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A 7rst intuitive way to think about a category is the following. 1.1.1 Categories as relations Here is the 7rst intuitive idea of what a category is. Idea. A category is a collection of objects which are related to each other in a consistent way. Let's see what this means by looking at examples. Example1.1.2 (setsandrelations).

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Introduction to Category Theory - The University of Nottingham
Category Theory Lecture Notes for ESSL1 Michael Barr Department of Mathematics and Statistics McGill University Charles Wells Department of Mathematics Case Western Reserve University c Michael Barr and Charles Wells, 1999 Contents Preface 1 Preliminaries 1.1 Graphs 1.2 Homomorphisms of graphs

[1912.10642] Notes on Category Theory with examples from ...
Category Theory Lectures by Peter Johnstone Notes by David Mehrle dfm33@cam.ac.uk Cambridge University Mathematical Tripos Part III Michaelmas 2015 Contents ... Category theory has been around for about half a century now, invented in the 1940's by Eilenberg and MacLane.

Paolo Perrone - MIT
Introduction to Category Theory Graham Hutton, University of Nottingham Overview Category theory is a mathematical approach to the study of algebraic structure that has become an important tool in theoretical computing science, particularly for semantics-based research.

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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 ESSL1, 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.

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Linear Algebra 2 2017/18 Lecture notes: Elements of Number Theory 2017/18: lecture notes and workbook Research. I am interested in the area of categorical algebra. My PhD thesis is on homology in semi-abelian categories, and since then I have also investigated more general settings such as relative Mal'tsev categories and relative Goursat ...

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Lecture notes here. Teaching assistant at the Applied Category Theory Adjoint School, based at the University of Oxford. March-July 2019. For notes and other teaching material see the shared folder (students only). Reading seminar on Applied Category Theory at the Max Planck Institute of Leipzig. Summer semester 2018.

Category Theory - Cornell University
(Lecture Notes for Midlands Graduate School, 2012) Uday S. Reddy The University of Birmingham April 18, 2012. 2. Contents ... Prior to the advent of category theory, set theory was regarded as the canonical type theory. Sets are characterized by their elements.

Julia Goedecke — University of Leicester
Category Theory Lecture Notes University Category Theory Lecture Notes. Category Theory Lecture Notes. Daniele Turi Laboratory for Foundations of Computer Science University of Edinburgh September 1996 (December 2001. Prologue. These notes, developed over a period of six years, were written for an eighteen lectures course in category theory.

Category Theory Lecture Notes University
These notes, developed over a period of six years, were written for an eighteen lectures course in category theory. Although heavily based on Mac Lane's Categories for the Working Mathematician, the course was designed to be self-contained, drawing most of the examples from category theory itself.

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Category theory formalizes mathematical structure and its concepts in terms of a labeled directed graph called a category, whose nodes are called objects, and whose labelled directed edges are called arrows (or morphisms). A category has two basic properties: the ability to compose the arrows associatively, and the existence of an identity arrow for each object.

Category theory - Wikipedia
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Notes on Applied Category Theory - Math3ma
Cambridge University Press, 2019. ISBN: 9781108482295. An online version is freely available on Cornell University's arXiv.org e-Print archive site as well as from OCW as a single file: An Invitation to Applied Category Theory: Seven Sketches in Compositionality (PDF - 2.6MB).

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The content—which assumes knowledge of basic category theory—is an extended version of a talk I gave at the category theory seminar at Johns Hopkins University earlier this year. Initially, I planned to turn those talk notes into a blog post, but one blog post turned into two, and two turned into five, and five turned into 50 pages, and so here we are!

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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. The only ...

Notes on Category Theory - arXiv
Category Theory Lecture Notes by Daniele Turi. Publisher: University of Edinburgh 2001 Number of pages: 61. Description: These notes were written for an eighteen lectures course in category theory. The course was designed to be self-contained, drawing most of the examples from category theory itself.

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