

# 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.

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# Glossary

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

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

# Notation

$|\mathcal{S}|$  The **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 calligraphic 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:  $!$ .