

# Group

Kai Prince SFHEA

2025-07-07

## 1 Introduction

**Definition 1.1.** A group is a non-empty set  $\Gamma$  together with a binary operation on  $\Gamma$ , denoted “ $\cdot$ ”, that combines any two elements  $\gamma$  and  $\gamma'$  of  $\Gamma$  to form an element of  $\Gamma$ , denoted  $\gamma \cdot \gamma'$ , such that the following three requirements, known as **group axioms**, are satisfied:

- 1.
- 2.
- 3.

## 2 More Information

You can learn more about controlling the appearance of HTML output here:  
<https://quarto.org/docs/output-formats/html-basics.html>