

An Investigation of Elementary Category Theory

SKELETON PRESENTATION

Oliver Dixon Matthew Drury Ben Brook

Department of Mathematics, University of York

Spring Term, 2023

Presentation Overview

- 1 Introduction: “A Bird’s-Eye View of Mathematics?”
- 2 Theoretical Underpinnings: Axiomatic Constructions
- 3 Category-Theoretic Interpretations of Familiar Structures
- 4 Further Applications: Functional Programming and λ -Calculus

Presentation Overview

- 1 Introduction: “A Bird’s-Eye View of Mathematics?”
- 2 Theoretical Underpinnings: Axiomatic Constructions
- 3 Category-Theoretic Interpretations of Familiar Structures
- 4 Further Applications: Functional Programming and λ -Calculus

Presentation Overview

- 1 Introduction: “A Bird’s-Eye View of Mathematics?”
- 2 Theoretical Underpinnings: Axiomatic Constructions
- 3 **Category-Theoretic Interpretations of Familiar Structures**
- 4 Further Applications: Functional Programming and λ -Calculus

Presentation Overview

- 1 Introduction: “A Bird’s-Eye View of Mathematics?”
- 2 Theoretical Underpinnings: Axiomatic Constructions
- 3 Category-Theoretic Interpretations of Familiar Structures
- 4 Further Applications: Functional Programming and λ -Calculus