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These are lecture notes for an undergraduate seminar covering Category Theory, taught by the author at Northwestern University. The book we roughly follow is “Category Theory in Context” by Emily Riehl. These notes outline the specific approach we’re taking in terms the order in which

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lations in different areas of mathematics, which led them to develop category theory. Category theory is really about building bridges between different areas of mathematics. 1.1 Definitions and examples This is just about setting up the terminology. There will be no theorems in this chapter. Definition 1.1. A category C consists of

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School of Computer Science and Information Technology, University of Nottingham, 2001. M.Barr and C.Wells. Category Theory. Lecture Notes for ESSLLI, 1999. M.Fiore. Rough notes on presheaves. Notes for a postgraduate mini-course, PPS, Universite Paris Diderot – Paris 7, 2001. J.van Oosten. Basic Category Theory. Department of Mathematics ...

Category Theory for Computer Science
These notes were originally developed as lecture notes for a category theory course. They should be well-suited to anyone that wants to learn category theory from scratch and has a scientific mind. There is no need to know advanced mathematics, nor any of the disciplines where category theory is traditionally applied, such as algebraic geometry or theoretical computer science.

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Categories represent abstractions of other mathematical concepts. Many areas of mathematics can be formalised by category theory as categories. Hence category theory uses abstraction to make it possible to state and prove many intricate and subtle mathematical results in these fields in a much simpler way. A basic example of a category is the category of sets, where the objects are sets and the arrows are functions from one set to another.

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