

# 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**.