Page Layout for a PhD Thesis

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Abstract
The AlbThesisLayout package provides a single alb-thesis LaTeX document class. The class implements a book design for scholarly work in mathematical and computer science. It sets up the page layout and section formatting. It does not provide additional LaTeX commands or environments.

Version Information
Revision
Date

1 Introduction

The `AlbThesisLayout` package implements a book design suitable for a thesis or other large scholarly document. It consists of a single document class `alb-thesis`. It does not provide general purpose commands or environments.

The page layout provides an allocation for margin notes on the outer edge. Several elements exploit this space. Chapter headings are right aligned against the outer edge, so that they access this space. Large floats access the space via the `albInflate` environment of the `AlbFloatTools` package. The page numbers of referenced propositions are displayed in the space, if the reference is one of the prefixed reference commands such as `\albDRef` from the `AlbTheorems` package.

Page numbers are placed in the running headers with the chapter and section information. In twoside mode, the left header contains the page number, chapter title, and chapter number, while the right header contains the section number, section title, and page number. In each case, the space for margin notes accomodates the page number.

2 Suggested Document Structure

The following guidelines reflect the design goals of the `alb-thesis` document class. They are presented in terms of page layout options. Although, all large documents should exploit the `\include` command, this aspect of document structure is not discussed here.

2.1 Page Layout Options

The `alb-thesis` document class attempts to respect page layout options. In particular, you can use of `oneside`, and `twoside` as global options. It makes little sense to declare a large document `notitlepage`. Furthermore, the page layout will not accomodate `twocolumn` or `reversemp`. The page layout accomodates `a4paper` and `letterpaper` page sizes.

Page layout options must be placed in the `documentclass` declaration, and each relevant option should be explicitly declared since the `AlbLaTeXDocumentTemplate` makefile parses document class options. The following content is a typical example of the document class declaration.

```
\documentclass[10pt,a4paper,twoside]{alb-thesis}
```

3 Makefile Targets

Given documents of the `alb-thesis` class are expected to contain an index, it makes good sense to use the makefile from the `AlbLaTeXDocumentTemplate` package. This makefile will detect the existence of index commands and take the appropriate steps. The target `all` is a synonym for `idx`, which generates the final PDF document such that the index references are correct.