

Category

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An Introduction to the Language of Category Theory - Steven Roman 2017-01-05

This textbook provides an introduction to elementary category theory, with the aim of making what can be a confusing and sometimes overwhelming subject more accessible. In writing about this challenging subject, the author has brought to bear all of the experience he has gained in authoring over 30 books in university-level mathematics. The goal of this book is to present the five major ideas of category theory: categories, functors, natural transformations, universality, and adjoints in as friendly and relaxed a manner as possible while at the same time not sacrificing rigor. These topics are developed in a straightforward, step-by-step manner and are accompanied by numerous examples and exercises, most of which are drawn from abstract algebra. The first chapter of the book introduces the definitions of category and functor and discusses diagrams, duality, initial and terminal objects, special types of morphisms, and some special types of categories, particularly comma categories and hom-set categories. Chapter 2 is devoted to functors and natural transformations, concluding with Yoneda's lemma. Chapter 3 presents the concept of universality and Chapter 4 continues this discussion by exploring cones, limits, and the most common categorical constructions - products, equalizers, pullbacks and exponentials (along with their dual constructions). The chapter concludes with a theorem on the existence of limits. Finally, Chapter 5 covers adjoints and adjunctions. Graduate and advanced undergraduates students in mathematics, computer science, physics, or related fields who need to know or use category theory in their work will find An Introduction to Category Theory to be a concise and accessible resource. It will be particularly useful for those looking for a more elementary treatment of the topic before tackling more advanced texts.

The Categories of Presheaves Containing Any Category of Algebras - Věra Trnková 1975

Created in Darkness by Troubled Americans - Dave Eggers 2004

A selection of humorous pieces from the popular literary magazine includes "Circumstance Under Which I Would Have Sex with Some of My Fellow Jurors" and "The Ten Worst Films of All Time, as Reviewed by Ezra Pound over Italian Radio."

Basic Category Theory - Tom Leinster 2014-07-24

A short introduction ideal for students learning category theory for the first time.

Favorite Foods - Damien Logue 2013-08-01

Working with measurements and data is an essential skill for all math students. Readers are introduced to concepts like describing and comparing measurable attributes and sorting objects into categories. Each skill is explained with the help of accessible text and bright images. Readers learn about classifying and sorting objects by discovering favorite foods. The text addresses standard K.MD.B.3 of the Common Core State Standards for Mathematics. This book should be paired with "What's for Lunch?" (9781477719435) from the InfoMax Math Readers Program to provide the alternative point of view on the same topic.

From Good Goddess to Vestal Virgins - Ariadne Staples 1998

Ariadne Staples provides an arresting and original analysis of the role of women in Roman society, which challenges traditionally held views and provokes further questions. The role of women in Roman culture and society was a paradoxical one. On the one hand they enjoyed social, material and financial independence and on the other hand they were denied basic constitutional rights. Roman history is not short of powerful female figures, such as Agrippina and Livia, yet their power stemmed from their associations with great

men and was not officially recognised. Ariadne Staples' book examines how women in Rome were perceived both by themselves and by men through women's participation in Roman religion, as Roman religious ritual provided the single public arena where women played a significant formal role. From Good Goddess to Vestal Virgins argues that the ritual roles played out by women were vital in defining them sexually and that these sexually defined categories spilled over into other aspects of Roman culture, including political activity. Ariadne Staples provides an arresting and original analysis of the role of women in Roman society, which challenges traditionally held views and provokes further questions.

Constructing "race" and "ethnicity" in America - Dvora Yanow 2003

This work examines what is meant by the terms race and ethnicity and examines why policy makers continue to use them as if they had some scientific standing. It argues that race and ethnicity are socially constructed concepts, not objective, scientifically grounded variables.

Handbook of Categorical Algebra: Volume 1, Basic Category Theory - Francis Borceux 1994-08-26

First of a 3-volume work giving a detailed account of what should be known by all working in, or using category theory. Volume 1 covers basic concepts.

Toward Category-Level Object Recognition - Jean Ponce 2007-01-25

This volume is a post-event proceedings volume and contains selected papers based on presentations given, and vivid discussions held, during two workshops held in Taormina in 2003 and 2004. The 30 thoroughly revised papers presented are organized in the following topical sections: recognition of specific objects, recognition of object categories, recognition of object categories with geometric relations, and joint recognition and segmentation.

Trade Marketing, Category Management, and Shopper Marketing - René Schmutzler 2016-06-15

Simplicial Methods for Higher Categories - Simona Paoli 2019-06-03

This monograph presents a new model of mathematical structures called weak n-categories. These structures find their motivation in a wide range of fields, from algebraic topology to mathematical physics, algebraic geometry and mathematical logic. While strict n-categories are easily defined in terms associative and unital composition operations they are of limited use in applications, which often call for weakened variants of these laws. The author proposes a new approach to this weakening, whose generality arises not from a weakening of such laws but from the very geometric structure of its cells; a geometry dubbed weak globularity. The new model, called weakly globular n-fold categories, is one of the simplest known algebraic structures yielding a model of weak n-categories. The central result is the equivalence of this model to one of the existing models, due to Tamsamani and further studied by Simpson. This theory has intended applications to homotopy theory, mathematical physics and to long-standing open questions in category theory. As the theory is described in elementary terms and the book is largely self-contained, it is accessible to beginning graduate students and to mathematicians from a wide range of disciplines well beyond higher category theory. The new model makes a transparent connection between higher category theory and homotopy theory, rendering it particularly suitable for category theorists and algebraic topologists. Although the results are complex, readers are guided with an intuitive explanation before each concept is introduced, and with diagrams showing the interconnections between the main ideas and results.

Categories and Representation Theory - Hideto Asashiba 2022-09-29

This book gives a self-contained account of applications of category theory to the theory of representations of algebras. Its main focus is on 2-categorical techniques, including 2-categorical covering theory. The book has few prerequisites beyond linear algebra and elementary ring theory, but familiarity with the basics of representations of quivers and of category theory will be helpful. In addition to providing an introduction to category theory, the book develops useful tools such as quivers, adjoints, string diagrams, and tensor products over a small category; gives an exposition of new advances such as a 2-categorical generalization of Cohen-Montgomery duality in pseudo-actions of a group; and develops the moderation level of categories, first proposed by Levy, to avoid the set theoretic paradox in category theory. The book is accessible to advanced undergraduate and graduate students who would like to study the representation theory of algebras, and it contains many exercises. It can be used as the textbook for an introductory course on the category theoretic approach with an emphasis on 2-categories, and as a reference for researchers in algebra interested in derived equivalences and covering theory.

The Structural Transformation of the Public Sphere - Jürgen Habermas 1989

In this work, Habermas retraces the emergence and development of the bourgeois public sphere, focusing on Europe in the early modern period. He examines the writing of political theorists and the specific institutions and social forms in which the public sphere was realized.

Basic Category Theory for Computer Scientists - Benjamin C. Pierce 1991-08-07

Basic Category Theory for Computer Scientists provides a straightforward presentation of the basic constructions and terminology of category theory, including limits, functors, natural transformations, adjoints, and cartesian closed categories. Category theory is a branch of pure mathematics that is becoming an increasingly important tool in theoretical computer science, especially in programming language semantics, domain theory, and concurrency, where it is already a standard language of discourse. Assuming a minimum of mathematical preparation, Basic Category Theory for Computer Scientists provides a straightforward presentation of the basic constructions and terminology of category theory, including limits, functors, natural transformations, adjoints, and cartesian closed categories. Four case studies illustrate applications of category theory to programming language design, semantics, and the solution of recursive domain equations. A brief literature survey offers suggestions for further study in more advanced texts. Contents Tutorial • Applications • Further Reading

Indexed Categories and Their Applications Johnstone 1978-07

Imagining Transgender - David Valentine 2007-08-09

Imagining Transgender is an ethnography of the emergence and institutionalization of transgender as a category of collective identity and political activism. Embraced by activists in the early 1990s to advocate for gender-variant people, the category quickly gained momentum in public health, social service, scholarly, and legislative contexts. Working as a safer-sex activist in Manhattan during the late 1990s, David Valentine conducted ethnographic research among mostly male-to-female transgender-identified people at drag balls, support groups, cross-dresser organizations, clinics, bars, and clubs. However, he found that many of those labeled “transgender” by activists did not know the term or resisted its use. Instead, they self-identified as “gay,” a category of sexual rather than gendered identity and one rejected in turn by the activists who claimed these subjects as transgender. Valentine analyzes the reasons for and potential consequences of this difference, and how social theory is implicated in it. Valentine argues that “transgender” has been adopted so rapidly in the contemporary United States because it clarifies a model of gender and sexuality that has been gaining traction within feminism, psychiatry, and mainstream gay and lesbian politics since the 1970s: a paradigm in which gender and sexuality are distinct arenas of human experience. This distinction and the identity categories based on it erase the experiences of some gender-variant people—particularly poor persons of color—who conceive of gender and sexuality in other terms. While recognizing the important advances transgender has facilitated, Valentine argues that a broad vision of social justice must include, simultaneously, an attentiveness to the politics of language and a recognition of how social theoretical models and broader political economies are embedded in the day-to-day politics of identity.

Competitive Exclusion in Category Captain Arrangements - Alex G Loff 2019-04-23

Category management is a retail practice wherein the products of a retail establishment are divided up into different categories and then managed as if each were a free-standing business. The most popular approach to category management involves outsourcing decisions to a single manufacturer in the category (a.k.a., the “category captain”). Category management and category captain arrangements can benefit competition and consumers where they help to enhance the efficiency and effectiveness of retail decision making. However, given their potential to adversely affect competition and consumers, category captain arrangements have attracted the attention of public policy makers, antitrust enforcement authorities, and marketing and legal scholars. At least two types of competition-related concerns are identified for category captain arrangements. One concern is that a category captain will use its role to coordinate competitor behavior resulting in anticompetitive collusion. A second concern is that a captain will use its role to disadvantage competitors leading to anticompetitive exclusion. This monograph focuses on anticompetitive exclusion. Despite expressed concerns for anticompetitive exclusion involving category captain arrangements research offers surprisingly few insights into the issue. The application of antitrust law to category management also continues to remain relatively undeveloped leaving practitioners with little guidance on what is permissible. Given this state of affairs continued effort is required to better understand the nature and competitive consequences of category management and category captain arrangements. The goal of this monograph is to offer this understanding. Chapter 1 offers an extended introduction to the topic. Chapter 2 describes and elaborates on the nature and practice of category management. Chapter 3 then describes the approach to category management found in category captain arrangements. The key sources of competitive concern for category captain arrangements are identified and elaborated upon in Chapter 4. With the antitrust importance of understanding the power of an organization to harm competition, emphasis and discussion is given to the nature and sources of power and influence held by category captains in Chapter 5. This is followed by Chapter 6 which identifies, organizes and describes the types of exclusionary conduct and practices that may be found in category captain arrangements. Managerial safeguards against competitive exclusion involving category captains are then identified, organized and described in Chapter 7. The effects for competition and consumers that can result from competitive exclusion involving category captains are described in Chapter 8. The findings of empirical research on competitive exclusion in category captain arrangements are then described in Chapter 9. A brief conclusion to the monograph is provided in Chapter 10. The monograph is comprehensively annotated with citations in order to serve as a resource for interested readers.

Reports of the Midwest Category Seminar V - J. W. Gray 1971-01-01

The Structural Transformation of the Public Sphere - Jürgen Habermas 1991-08-28

This is Jürgen Habermas's most concrete historical-sociological book and one of the key contributions to political thought in the postwar period. It will be a revelation to those who have known Habermas only through his theoretical writing to find his later interests in problems of legitimation and communication foreshadowed in this lucid study of the origins, nature, and evolution of public opinion in democratic societies.

Retail Category Management - Deborah C. Fowler 2011-01

Retail Category Management was created to help undergraduate students majoring in retailing, marketing, or supply chain management understand the nature of the retail process. The text starts off with fundamental concepts, such as an explanation of the original eight-step category, before moving to more complex topics, including the latest models and concepts in the field. A final chapter on careers offers practical insights and examples to help students as they consider their career options. The text is structured so that anyone with a retail background can teach from it—even those not versed in category management.

Strategic Sourcing and Category Management - Magnus Carlsson 2019-05-03

How is it possible to sell a kitchen at 30 per cent below market price? Why are hot dogs cheaper in IKEA than in the supermarket? How can IKEA sell the Lack table at half the price it was when it was launched 35 years ago and how can it be achieved with a substantial profit? Strategic Sourcing and Category Management examines how IKEA - and other cost leading companies - use category management to create

advantages with direct and indirect sourcing. With 25 years' experience from IKEA, where he had the responsibility to develop and execute the company's purchasing strategy, author Magnus Carlsson shares his insights on important topics: when category management is profitable and why; how teams repeatedly create value and results; what the main approaches are in different categories; how a company implements category management; the difference between success and failure. In this new edition of Strategic Sourcing and Category Management, Magnus Carlsson has added new themes including examples and references from companies such as Maersk, Carlsberg, P&G and Aldi, illustrating the application of cost leadership that spans far beyond IKEA. Even in IKEA, the cost leadership lessons are not limited to home furnishings as the company is sourcing categories such as food, components, materials, transports and indirect materials, with a total purchasing spend of approx. €7 billion. However, maybe even more importantly, the book illustrates how teams create value by thinking differently and asking the right questions, allowing an understanding that goes beyond mere tools and processes.

Hopf Algebras and Their Generalizations from a Category Theoretical Point of View - Gabriella Böhm 2018-11-01

These lecture notes provide a self-contained introduction to a wide range of generalizations of Hopf algebras. Multiplication of their modules is described by replacing the category of vector spaces with more general monoidal categories, thereby extending the range of applications. Since Sweedler's work in the 1960s, Hopf algebras have earned a noble place in the garden of mathematical structures. Their use is well accepted in fundamental areas such as algebraic geometry, representation theory, algebraic topology, and combinatorics. Now, similar to having moved from groups to groupoids, it is becoming clear that generalizations of Hopf algebras must also be considered. This book offers a unified description of Hopf algebras and their generalizations from a category theoretical point of view. The author applies the theory of liftings to Eilenberg-Moore categories to translate the axioms of each considered variant of a bialgebra (or Hopf algebra) to a bimonad (or Hopf monad) structure on a suitable functor. Covered structures include bialgebroids over arbitrary algebras, in particular weak bialgebras, and bimonoids in duoidal categories, such as bialgebras over commutative rings, semi-Hopf group algebras, small categories, and categories enriched in coalgebras. Graduate students and researchers in algebra and category theory will find this book particularly useful. Including a wide range of illustrative examples, numerous exercises, and completely worked solutions, it is suitable for self-study.

Sets, Logic and Categories - Peter J. Cameron 1999-01-22

Set theory, logic and category theory lie at the foundations of mathematics, and have a dramatic effect on the mathematics that we do, through the Axiom of Choice, Gödel's Theorem, and the Skolem Paradox. But they are also rich mathematical theories in their own right, contributing techniques and results to working mathematicians such as the Compactness Theorem and module categories. The book is aimed at those who know some mathematics and want to know more about its building blocks. Set theory is first treated naively an axiomatic treatment is given after the basics of first-order logic have been introduced. The discussion is supported by a wide range of exercises. The final chapter touches on philosophical issues. The book is supported by a World Wide Web site containing a variety of supplementary material.

Model Categories Mark Hovey 1999

[The book] starts with an account of the definitions, and a development of the homotopy theory of model categories. This is probably the first time in which the important notion of cofibrant generation has appeared in a book, and the consideration of the 2-category of model categories and Quillen adjunctions is another interesting feature. --Bulletin of the London Mathematical Society Model categories are used as a tool for inverting certain maps in a category in a controllable manner. As such, they are useful in diverse areas of mathematics. The list of such areas is continually growing. This book is a comprehensive study of the relationship between a model category and its homotopy category. The author develops the theory of model categories, giving a careful development of the main examples. One highlight of the theory is a proof that the homotopy category of any model category is naturally a closed module over the homotopy category of simplicial sets. Little is required of the reader beyond some category theory and set theory, which makes the book accessible to advanced graduate students. The book begins with the basic theory of model categories and proceeds to a careful exposition of the main examples, using the theory of cofibrantly

generated model categories. It then develops the general theory more fully, showing in particular that the homotopy category of any model category is a module over the homotopy category of simplicial sets, in an appropriate sense. This leads to a simplification and generalization of the loop and suspension functors in the homotopy category of a pointed model category. The book concludes with a discussion of the stable case, where the homotopy category is triangulated in a strong sense and has a set of small weak generators.

Kierkegaard's Category of Repetition - Niels Nymann Eriksen 2000-01-01

In der Geschichte der Kierkegaard-Rezeption haben die pseudonymen Werke stets im Mittelpunkt der Forschung gestanden. Der vorliegende Band des Yearbook widmet sich nun auch der vernachlässigten Seite des Kierkegaardschen Werkes. In seinem Zentrum stehen die erbaulichen Reden von 1843-44 sowie die Drei Reden bei gedachten Gelegenheiten von 1845, die unter literaturwissenschaftlicher, philosophischer, theologischer und rezeptionsgeschichtlicher Perspektive betrachtet werden.

Management Guidelines for IUCN Category V Protected Areas - Adrian Phillips 2002

Protected Landscapes (IUCN Protected Area Category V) are lived-in working landscapes. In the past, there has been a tendency to see them as a rather Eurocentric approach to protected areas but increasingly the category is being designated in other parts of the world, including in a number of developing countries. The Guidelines include sections on the background and on the planning of such areas, and chapters on the principles, policies, process and the means for their management. The text includes more than twenty case studies from more than fifteen countries in every region of the world.

Lectures on Tensor Categories and Modular Functors Dr. J. Bakalov 2001

This book gives an exposition of the relations among the following three topics: monoidal tensor categories (such as a category of representations of a quantum group), 3-dimensional topological quantum field theory, and 2-dimensional modular functors (which naturally arise in 2-dimensional conformal field theory). The following examples are discussed in detail: the category of representations of a quantum group at a root of unity and the Wess-Zumino-Witten modular functor. The idea that these topics are related first appeared in the physics literature in the study of quantum field theory. Pioneering works of Witten and Moore-Seiberg triggered an avalanche of papers, both physical and mathematical, exploring various aspects of these relations. Upon preparing to lecture on the topic at MIT, however, the authors discovered that the existing literature was difficult and that there were gaps to fill. The text is wholly expository and finely succinct. It gathers results, fills existing gaps, and simplifies some proofs. The book makes an important addition to the existing literature on the topic. It would be suitable as a course text at the advanced-graduate level.

Category Theory Steve Awodey 2010-06-17

A comprehensive reference to category theory for students and researchers in mathematics, computer science, logic, cognitive science, linguistics, and philosophy. Useful for self-study and as a course text, the book includes all basic definitions and theorems (with full proofs), as well as numerous examples and exercises.

From Categories to Homotopy Theory - Birgit Richter 2020-04-16

Bridge the gap between category theory and its applications in homotopy theory with this guide for graduate students and researchers.

And the Category Is... - Ricky Tucker 2022-01-25

An Electric Literature "Most Anticipated LGBTQ+ Book of 2022" Selection A love letter to the legendary Black and Latinx LGBTQ underground subculture, uncovering its abundant legacy and influence in popular culture. What is Ballroom? Not a song, a documentary, a catchphrase, a TV show, or an individual pop star. It is an underground subculture founded over a century ago by LGBTQ African American and Latino men and women of Harlem. Arts-based and intersectional, it transcends identity, acting as a fearless response to the systemic marginalization of minority populations. Ricky Tucker pulls from his years as a close friend of the community to reveal the complex cultural makeup and ongoing relevance of house and Ballroom, a space where trans lives are respected and applauded, and queer youth are able to find family and acceptance. With each chapter framed as a "category" (Vogue, Realness, Body, et al.), *And the Category Is . . .* offers an impressionistic point of entry into this subculture, its deeply integrated history, and how it's

been appropriated for mainstream audiences. Each category features an exclusive interview with fierce LGBTQ/POC Ballroom members—Lee Soulja, Benjamin Ninja, Twiggy Pucci Garçon, and more—whose lives, work, and activism drive home that very category. At the height of public intrigue and awareness about Ballroom, thanks to TV shows like FX's Pose, Tucker's compelling narratives help us understand its relevance in pop culture, dance, public policy with regard to queer communities, and so much more. Welcome to the norm-defying realness of Ballroom.

Retail Category Management - Alexander Hübner 2011-08-31

Retail shelf management means cost-efficiently aligning retail operations with consumer demand. As consumers expect high product availability and low prices, and retailers are constantly increasing product variety and striving towards high service levels, the complexity of managing retail business and its operations is growing enormously. Retailers need to match consumer demand with shelf supply by balancing variety (number of products) and service levels (number of items of a product), and by optimizing demand and profit through carefully calibrated prices. As a result the core strategic decisions a retailer must make involve assortment sizes, shelf space assignment and pricing levels. Rigorous quantitative methods have emerged as the most promising solution to this problem. The individual chapters in this book therefore focus on three areas: (1) combining assortment and shelf space planning, (2) providing efficient decision support systems for practically relevant problem sizes, and (3) integrating inventory and price optimization into shelf management.

From Categories to Categorization - Rodolphe Durrand 2017-03-28

This volume brings together some of the world's leading scholars of market categorization. Together, their contributions depict categorization as both a cognitive and a social process, tightly connected to actors involved, their specific acts, the entity being categorized, and the context and timing which inform these activities.

From a Geometrical Point of View - Jean-Pierre Marquis 2010-10-28

From a Geometrical Point of View explores historical and philosophical aspects of category theory, trying therewith to expose its significance in the mathematical landscape. The main thesis is that Klein's Erlangen program in geometry is in fact a particular instance of a general and broad phenomenon revealed by category theory. The volume starts with Eilenberg and Mac Lane's work in the early 1940's and follows the major developments of the theory from this perspective. Particular attention is paid to the philosophical elements involved in this development. The book ends with a presentation of categorical logic, some of its results and its significance in the foundations of mathematics. From a Geometrical Point of View aims to provide its readers with a conceptual perspective on category theory and categorical logic, in order to gain insight into their role and nature in contemporary mathematics. It should be of interest to mathematicians, logicians, philosophers of mathematics and science in general, historians of contemporary mathematics, physicists and computer scientists.

Lead the Category! - Stan Berenbaum 2009

What are the secrets of franchising and business success? And how do you become a category leader? This book contains winning strategies, practical thoughts and easy to implement techniques on becoming the leader in your category. Valuable information about... ● The problem with your mission statement ● Why transparency is not your goal ● What "jail breaks" have to do with your franchise relationship ● The three rules of employment ● The sure-fire rapid advancement strategy ● Why you should be concerned if you are taking care of your numbers ● The characteristics of great category leaders ● The best definition of franchising ● Why you should forget trust, sort of ● Why (+1) + (-1) does not equal 0 ● What empty airline seats have to do with your business ● What to do if your franchisees have formed an independent franchise association ● The franchise convention success formula Learn the secrets of franchising and business success and Lead the Category!

Card Sorting - Donna Spencer 2009

Card sorting helps us understand how people think about content and categories. In this book, Donna Spencer describes how to plan and run a card sort, then analyse the results and apply the outcomes to your project.

Category 7 - Bill Evans 2007-07-10

A Category 4 hurricane, with winds of up to 155 miles per hour, tears roofs off buildings, smashes windows and doors, and can send floodwaters up to the second floor. Evacuation is suggested for up to six miles inland. Hurricane Katrina was a Category 4 when she made landfall. Hurricane Simone is a Category 7—the biggest, strongest storm in recorded history. When she hits New York City, skyscrapers will fall. Subways and tunnels will flood. Lower Manhattan and much of Queens and Brooklyn will disappear under more than thirty feet of water. All along the Eastern Seaboard, towns and cities are being evacuated as wind-driven rain lashes the coast and storm surges crash through seawalls. Roads are packed with fleeing motorists whose cars are jammed with every personal possession that can be crammed in, plus family members, friends, and beloved pets. A huge natural disaster is brewing in the Atlantic. Except that Simone isn't natural. She's the product of rogue weather science being wielded by billionaire Carter Thompson as part of a personal vendetta against US President Winslow Benson. Once Carter wanted to bring rain to the desert and feed the starving peoples of the planet. Now he wants to show Benson—and the rest of the world—just how powerful wind and water can be. If technology created Simone, perhaps technology can stop her. It's up to Kate Sherman, once a member of Carter's weather team; and Jake Baxter, a weatherman for the CIA, to try, using a secret US Navy weapon. The catch? It has to be deployed inside the hurricane. At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

Beyond Category - John Edward Hasse 1995-03-22

One of the twentieth century's greatest composers, Duke Ellington (1899–1974) led a fascinating life. Beyond Category, the first biography to draw on the vast Duke Ellington archives at the Smithsonian Institution, recounts his remarkable career: his childhood in Washington, D.C., and his musical apprenticeship in Harlem; his long engagement at the Cotton Club; the challenging years of the depression; his tours to Europe and into America's deep South, where he helped lower racial barriers; the postwar years when television and bebop threatened to eclipse the big bands; Ellington's own triumphant comeback at the 1956 Newport Jazz Festival; his collaborations with Billy Strayhorn, Johnny Hodges, and Ella Fitzgerald; as well as five decades of hits and masterpieces that constantly broke new ground. The art of Duke Ellington was a musical expression of the African-American experience, in all its pain, pride, and glory. He composed his music as he composed his life—with flair, passion, and individuality—and no book reveals the man and his artistic evolution more brilliantly than Beyond Category.

Category Theory for the Sciences - David I. Spivak 2014-10-10

An introduction to category theory as a rigorous, flexible, and coherent modeling language that can be used across the sciences. Category theory was invented in the 1940s to unify and synthesize different areas in mathematics, and it has proven remarkably successful in enabling powerful communication between disparate fields and subfields within mathematics. This book shows that category theory can be useful outside of mathematics as a rigorous, flexible, and coherent modeling language throughout the sciences. Information is inherently dynamic; the same ideas can be organized and reorganized in countless ways, and the ability to translate between such organizational structures is becoming increasingly important in the sciences. Category theory offers a unifying framework for information modeling that can facilitate the translation of knowledge between disciplines. Written in an engaging and straightforward style, and assuming little background in mathematics, the book is rigorous but accessible to non-mathematicians. Using databases as an entry to category theory, it begins with sets and functions, then introduces the reader to notions that are fundamental in mathematics: monoids, groups, orders, and graphs—categories in disguise. After explaining the “big three” concepts of category theory—categories, functors, and natural transformations—the book covers other topics, including limits, colimits, functor categories, sheaves, monads, and operads. The book explains category theory by examples and exercises rather than focusing on theorems and proofs. It includes more than 300 exercises, with solutions. Category Theory for the Sciences is intended to create a bridge between the vast array of mathematical concepts used by mathematicians and the models and frameworks of such scientific disciplines as computation, neuroscience, and physics.

Category Creation Anthony Kennada 2019-10-08

Lessons from HubSpot, Salesforce, Gainsight and Other Iconic Brands "The Uber of this" "The Salesforce of that" "It's like Instagram, but for..." There is no such thing as an original idea anymore - right? Actually, it

turns out that the world's most innovative companies have created so much more than just brand new products and technology. They've created entirely new market categories. The challenge is that successfully building new categories requires a perfect storm of luck and timing. Or does it? *Category Creation* is the first and only book on the topic written by executives and marketers actively building new categories. It explains how category creation has become the Holy Grail of marketing, and more importantly, how it can be planned and orchestrated. It's not about luck. You can use the same tactics that other category-defining companies have used to delight customers, employees, and investors. There's no better strategy that results in faster growth and higher valuations for the company on top. Author Anthony Kennada, former Chief Marketing Officer at Gainsight, explains how he led Gainsight in creating the "customer success" category, and shares success stories from fellow category-creators like Salesforce, HubSpot and others. It requires much more than just having the best product. You have to start and grow a conversation that doesn't yet exist, positioning a newly discovered problem in addition to your company and product offerings. The book explains the 7 key principles of category creation, including the importance of

creating a community of early adopters who will rally around the problem they all share—especially if someone will lead them. · Identify the "go" and "no go" signals for category creation in your business · Activate customers and influencers as brand ambassadors · Grow a community by investing in live events and experiences · Prove the impact of category creation investments on growth, customer success, and company culture Written for entrepreneurs, marketers, and executives from startups to large enterprises, *Category Creation* is the exclusive playbook for building a category defining brand in the modern economy.

Tool and Object - Ralph Krömer 2007-06-25

Category theory is a general mathematical theory of structures and of structures of structures. It occupied a central position in contemporary mathematics as well as computer science. This book describes the history of category theory whereby illuminating its symbiotic relationship to algebraic topology, homological algebra, algebraic geometry and mathematical logic and elaboratively develops the connections with the epistemological significance.