THESIS TITLE CENTERED ON THE PAGE VERTICALLY AND HORIZONTALLY, IN ALL UPPER CASE LETTERS AND IN AN INVERTED PYRAMID SHAPE. MATH MODE:  $\frac{2^{15}}{\pi}$ 

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#### TABLE OF CONTENTS

ABSTR	RACT	ii	i
LIST O	OF FIGURES	v	i
LIST O	OF TABLES	vi	i
ACKNO	OWLEDGMENTS	vii	i
СНАРТ	TER 1 INTRODUCTION		1
1.1	First section		1
1.2	Sencond section		1
1.3	Last section Math mode: $\frac{2^{15}}{\pi}$		2
1.4	Last section to test Citation		2
СНАРТ	TER 2 REPRODUCED CHAPTER: THIS CHAPTER REPRODUCED CHAPTER CHAPTE	CLE HAS FED FOR	4
2.1	First section		4
СНАРТ	TER 3 THIS IS A REALLY REALLY LONG TITLE THAT SET USE WROTE FOR ALL THE PENGUINS IN THE MATH MODE: $\frac{2^{15}}{\pi}$	WORLD	5
3.1	First section		5
3.2	This is a really	ally really than three	5
3.3	Last section	(	6
СНАРТ	TER 4 EXAMPLE OF LONG LONG LONG LONG LONG LONG LONG LONG	IG LONG IG LONG	7
4.1	First section		7
4.2	Second section	8	8
4.3	Last section	8	8
СНАРТ	TER 5 FIGURE AND TABLE CHAPTER	(	9
5.1	Figures		9
5.2	Tables	15	5
5.3	Section of Long Tables	18	8
СНАРТ	TER 6 LAST CHAPTER	25	3
6.1	First section	25	3
6.2	Second section	99	3

6.3 Last section to test Citation	4
CHAPTER 7 LAST LAST CHAPTER	5
7.1 Section	5
REFERENCES	7
APPENDIX A SUPPLEMENT DATA	3
APPENDIX B SUPPLEMENTAL ELECTRONIC FILES	)

#### LIST OF FIGURES

Figure 5.1	The figure with long long long long long long long long	9
Figure 5.2	Continues figures in landscape mode. (first)	11
Figure 5.3	Continues figures in landscape mode. (second)	12
Figure 5.4	Example of a figure in landscape mode. Use \centering to center the image	14
Figure 5.5	Short version caption for LoF, the original caption is really long	15
Figure A.1	Example Figure in Appendix A	29

#### LIST OF TABLES

Table 5.1	Frequency of Special Characters	16
Table 5.2	Some Typical Commands	16
Table 5.3	Some Typical Commands with borders	16
Table 5.4	Some table with really long long long long long long long long	16
Table 5.5	A table in landscape mode	17
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	18
Table 5.7	Feasible triples for a highly variable Grid	20
Table B.1	Example Table in Appendix B	30

#### ACKNOWLEDGMENTS

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#### INTRODUCTION

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

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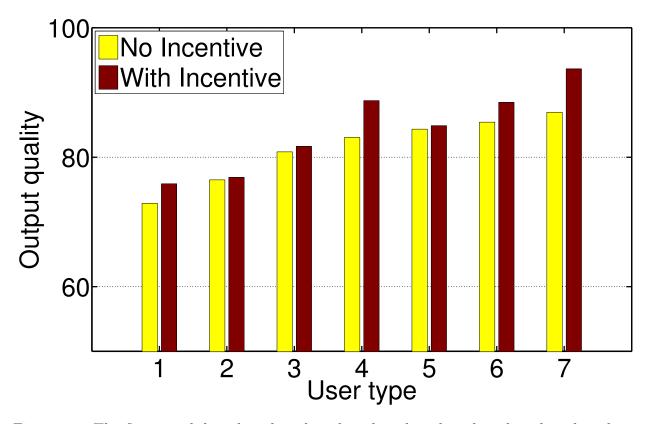
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#### FIGURE AND TABLE CHAPTER

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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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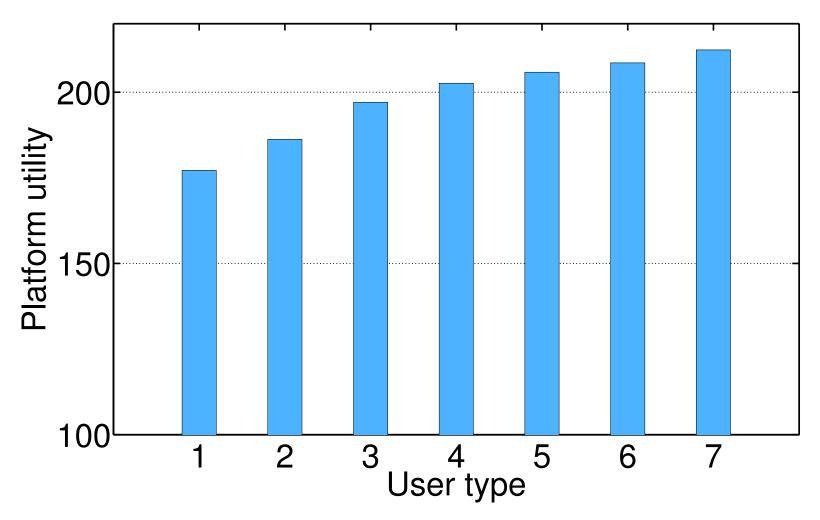


Figure 5.2: Continues figures in landscape mode. (first)

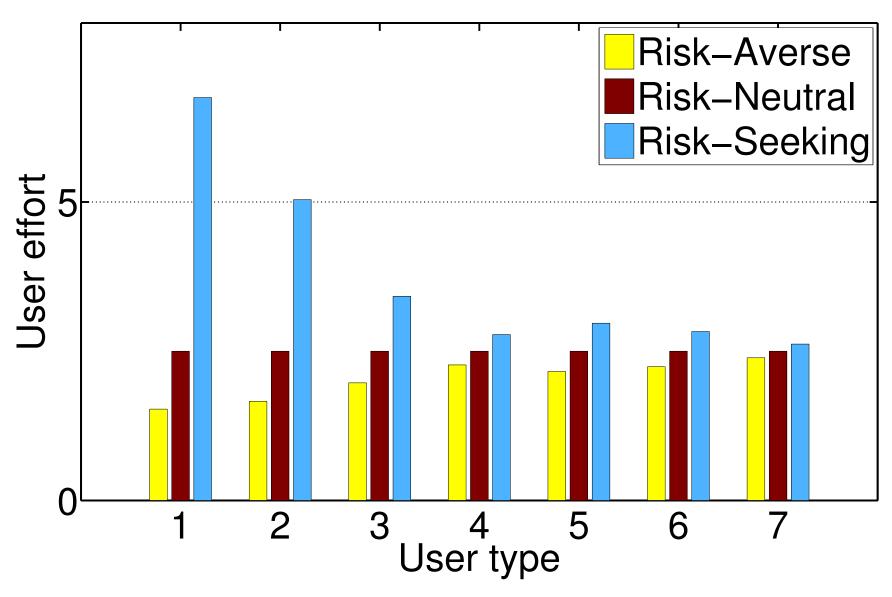


Figure 5.3: Continues figures in landscape mode. (second)

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.

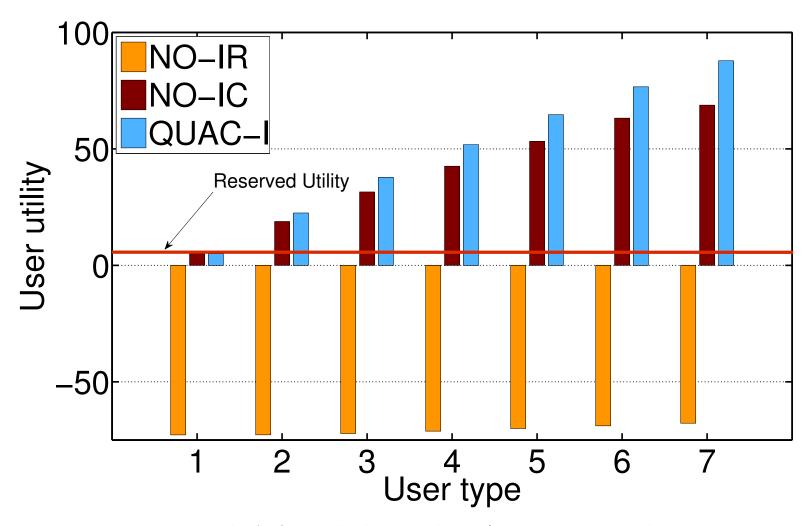
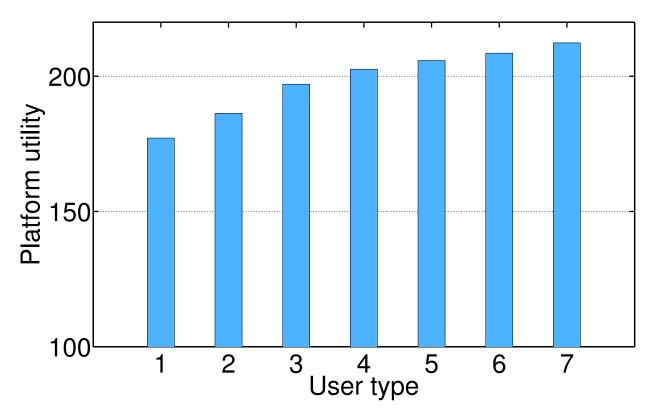


Figure 5.4: Example of a figure in landscape mode. Use  $\backslash$ centering to center the image



#### 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  $\not\!\! ETFX$  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.

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

Table 5.1: Frequency of Special Characters

Non-English or Math	Frequency	Comments
Ø	1 in 1,000	For Swedish names
$\pi$	1  in  5	Common in math
\$	4  in  5	Used in business
$\Psi_1^2$	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

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
$\hat{\}$	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
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

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

Λ h h morri - 4:	Dublication
Abbreviation	Publication
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
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

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

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)
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)

Table 5.7 Continued

Times(s)	Triple chosen	Other feasible triples
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	, , , , , , , , , , , , , , , , , , , ,	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
112545	(1, 12, 16470)	
115290	, , , , ,	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
118035	· · · · /	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
120780	, , , , ,	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
123525	, , , , , , , , , , , , , , , , , , , ,	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
126270	(1, 12, 16470)	
129015	, , , , , , , , , , , , , , , , , , , ,	(2, 3, 0), (3, 1, 0)
131760	· / /	(2, 3, 0), (3, 1, 0)
134505	, , , , , , , , , , , , , , , , , , , ,	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
137250	,	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
139995		(2, 3, 0), (3, 1, 0)
142740	( ' ' '	(2, 3, 0), (3, 1, 0)
145485		(1, 13, 13725), (2, 2, 2745), (2, 3, 0), (3, 1, 0)
148230	(2, 2, 2745)	
150975	, , , , , , , , , , , , , , , , , , , ,	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
153720	, , , , ,	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
156465		(2, 2, 2745), (2, 3, 0), (3, 1, 0)
159210	, , , , ,	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
161955	( ' ' '	(2, 2, 2745), (2, 3, 0), (3, 1, 0)
164700	(1, 13, 13/25)	(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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#### 7.1 Section

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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.

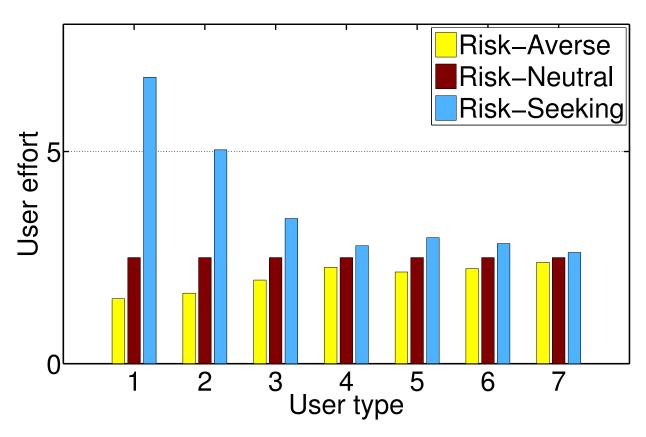


Figure A.1: Example Figure in Appendix A

#### 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
$\pi$	1  in  5	Common in math
\$	4  in  5	Used in business
$\Psi_1^2$	1  in  40,000	Unexplained usage