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IN ALL UPPER CASE LETTERS AND IN AN INVERTED PYRAMID	
SHAPE. MATH MODE: $\frac{2^{15}}{\pi}$	

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A thesis submitted to the Fa	aculty and the Board of Trust	tees of the Colorado School
of Mines in partial fulfillment of	the requirements for the degr	ee of Doctor of Philosophy
(Computer Science).		
Golden, Colorado		
Date		
	Signed: _	
		Student Name
	Signed: _	
		Dr. Thesis Advisor Thesis Advisor
	Signed: _	
		Dr. Co-Advisor Thesis Advisor
Golden, Colorado		
Date		
	Signed	

Dr. Department Head Professor and Head Department of XXX

ABSTRACT

The abstract is a concise, one to three sentence statement of the thesis problem, a brief description consisting of no more than a few sentences describing the research method or design, and a report of the major findings and conclusions.

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ACKNOWLEDGMENTS

This optional page includes a paragraph or two acknowledging and thanking your advisor(s), committee members, funding sponsors, family members etc.

Typically, if you acknowledge everyone here, you won't have a dedication page.

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INTRODUCTION

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1.1 First section

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1.4 Last section to test Citation

First paper Goossens et al. (1994) did something. Note that here we use ~ to make sure the citation not go to the other line.

Lamport et al. Lamport (1994) did something.

Many papers Makuuchi (2000); Yassin et al. (1994) did something.

All papers Makuuchi (2000); Yassin et al. (1994); Goossens et al. (1994); Lamport (1994) did something.

Online link LLC (1999) is about something.

More papers: Columbus (1492), Goossens et al. (1994), James et al. (1776), Columbus (1492); Phillips (1999); Green et al. (1900); Smith and Weston (1954)

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Abstract

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^{*}Primary author and editor.

¹Department of Civil and Environmental Engineering, Colorado School of Mines, 1500 Illinois Street, Golden, Colorado 80401, USA.

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²Southern Nevada, 550 City Parkway, Suite 810, Las Vegas, NV, 89106, USA.

THIS IS A REALLY REALLY LONG TITLE THAT SOMEONE ELSE WROTE FOR ALL THE PENGUINS IN THE WORLD MATH MODE: $\frac{2^{15}}{\pi}$

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

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FIGURE AND TABLE CHAPTER

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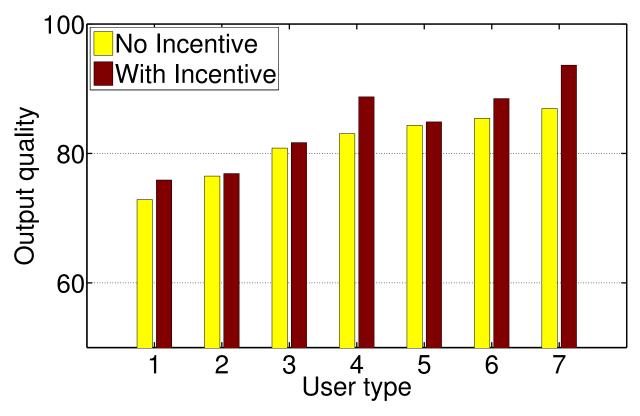
5.1 Figures

The "figure" environment should be used for figures. One or more images can be placed within a figure. If your figure contains third-party material, you must clearly identify it as such, as shown in the example below.

Your figures should contain a caption which describes the figure to the reader. Figure captions go below the figure. Your figures should **also** include a description suitable for screen readers, to assist the visually-challenged to better understand your work.

Figure captions are placed *below* the figure.

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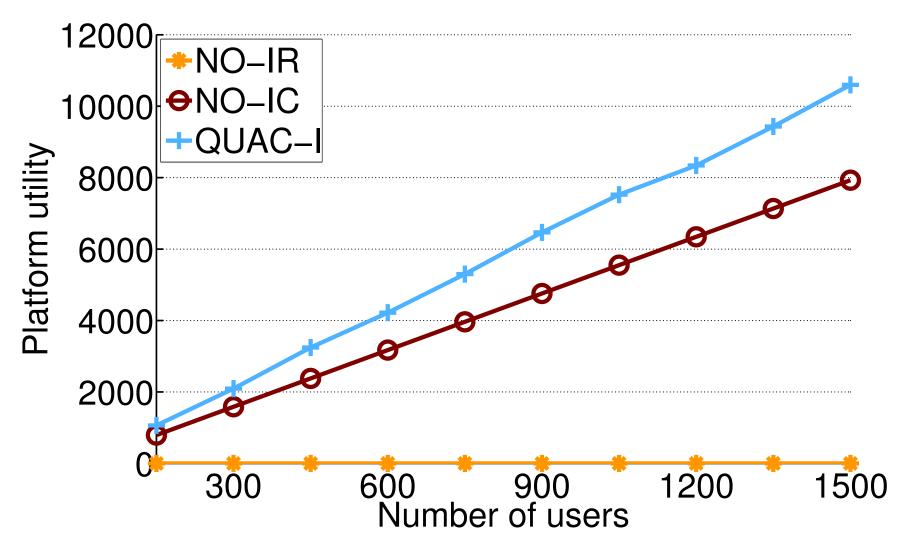


Figure 5.2: Example of a figure in landscape mode.

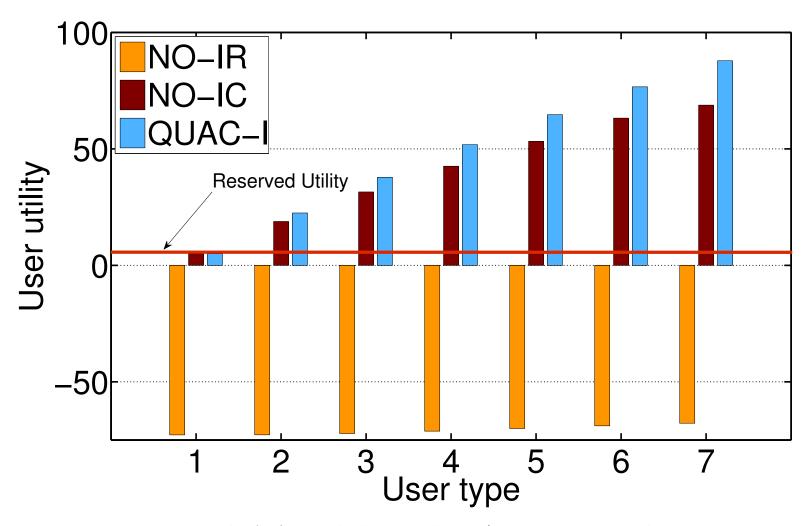
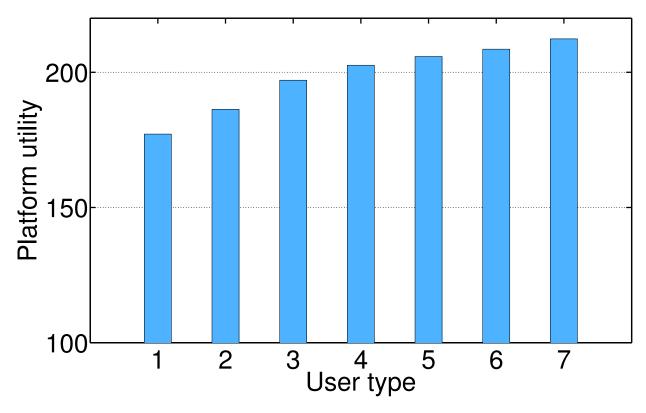


Figure 5.3: Example of a figure in landscape mode. Use \centering to center the image



5.2 Tables

The "minesthesis" document class includes the "booktabs" package — https://ctan.org/pkg/booktabs — for preparing high-quality tables.

Table captions are placed *above* the table.

Because tables cannot be split across pages, the best placement for them is typically the top of the page nearest their initial cite. To ensure this proper "floating" placement of tables, use the environment **table** to enclose the table's contents and the table caption. The contents of the table itself must go in the **tabular** environment, to be aligned properly in rows and columns, with the desired horizontal and vertical rules. Again, detailed instructions on **tabular** material are found in the \rlap/DT_FX User's Guide.

Immediately following this sentence is the point at which Table 5.1 is included in the input file; compare the placement of the table here with the table in the printed output of

this document.

Table 5.1: Frequency of Special Characters

Non-English or Math	Frequency	Comments
Ø	1 in 1,000	For Swedish names
π	1 in 5	Common in math
\$	4 in 5	Used in business
Ψ_1^2	1 in 40,000	Unexplained usage

Table 5.2: Some Typical Commands

Command	A Number	Comments	Command	A Number	Comments
\author	100	Author	\author	100	Author
\table	300	For tables	\table	300	For tables
\table*	400	For wider tables	\table*	400	For wider tables

To set a wider table, which takes up the whole width of the page's live area, use the environment **table*** to enclose the table's contents and the table caption. As with a single-column table, this wide table will "float" to a location deemed more desirable. Immediately following this sentence is the point at which Table 5.2 is included in the input file; again, it is instructive to compare the placement of the table here with the table in the printed output of this document.

Command	A Number	Comments	Command	A Number	Comments
\author	100	Author	\author	100	Author
\table	300	For tables	\table	300	For tables
\table*	400	For wider tables	\table*	400	For wider tables

Table 5.4: A table in landscape mode

Command	A Number	Comments	Command	A Number	Comments	Command	A Number	Comments
\author	100	Author	\author	100	Author	\author	100	Author
\table	300	For tables	\table	300	For tables	\table	300	For tables
\table*	400	For wider tables	\table*	400	For wider tables	\table*	400	For wider tables
\author	100	Author	\author	100	Author	\author	100	Author
\table	300	For tables	\table	300	For tables	\table	300	For tables
\table*	400	For wider tables	\table*	400	For wider tables	\table*	400	For wider tables
\author	100	Author	\author	100	Author	\author	100	Author
\table	300	For tables	\table	300	For tables	\table	300	For tables
\table*	400	For wider tables	\table*	400	For wider tables	\table*	400	For wider tables
\author	100	Author	\author	100	Author	\author	100	Author
\table	300	For tables	\table	300	For tables	\table	300	For tables
\table*	400	For wider tables	\table*	400	For wider tables	\table*	400	For wider tables

5.3 Last section

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6.3 Last section to test Citation

First paper Goossens et al. (1994) did something. Note that here we use ~ to make sure the citation not go to the other line.

Lamport et al. Lamport (1994) did something.

Many papers Makuuchi (2000); Yassin et al. (1994) did something.

All papers Makuuchi (2000); Yassin et al. (1994); Goossens et al. (1994); Lamport (1994) did something.

Online link LLC (1999) is about something.

LAST LAST CHAPTER

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APPENDIX A

SUPPLEMENT DATA

Appendix material is information that is not essential to the text but that contributes to it.

Appendices are used to include information such as the following:

- Original data
- Long quotations
- Supporting legal decisions or laws
- Computer codes and programs
- Lithologic and petrographic descriptions
- Questionnaires
- Forms and documents
- Permissions to use copyrighted material
- Long tables

All Figuires and Tables in an Appendix need to be labeled with a number & a caption and need to be listed in either the List of Figures or List of Tables.

You may include long appendices as electronic attachments to your thesis. In either instance, appendices are listed in the table of contents.

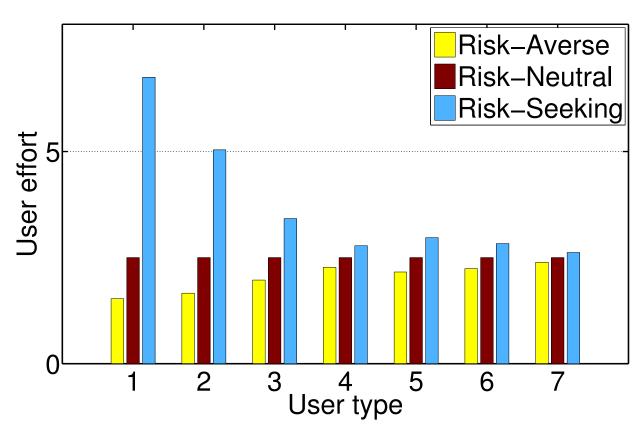


Figure A.1: Example figure in Appendix A

APPENDIX B

SUPPLEMENTAL ELECTRONIC FILES

The Appendix for the Supplemental Electronic Files should look like the example below. Be sure to include the Appendix in the Table of Contents.

Table B.1: Example Table in Appendix B

Non-English or Math	Frequency	Comments
Ø	1 in 1,000	For Swedish names
π	1 in 5	Common in math
\$	4 in 5	Used in business
Ψ_1^2	1 in 40,000	Unexplained usage