

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, list of acronyms and index of notation.

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Glossary

cardinality The number of elements in the specified set. 1

set A collection of distinct objects. 1

Acronyms

AD axiom of determinacy. [1](#), [2](#)

NF new foundations. [1](#), [2](#)

ZFC Zermelo-Fraenkel set theory. [1](#), [2](#)

Notation

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

\emptyset The empty set. [1](#), [2](#)

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

Chapter 1

Introduction

Sets are denoted by a calligraphic font e.g. \mathcal{S} .

The **cardinality** of a set \mathcal{S} is denoted $|\mathcal{S}|$. The empty set is denoted \emptyset .

Here are some acronyms: **new foundations** (NF), **Zermelo-Fraenkel set theory** (ZFC) and **axiom of determinacy** (AD).

Chapter 2

Another Chapter

Another mention of the empty set \emptyset .

Here are the acronyms again: **NF**, **ZFC** and **AD**.