

Sample Document using the glossaries Package

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Abstract

This is a sample document illustrating the use of the `glossaries` package. In this example, a new glossary type called `notation` is defined, so that the document can have a separate glossary of terms and index of notation. The index of notation doesn't have associated numbers.

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Glossary

cardinality The number of elements in the specified set. [1](#)

set A collection of distinct objects. [1](#)

Notation

$|\mathcal{S}|$ cardinality of \mathcal{S} . [1](#)

$!$ factorial. [2](#)

\mathcal{S} A set. [1](#)

\mathcal{U} The universal set. [1](#), [2](#)

Chapter 1

Introduction

Sets are denoted by a caligraphic font e.g. \mathcal{S} .
Let \mathcal{U} denote the universal set.
The cardinality of a set \mathcal{S} is denoted $|\mathcal{S}|$.

Chapter 2

Another Chapter

Another mention of the universal set \mathcal{U} .
The factorial symbol: $!$.