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COLOPHON

This thesis was typeset using LaTeX and the `tufte-book` documentclass. It is based on Aaron Turon's thesis *Understanding and expressing scalable concurrency*[1], a mixture of `classicthesis`[2] by André Miede and `tufte-latex`[3], based on Edward Tufte's *Beautiful Evidence*.

The bibliography was processed by Biblatex. All graphics and plots are made with PGF/Ti*k*Z.

Michael Sharpe's XCharter, an extension of Bitstream Charter, acts as the serif typeface, while TeX Gyre Heros, is the sans-serif typeface. Monospaced text uses Jim Lyles's `Bitstream Vera Mono`. The display typeface can be set to Knuth's `Concrete Modern`, Euler or the standard LaTeX display font.

[1] https://people.mpi-sws.org/~turon/turon-thesis.pdf
[2] https://bitbucket.org/amiede/classicthesis/
[3] https://github.com/Tufte-LaTeX/tufte-latex

DECLARATION

I herewith declare that I have produced this paper under the supervision of Prof. XXXX at the University of Camerino, without the prohibited assistance of third parties and without making use of aids, other than those specified. Notions taken over directly or indirectly from other sources have been identified as such. This paper has not previously been presented in an identical or similar form to any other Italian or foreign examination board.

XXXXXXXXXXXXXXXXXX
2026

* This dissertation is presented in partial fulfillment of the requirements for **Ph.D. degree** in the School of Advanced Studies of University of Camerino.

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Abstract

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Part I

Prologue

1

Introduction

Giraffes are heartless creatures
—Anonymous

1.1 CLASS OPTIONS

- `euler` Uses euler as display typeface.
- `concrete` Use concrete modern as display typeface.
- `dropfolio` Enable drop folios (page numbers on the bottom center of new chapter pages).
- `sidecite` Enable side citations using `\cite` and `\textcite`. If not in outer par mode, no side citation is produced. If disabled, manual side citations can be generated using `\scite` and `\stextcite`.
- `sfsidenotes` Use sans serif font for side notes.
- `justified` Make text justified instead of ragged right.
- `a4paper` Make page size a4.
- `b5paper` Make page size b5.
- `symmetric` Make the margins always be on the outer edges of the page.

1.2 COMMON COMMANDS

- `\openepigraph{<text>}{<author>}` Full page epigraph.
- `\epigraph{<text>}{<author>}` Side epigraph.
- `\sidenote{<text>}` A sidenote. Distinct from a footnote.
- `\scite{<label>}` Cite command with forced side citation. E.g. [1]
- `\stextcite{<label>}` In-text cite command with forced side citation. E.g. Knuth [1]

[1] Knuth, *The TEX Book*

1.3 COMMON ENVIRONMENTS

- `\begin{fullwidth}\end{fullwidth}` Full width environment (removes the marginpar). Works only on a single page.
- `\begin{multipagefullwidth}\end{multipagefullwidth}` Full width environment (removes the marginpar).
- `\begin{figure}\end{figure}` Figure environment.
- `\begin{figure*}\end{figure*}` Full-width figure environment.
- `\begin{marginfigure}\end{marginfigure}` Margin figure environment.
- `\begin{table}\end{table}` Table environment.
- `\begin{table*}\end{table*}` Full-width table environment.
- `\begin{margintable}\end{margintable}` Margin table environment.
- `\begin{tuftealgorithm}{<label>}{<caption>}\end{tuftealgorithm}` Algorithm environment with the given label that can be ref'd and caption.

1.4 ADDITIONAL NOTES

This class is not compatible with the subcaption package, for subfigures use the subfig package. For other commands, refer to https://ctan.mirror.garr.it/mirrors/ctan/macros/latex/contrib/tufte-latex/sample-book.pdf.

Part II

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2

Chapter 1

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

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Part III

Epilogue

3

Conclusion

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—xxx

Abbreviations

HTML hypertext markup language

List of Symbols

Latin Letters

l length

Greek Letters

η labeling

Superscripts

$\mathcal{G}$ graph

Subscripts

ρ environment

Bibliography

[1] Donald E. Knuth. *The TEX Book*. Addison-Wesley Professional, 1986.

Acknowledgements

I would like to thank ...