
  \begin{subfigure}[t]{\textwidth}
    \centering
    \includegraphics[width=0.7\textwidth]{Image URL}
    \caption{Figure 2}
    \label{fig_multienv_2}
  \end{subfigure}
  \caption{A Multi-Figure Environment}
  \label{cp1:s2:fig2}
\end{figure}
```

For the side by side HTML version you can use the code bellow. It is worthful to state that, we assumed all of the images are going to be saved in figure folder. The code generates what can be see above this paragraph.

```
<div class="figure">
<div style="width:50%; float:left">
```

2.3 Tables

Here is a sample table coded using table builder of the org-mode. You can use ATTR_LATEX to set the different attributes of the table (Table 2.1):

Table 2.1: This is table's long caption A table sample

A	\longleftrightarrow	В
С	\longleftrightarrow	D

You can also directly embed the latex code inside the org file. Here is the example

of typing latex table inside the the org file. The code bellow will generate the table depicts above.

```
#+name: cp1:s2:tbl1
#+attr_latex: :width \textwidth :placement [!ht]
#+caption: A table sample
\begin{table}
\centering
\begin{tabular}{ m{0.2\textwidth} m {0.1\textwidth} m{0.15\textwidth} }
\text{\text{toprule}
A & $\longleftrightarrow$ & B \\
C & $\longleftrightarrow$ & D \\
\bottomrule
\end{tabular}
\end{tabular}
\end{table}
```

You can use latex base table definition for this purpose as it depicted above.

2.3.1 Long Tables

A sample long table is shown in B where we described the application of long table.

2.4 Equations

Here is a sample equation (Equation 2.4.1):

$$y = mx + b \tag{2.4.1}$$

2.5 Acronyms and Glossaries

An abbreviation is a short form of a word or phrase that is usually made by deleting certain letters. In the following sentence, everything underlined is an abbreviation.

Acronyms are usually formed using the first letter (or letters) of each word in a phrase, he first time you use the term, put the acronym in parentheses after the full term. Thereafter, you can stick to using the acronym. For example, if it is the first time you are introducing the CPU, you need to use it as Central Processing Unit (CPU). You can also have glossaries as more descriptive acronyms. As an example I've added DSL as a glossary here which is going to introduce the Domain Specific Languages.





Figure 2.2: A Multi-Figure Environment

(b) Figure 2

Chapter 3

Conclusion

Every thesis also needs a concluding chapter

Appendix A

Your Appendix

Your appendix goes here.

Appendix B

Long Tables

This appendix demonstrates the use of a long table that spans multiple pages.

Col A	Col B	Col C	Col D
A	В	С	D
A	В	С	D
A	В	С	D
A	В	С	D
A	В	С	D
A	В	С	D
A	В	С	D
A	В	С	D
A	В	С	D

Continued on next page

Continued from previous page

Col A	Col B	Col C	Col D
A	В	С	D
A	В	С	D
A	В	С	D
A	В	С	D
A	В	С	D
A	В	C	D
A	В	С	D
A	В	С	D
A	В	С	D
A	В	С	D
A	В	С	D

As it stated before, you can generate the same long table by embedding the latex code inside org file. Here is the example of what the final results will be.

\begin{center}

\begin{longtable}{P{3cm}P{3cm}P{2.5cm}P{3.5cm}}

\toprule

\hline

\textbf{Col A} & \textbf{Col B} & \textbf{Col C} & \textbf{Col D} \\ \midrule

```
\endfirsthead
```

\hline

\endlastfoot

A & B & C & D \\ \midrule

A & B & C & D \\ \midrule

A & B & C & D \\ \midrule

A & B & C & D \\ \midrule

A & B & C & D \\ \midrule

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A & B & C & D \\ \midrule

A & B & C & D \\ \midrule

A & B & C & D \\ \midrule

A & B & C & D \\ \midrule

A & B & C & D $\$ midrule

\hline

\end{longtable}

\end{center}

Bibliography

- [1] E. Hudlicka. This time with feeling: Integrated model of trait and state effects on cognition and behavior. *Applied Artifical Intelligence*, 16(7-8):611–641, 2019.
- [2] A. Popescu, J. Broekens, and M. van Someren. GAMYGDALA: An emotion engine for games. 5:32–44, 2014.