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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 Facul	ty and the Board of Trustees	of the Colorado School
of Mines in partial fulfillment of the	requirements for the degree of	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.

The abstract submitted online at the time of thesis submission should be the same as the abstract inside the thesis. ProQuest continues to publish print indexes that have maximum abstract lengths of 150 words for Masters and 350 words for PhDs. Abstracts exceeding these limits will be truncated in the print indexes so it may be wise to work within those word limits in most cases.

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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.

Dedication Page: A dedication page is optional and not frequently included in a thesis. However, occasionally the thesis writer wants to dedicate the document to a professional colleague, friend, or relative. A dedication typically expresses gratitude for someone's support. If a dedication page is included, it is placed at the end of the front matter section, following the acknowledgments. Typically, a dedication page has no title, it simply states, e.g., "For my father." Roman numeral page numbering continues on the dedication page.

INTRODUCTION

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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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Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. In hac habitasse platea dictumst. Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim. Nunc vitae tortor. Proin tempus nibh sit amet nisl. Vivamus quis tortor vitae risus porta vehicula.

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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: $\frac{2^{15}}{\pi}$

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FIGURE AND TABLE CHAPTER

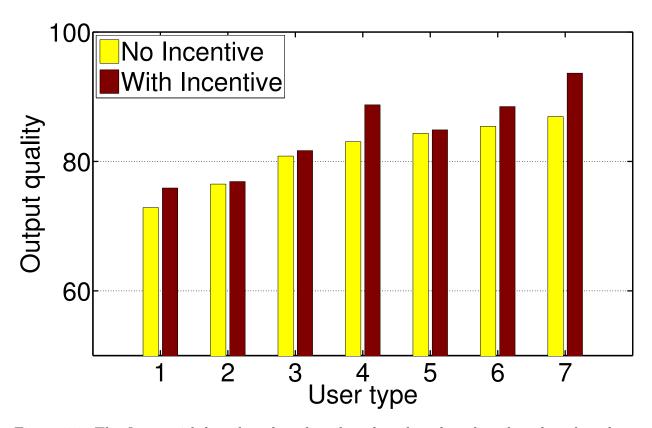
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5.1 Figures

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.

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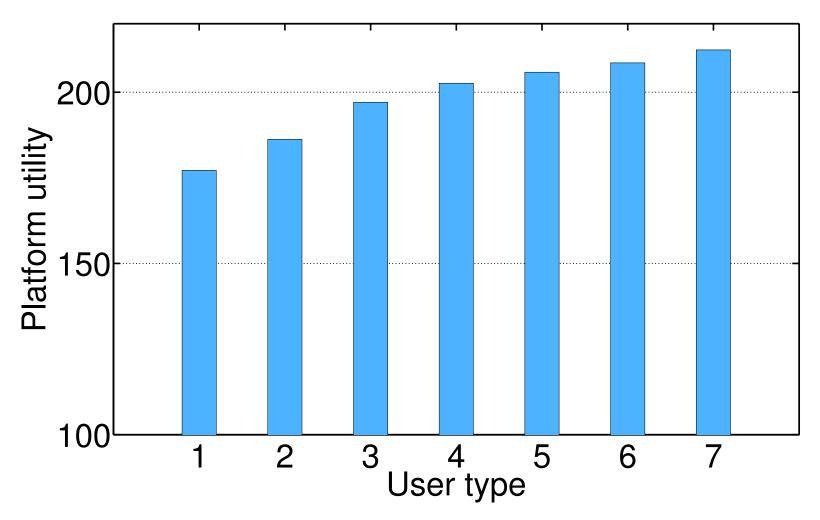


Figure 5.2: Continues figures in landscape mode. (first)

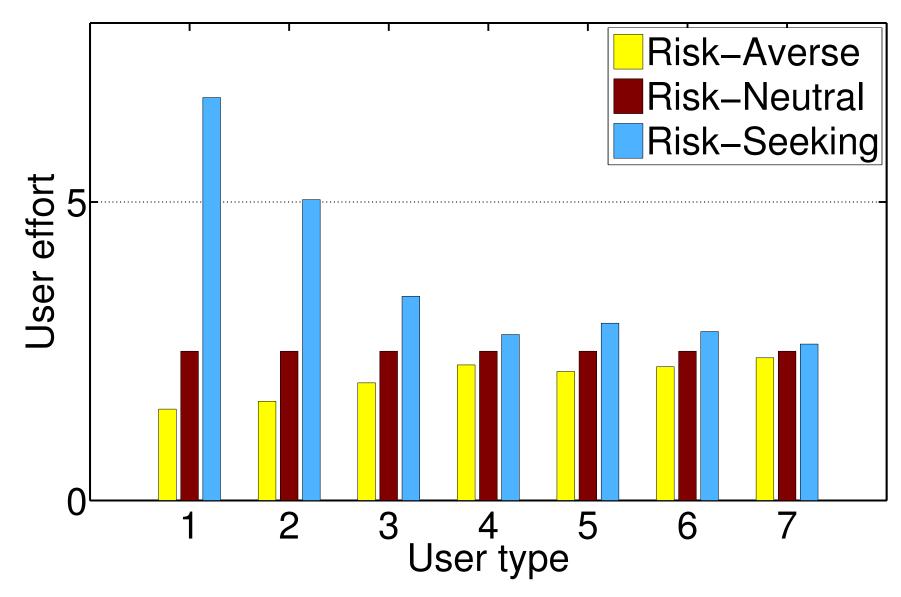


Figure 5.3: Continues figures in landscape mode. (second)

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.

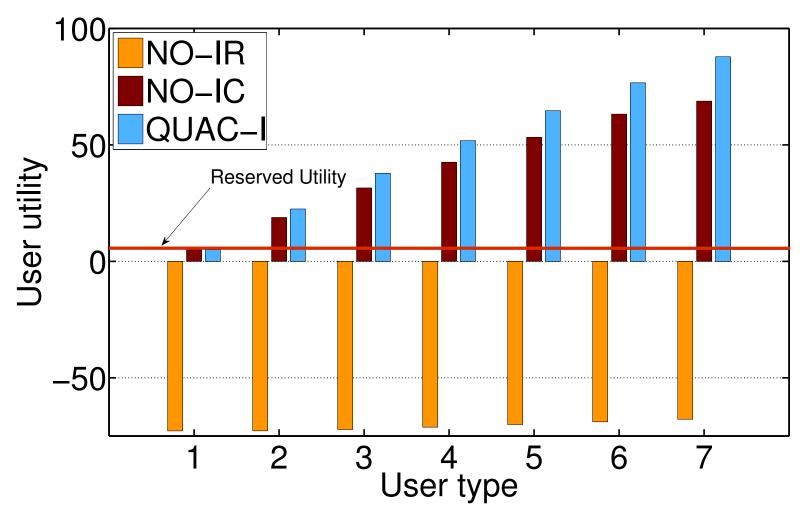
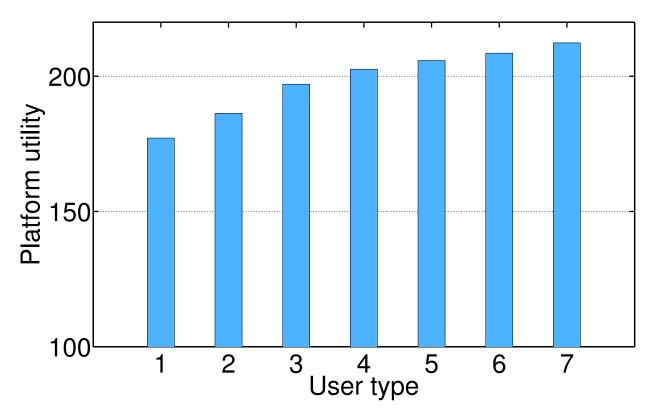


Figure 5.4: Example of a figure in landscape mode. Use \centering to center the image



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 LATEX 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

Table 5.3: Some Typical Commands with borders

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 5.5: 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 Section of Long Tables

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5.3.1 Currently supported publications

Table 5.6: ACM publications and arguments of the \acmJournal command Source: https://www.acm.org/binaries/content/assets/publications/consolidated-tex-template/acmart.pdf

Abbreviation	Publication
CIE	ACM Computers in Entertainment
CSUR	ACM Computing Surveys
DGOV	Digital Government: Research and Practice
DTRAP	Digital Threats: Research and Practice
HEALTH	ACM Transactions on Computing for Healthcare
IMWUT	PACM on Interactive, Mobile, Wearable and Ubiquitous Technologies

Table 5.6: ACM publications and arguments of the \acmJournal command (continued)

Abbreviation	Publication			
JACM	Journal of the ACM			
JDIQ	ACM Journal of Data and Information Quality			
JEA	ACM Journal of Experimental Algorithmics			
JERIC	ACM Journal of Educational Resources in Computing			
JETC	ACM Journal on Emerging Technologies in Computing Systems			
JOCCH	ACM Journal on Computing and Cultural Heritage			
PACMCGIT	Proceedings of the ACM on Computer Graphics and Interactive			
	Techniques			
PACMHCI	PACM on Human-Computer Interaction			
PACMPL	PACM on Programming Languages			
POMACS	PACM on Measurement and Analysis of Computing Systems			
TAAS	ACM Transactions on Autonomous and Adaptive Systems			
TACCESS	ACM Transactions on Accessible Computing			
TACO	ACM Transactions on Architecture and Code Optimization			
TALG	ACM Transactions on Algorithms			
TALLIP	ACM Transactions on Asian and Low-Resource Language Information			
	Processing			
TAP	ACM Transactions on Applied Perception			
TCPS	ACM Transactions on Cyber-Physical Systems			
TDS	ACM Transactions on Data Science			
TEAC	ACM Transactions on Economics and Computation			
TECS	ACM Transactions on Embedded Computing Systems			
TELO	ACM Transactions on Evolutionary Learning			
THRI	ACM Transactions on Human-Robot Interaction			

Table 5.6: ACM publications and arguments of the \acmJournal command (continued)

Abbreviation	Publication		
TIIS	ACM Transactions on Interactive Intelligent Systems		
TIOT	ACM Transactions on Internet of Things		
TISSEC	ACM Transactions on Information and System Security		
TIST	ACM Transactions on Intelligent Systems and Technology		
TKDD	ACM Transactions on Knowledge Discovery from Data		
TMIS	ACM Transactions on Management Information Systems		
TOCE	ACM Transactions on Computing Education		
TOCHI	ACM Transactions on Computer-Human Interaction		
TOCL	ACM Transactions on Computational Logic		
TOCS	ACM Transactions on Computer Systems		
TOCT	ACM Transactions on Computation Theory		
TODAES	ACM Transactions on Design Automation of Electronic Systems		
TODS	ACM Transactions on Database Systems		
TOG	ACM Transactions on Graphics		
TOIS	ACM Transactions on Information Systems		
TOIT	ACM Transactions on Internet Technology		
TOMACS	ACM Transactions on Modeling and Computer Simulation		
TOMM	ACM Transactions on Multimedia Computing, Communications and		
	Applications		
TOMPECS	ACM Transactions on Modeling and Performance Evaluation of		
	Computing Systems		
TOMS	ACM Transactions on Mathematical Software		
TOPC	ACM Transactions on Parallel Computing		
TOPLAS	ACM Transactions on Programming Languages and Systems		

Table 5.6: ACM publications and arguments of the \acmJournal command (continued)

Abbreviation	Publication
TOPS	ACM Transactions on Privacy and Security
TOS	ACM Transactions on Storage
TOSEM	ACM Transactions on Software Engineering and Methodology
TOSN	ACM Transactions on Sensor Networks
TQC	ACM Transactions on Quantum Computing
TRETS	ACM Transactions on Reconfigurable Technology and Systems
TSAS	ACM Transactions on Spatial Algorithms and Systems
TSC	ACM Transactions on Social Computing
TSLP	ACM Transactions on Speech and Language Processing
TWEB	ACM Transactions on the Web

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Table 5.7: Feasible triples for highly variable Grid, MLMMH. source:http://users.sdsc.edu/~ssmallen/latex/longtable.html

	<u> </u>	
Times(s)	Triple chosen	Other feasible triples
0	(1, 11, 13725)	(1, 12, 10980), (1, 13, 8235), (2, 2, 0), (3, 1, 0)
2745	(1, 12, 10980)	(1, 13, 8235), (2, 2, 0), (2, 3, 0), (3, 1, 0)
5490	(1, 12, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
8235	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
10980	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
13725	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
16470	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
19215	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
21960	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
24705	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
27450	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
30195	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
32940	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
35685	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
38430	(1, 13, 10980)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
41175	(1, 12, 13725)	(1, 13, 10980), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
43920	(1, 13, 10980)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
46665	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
49410	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
52155	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
		Continued on next page

Table 5.7 – continued from previous page

Time (s)	Triple chosen	Other feasible triples
54900	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
57645	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
60390	(1, 12, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
63135	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
65880	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
68625	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
71370	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
74115	(1, 12, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
76860	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
79605	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
82350	(1, 12, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
85095	(1, 12, 13725)	(1, 13, 10980), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
87840	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
90585	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
93330	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
96075	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
98820	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
101565	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
104310	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
107055	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
109800	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
112545	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
115290	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
118035	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
		Continued on next page

Table 5.7 – continued from previous page

Time (s)	Triple chosen	Other feasible triples
120780	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
123525	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
126270	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
129015	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
131760	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
134505	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
137250	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
139995	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
142740	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
145485	(1, 12, 16470)	(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
148230	(2, 2, 2745)	(2, 3, 0), (3, 1, 0)
150975	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
153720	(1, 12, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
156465	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
159210	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
161955	(1, 13, 16470)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
164700	(1, 13, 13725)	(2, 2, 2745), (2, 3, 0), (3, 1, 0)

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LAST CHAPTER

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6.1 First 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.

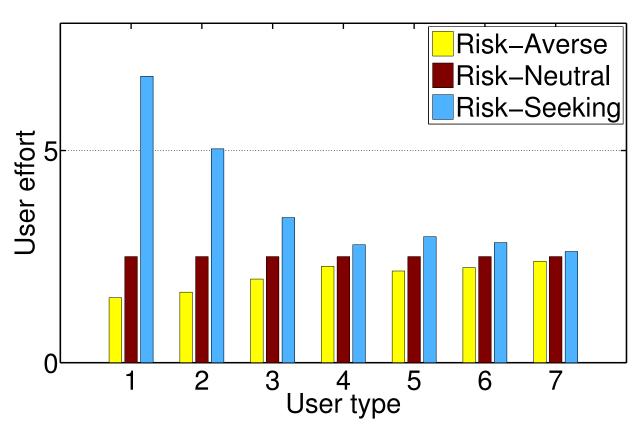


Figure A.1: Example Figure in Appendix A

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