Project Assessment: Reconstruction of "Communicating Without Errors" in LaTeX

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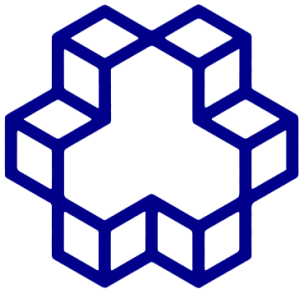

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April 4, 2024

1 Introduction

This report documents our meticulous effort in faithfully reconstructing the chapter titled "Communicating Without Errors" from the esteemed book "Proofs from THE BOOK" in LaTeX. Our task involved transcribing each word, equation, and illustration from the original text to the LaTeX format, ensuring an accurate representation of the chapter's content.

2 Objectives

- **Resemblance:**

  We aimed to get as close as possible to achieving full similarity to the original manuscript. This resulted in us having to strive for correct margin items, equations and detailed stylization of each environment.

- **Collaboration:**

  The Chapter "Communicating without errors" encompasses ten pages of the book. Therefore it was agreed upon by the collaborators to each work on five consecutive pages of the chapter. While having in mind the overall scheme and writing style, basically setting a project standard among collaborators.

- **Coordination:**

  Since the active involvement timeframe of each contributor spanned more than 10 days, solid means of project coordination were put in place from the start to minimize inefficiency. Namely the GitHub page for the project.

3 Approach & Execution

In the beginning the initial tasks were defined for each contributor. The first five pages under the term "firstpart" were assigned to Emad Pourhassani, in the same manner the second five pages, "secondpart", to Afarin Akhoundi.
In the beginning each teammate strived to make a standalone file that compiled smoothly; to be merged in the end to create a final, complete document. The challenges faced with after simply rewriting these documents were mainly:

1. Configuration and Visual formation of different environments:
   We devoted significant time and effort to carefully develop and refine the different settings. Detailed Configuration is present in the "preambles.tex" file.

2. Margin Images and text.
   The hardest challenge to present itself; It proved to be quite dependant on optimizing options to the "marginnote" package. Images were taken from original book file.

3. Bibliography compilation and style.
   Each entry in the references section was searched on Google Scholar, and the corresponding citation item is available in "refs.bib". The generated "CWE.bbl" is there for convenience, although it can be reproduced. Custom setting was needed for the bibliography section, available to see in "preambles.tex".

4. Mathematical Equations
   Extreme Delicacy went into seamlessly reconstructing each mathematical equation present in the document to be fully equivalent to the way that it is written in the original file.

Summary

firstpart.tex - done by Emad Pourhassani, Proofread by Afarin Akhoundi
secondpart.tex - done by Afarin Akhoundi, Proofread by Emad Pourhassani
CWE.tex - Joint effort in merging the two documents.

4 Project Repository Overview

All Files present on the GitHub Page:
https://www.github.com/xemadp/CWE
After downloading the project files, you can use the git command:

```
git log --follow FILENAME
```

in order to see the contributions made to the file throughout the entire project timeframe.

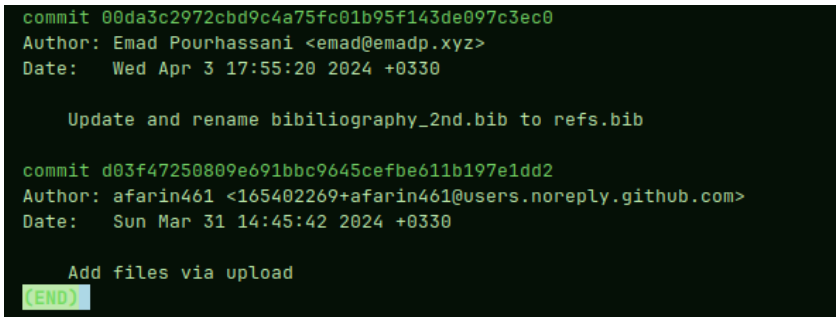

Figure 1: history log of refs.bib, produced by: `git log --follow refs.bib`