

# Sample Document using the glossaries Package

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March 19, 2020

## **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.

# Contents

<b>Glossary</b>	ii
<b>Acronyms</b>	iii
<b>Notation</b>	iv
<b>1 Introduction</b>	1
<b>2 Another Chapter</b>	2

# 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**.