

THESIS TITLE CENTERED ON THE PAGE VERTICALLY AND HORIZONTALLY,  
IN ALL UPPER CASE LETTERS AND IN AN INVERTED PYRAMID

SHAPE. MATH MODE:  $\frac{2^{15}}{\pi}$

by

Student Name

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A thesis submitted to the Faculty and the Board of Trustees of the Colorado School of Mines in partial fulfillment of the requirements for the degree of Doctor of Philosophy (Computer Science).

Golden, Colorado

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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.

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.

## CHAPTER 1

### INTRODUCTION

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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)

## CHAPTER 2

REPRODUCED CHAPTER: THIS CHAPTER REPRESENTS THAT STYLE USED  
WHEN A JOURNAL ARTICLE HAS ALREADY BEEN PUBLISHED  
OR HAS BEEN ACCEPTED FOR PUBLICATION

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2012 Elsevier Ltd. Katherine Smith <sup>\*</sup> <sup>1</sup>, Eric Wright <sup>†</sup> <sup>2</sup>

### Abstract

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---

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<sup>2</sup>Southern 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

### 3.1 First section

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LONG LONG LONG LONG LONG LONG LONG CHAPTER

## 4.1 First section

### 4.1.1 Subsection

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#### 4.1.2.1 SubSubsection

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## CHAPTER 5

### 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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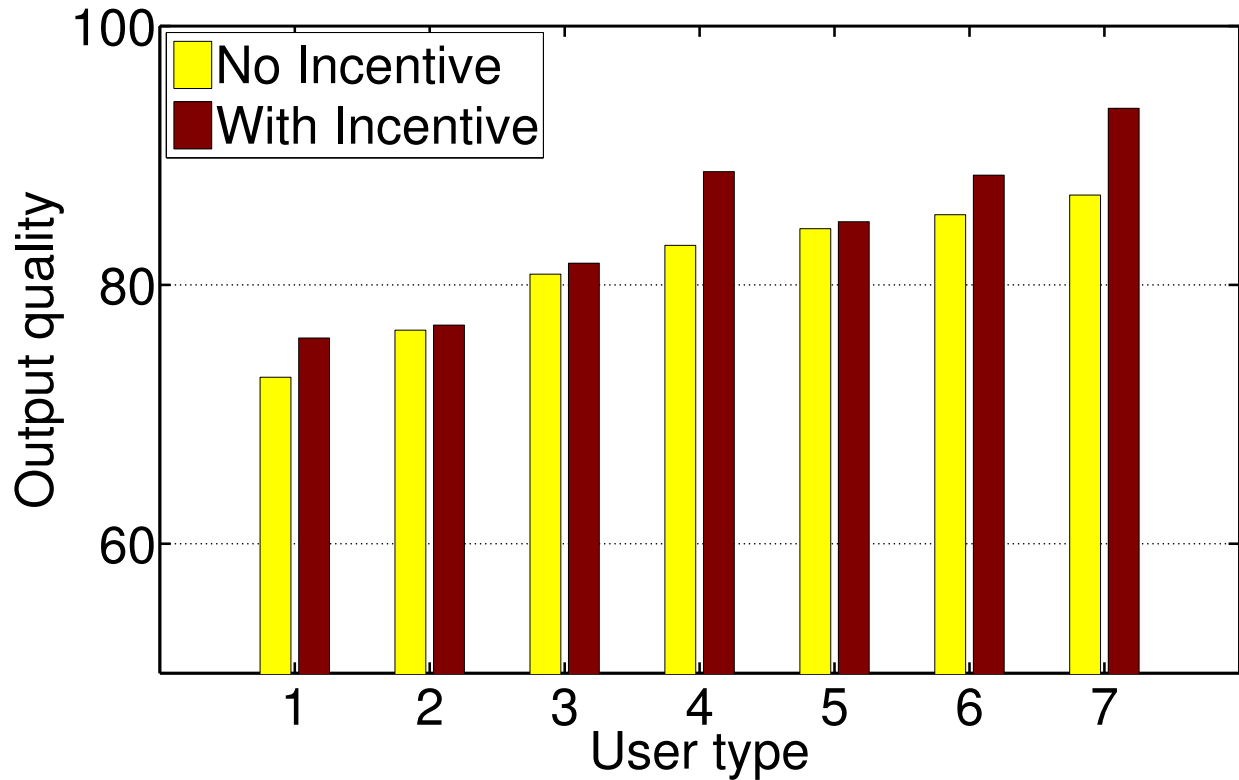


Figure 5.1: 1907 Franklin Model D roadster. Photograph by Harris & Ewing, Inc. [Public domain], via Wikimedia Commons. (<https://goo.gl/VLCRBB>).

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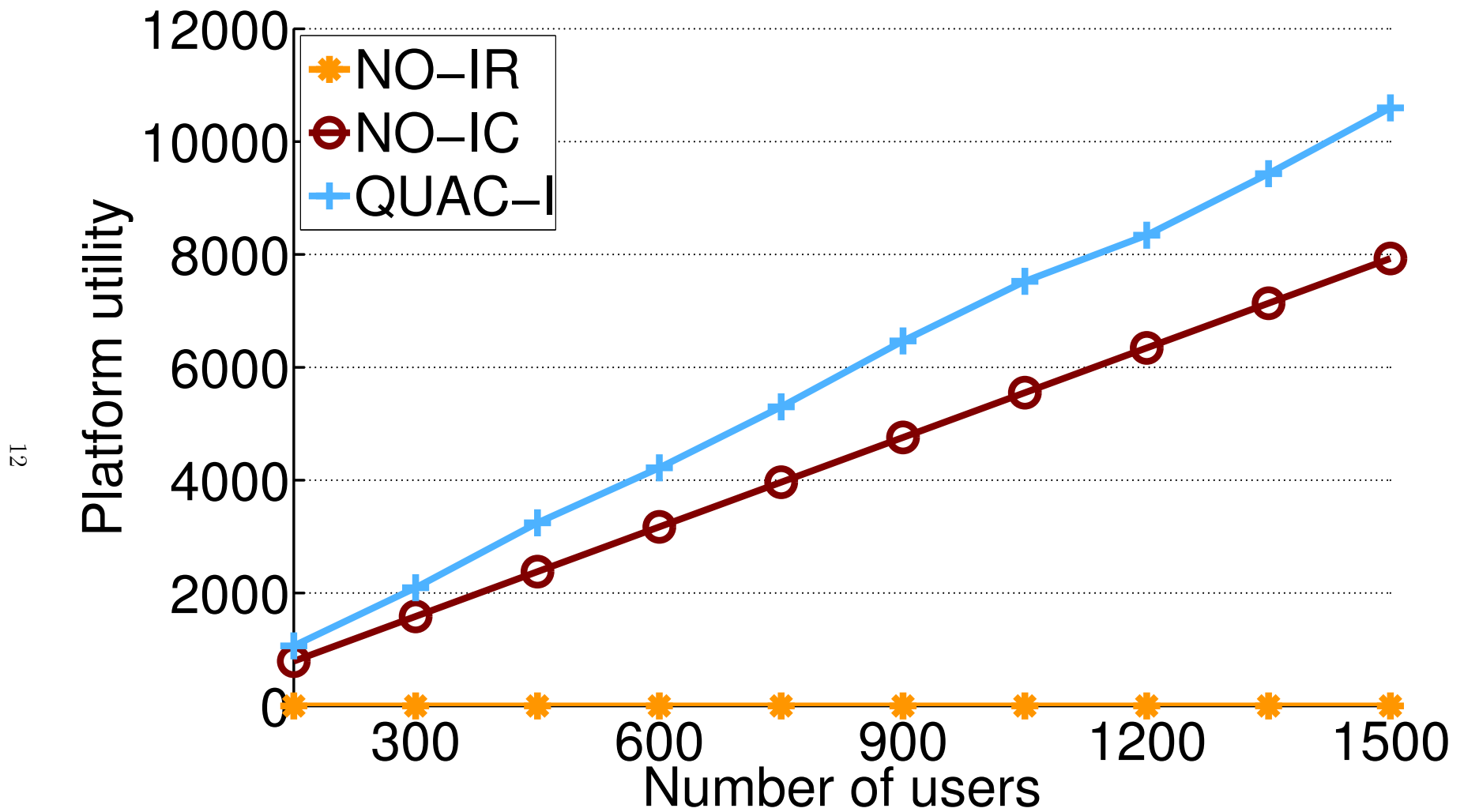


Figure 5.2: 1907 Franklin Model D roadster. Photograph by Harris & Ewing, Inc. [Public domain], via Wikimedia Commons. (<https://goo.gl/VLCRBB>).

Table 5.1: Frequency of Special Characters

| Non-English or Math | Frequency   | Comments          |
|---------------------|-------------|-------------------|
| $\emptyset$         | 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 |

## 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 *L<sup>A</sup>T<sub>E</sub>X 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 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.

## 5.3 Last section

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Table 5.2: Some Typical Commands

| Command              | A Number | Comments         |
|----------------------|----------|------------------|
| <code>\author</code> | 100      | Author           |
| <code>\table</code>  | 300      | For tables       |
| <code>\table*</code> | 400      | For wider tables |

vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.

Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, nunc dui lobortis purus, quis congue purus metus ultricies tellus. Proin et quam. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Praesent sapien turpis, fermentum vel, eleifend faucibus, vehicula eu, lacus.



## CHAPTER 6

### LAST CHAPTER

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## CHAPTER 7

### 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 Figures 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.

## 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.