

Category Theory Lecture Notes University Of Edinburgh

Emily Riehl Makes Infinity Categories Elementary - Emily Riehl Makes Infinity Categories Elementary 2 hours, 43 minutes - Emily Riehl, one of the world's leading category theorists, shares her vision for making infinity **category theory**, something ...

Transitioning to Homotopy Type Theory **injection and surjection** **Keyboard shortcuts** **Propositions as Types** **Directionality** **Search filters** **Understanding Dependent Types** **What Are Infinity Categories?** **Subtitles and closed captions** **A Sensible Introduction to Category Theory - A Sensible Introduction to Category Theory** 26 minutes - Remember when I used a video with a coconut in the thumbnail to drive a stake through the heart of mathematical structure? **Introduction** **Examples of Categories** **Spherical Videos** **Modeling** **Surjective functions** **Type Constructors Explained** **What is a Category** **Composition** **Pre-Infinity Categories Defined** **Conclusion and Future Directions** **Categories 1 Introduction - Categories 1 Introduction** 24 minutes - This **lecture**, is part of an online **course**, on **Category theory**, This is the introductory **lecture**,, where we give a few examples of ...

Key Concepts of Category Theory **Transitioning to Infinity Category Theory** **Relation** **John Baez | Category Theory in Epidemiology - John Baez | Category Theory in Epidemiology** 1 hour, 5 minutes - African Mathematics Seminar | November 2, 2022 Virtually hosted by the **University**, of Nairobi Visit our webpage: ...

Fundamental Infinity Groupoids **The Role of Category Theory** **General** **The Importance of Abstraction** **The Curry-Howard Correspondence** **Category theory (2022-23): Lecture 1 - Category theory (2022-23): Lecture 1** 1 hour, 27 minutes - Definition of **category**,. Example **categories**,. Isomorphisms and monomorphisms. **morphisms** **The Structure of Infinity Groupoids** **A Dream for the Future** **Tutorial on Category Theory: Part 1 - Pure and Classical - Tutorial on Category Theory: Part 1 - Pure and Classical** 1 hour, 44 minutes - This is a **tutorial**, on **category theory**, for the May 2021 workshop Finding the Right Abstractions hosted by Topos **Institute**,. **Simplicial Type Theory Overview** **Category Theory 6.1: Functors - Category Theory 6.1: Functors** 54 minutes - Functors. **Exploring Infinity Categories** **Crash Course in Homotopy Type Theory** **Introduction to Infinity Category Theory** **Conditions** **alternative definitions** **The Innate Lemma Explained** **Onetoone correspondence** **The Univalence Axiom** **Computer Formalization in Mathematics** **dual categories** **Identity Types and Their Importance** **Category Theory 2.1: Functions, epimorphisms - Category Theory 2.1: Functions, epimorphisms** 46 minutes - Functions, epimorphisms. **The Case for Infinity Categories** **A Crash Course in Category Theory** **Playback** **Injective functions** **Intuitive Introduction to Category Theory - Intuitive Introduction to Category Theory** 6 minutes, 41 seconds - **Category Theory**, offers a different style of thinking about mathematics. I describe how using functions and sets as examples. **Proving the Isomorphism** **Isomorphisms in Infinity Categories** **Intro** **Understanding Left Adjoint Functors** **crucial conclusion !** **Abstraction** **Category theory (2022-23): Lecture 2 - Category theory (2022-23): Lecture 2** 1 hour, 30 minutes - Functors and examples of functors. The opposite **category**,. Covariant and contravariant functors. Product **categories**,. The hom ... **elements and operations** **Hierarchies of Types** **functions are sets ?**

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