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- the process of the state of the state of the process of the state of the process of the state of its internal affairs and pressum nerthroughthouse of methods have feethour the supertal past. Accordingly, of sovereighty bait the pareof as own terrhory, and (2) power applied by bothing edunary continues and referring in formation of a public life 1. Georgia has stepped fifto the 29 msterfurty with two interferated total state hootegrotiens: (1) de facto loss
- the neighbors, thus placing the bilateral relations in a mutually beneficial channel. Being in the captivity of that in the near future the Russian Federation shifts towards modern democratic standards of relations with Caucasus without causing harm to the statehood of Georgia and its national security. hegemonic ambitions, Russian Federation is unable to formulate and protect its own interests in the South 2. Resolution of these issues cannot be viewed as Georgia's internal problem only. It is highly unexpected
- and the Russian Federation. Being a part of this system is crucial for Georgia not for gaining advantageous Federation shall take into consideration, remains as a real means for normalizing relations between Georgia relations with the Russian Federation. Consequently, Georgia's affiliation in NATO is a precondition for forming the equal and neighborly interstate power with respect to Russia, but for neutralizing the actions directed against Hence, Georgia's affiliation in such an international system, the joint forces of which the Georgian statehood.
- stability and security in the geopolitically important region of the South Caucasus. By affiliating in NATO, provide security to the country and its entire population. At the same time, this shall contribute to achieving affiliation in NATO is not directed against anyone, does not create danger for anyone, but rather aims to choice clear to the maximum and acceptable to the possible extents. Georgia should convince all that its and partners, and de-facto authorities and general public of separatist regions in order to make its strategic work under the intensive dialogue regime not only with NATO, but the Russian Federation, other neighbors development of the scenario, reaching this goal shall require several years. In the meantime, Georgia should 4. Affiliation in NATO is not a matter of days or months. Even in the event of the most advantageous South Caucasus region. Georgia should become a more trustworthy, predictable, and perspective partner for its direct neighbors in the
- membership criteria and the establishment and perception of European liberal and democratic standards in the 5. On the way to NATO Georgia should also develop maximum cooperation and integration with the Black Sea basin countries in the GUAM and other regional organizational formats. Steady approach to the EU political, economic, and social spheres are the necessary attributes for full-scale and equal membership of the Euro-Atlantic system of security.

- unacceptable to speculate shout Georgia sagfiliation in NATO so that only a part of its territory and population is protected and the problems related to Abkhazia and the former South Ossetian Autonomous District, as well as the IDP population remain unsolved. At the same time, citizens living in Abkhazia and the south of the create put files by simply selecting the print commend from any former South Ossetian Autonomous District should receive clear guarantees that Georgia does not intend to deal with them by means of forceful methods and abusing the NATO factor.

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- beneficial phenomenon Pard its hould be achieved through multually acceptable ways and means hourd alms given by the NATO member states to Georgia. Placing Georgia in the NATO isphere is an antitually without violating his ownestrategic interests. Becominged intermeter or NATO should not benepprehended as 7. By means of affiniting in NAYO, Georgia should restore the de-facto sovereighty his on the part of its territory and not entirely part of the part of the territory and not entirely part the sovereignty is except of the Russian federation votorifier. Entity player. Georgia should be leady for full contribution to the realization of NATO abeliable confidence continuous interests.

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- with the Russian Federation, including acting and making statements that demean the dignity of its leaders or it is equally unacceptable to make recessions that further use from the goal and grufficially aggravate relations 8. Georgians aspiration to the ATO rist accompanied by Aussia's afteroptises simpede this process: the vertheless, fellow citizens
- non-intervention of borders, which would automatically ensure safety for Russia's southern borders as well. not intend to participate in Russia's exclusion from the region, but intends to achieve its own security and Russian Federation to accept mutually beneficial initiatives and show to the Russian Federation that it does dignified, solid, and trustworthy. Parallel to leaving CIS and integrating in NATO, Georgia should offer the 9. Integration in NATO makes Georgia a stronger state; and a stronger state should be more responsible,
- the region at this historical stage, then it will be doomed for eternal battle for survival and not the respectful that if Georgia loses the unique chance and once again stays alone with Russia and other influential states of integration in NATO. Unfortunately Saakashvili's government is still unable to realize this fact. It is obvious only one of the factors promoting economic upheaval, human rights, and the development of democracy in his team could create such obstacles on the way to country's integration into NATO. NATO membership is to realize their own interests. Infantilism, non-qualification, and inconsistency of the country's President and and stable partner that fulfills all obligations undertaken, then the Western states shall seek alternative ways interests, in achieving which Georgia also plays a certain role. If the country is unable to act as a trustworthy integration into the Euro-Atlantic area is not altruistic or fed only on democratic ideals; they also pursue their labor for prosperity. 10. Georgia should be rather solid in relations with the Western partners also. Their interest in Georgia's country. Further, the development of democratic institutes and free entrepreneurship should precede
- this postulate (regardless whether they represent government or the opposition) should ensure the solution of ensure the continuity of a relevant political course. Based on the mentioned, all political parties agreeing with the Russian Federation is a long-term strategic geopolitical task and in this context it is absolutely crucial to this task through the joint efforts 11. Finally, it should be stressed that Georgia's integration in NATO and the normalization of relations with

David Usupashvili - Chairman of the Republican Party Koba Davitashvili -Zviad Dzidziguri - Chairman of the Faction "Democratic Front" Chairman of the Conservative Party

internal structure of these objects. To define the product topology without referring to open sets and past-set without referring to objects in terms of their relations to other objects, as given by the morphisms of the respective categories. Thus, the task is to find universal properties that uniquely determine the objects of interest.

Offers a wealth of additional functionality, such as: combining dominions important constructions can be described in a purely categorical way if the category constructions can be described in a purely categorical way if the category innerests in the category of the rest of the category of the described in a purely categorical way if the category of the rest of the rest of the category of the rest of the rest of the category of the rest of the rest of the rest of the category of the rest of the re such a situation is called equivalence of categories, which is given by appropriate functors between two categories. Categorical equivalence has found numerous applications in transformed into theorems about the other category? The major tool one employs to describe considered essentially the same, in the sense that theorems about one category can readily be it is a anatural quastion to task under which conditions can two categories beal signatures ty documents in the popular PDF file format. Its easy-to-use interface help Each category is distinguished by properties that all its objects have in common, such as the perfect of two topologies, yet in the definition of a category, objects are common, such as the perfect of two topologies, yet in the definition of a category, objects are considered atomic; retweet of two topologies, yet in the definition of a category, objects are considered atomic; retweet of two topology within a category of the considered atomic; retweet of two topology within a category of the c se, flexibility in format, and industry-standard security- and all at no co Using the language of category theory, many areas of mathematical study can be categorized. Categories include sets groups and logologies.

Extegories include sets groups and logologies.

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Further concepts and results[edit]

of these topics, the given order can be considered as a guideline for further reading additional important topics are listed below. Although there are strong interrelations between all The definitions of categories and functors provide only the very basics of categorical algebra:

- natural transformations of such functors. The Yoneda lemma is one of the most famous basic results of category theory; it describes representable functors in functor categories The functor category D^c has as objects the functors from C to D and as morphisms the
- category theory, is often obscured in applications and can lead to surprising relationships essentially obtained by "reversing all the arrows". If one statement is true in a category Cthen its dual is true in the dual category C° . This duality, which is transparent at the level of Every statement, theorem, or definition in category theory has a dual which is
- by a universal property; this can be seen as a more abstract and powerful view on universal opposite direction. Such a pair of adjoint functors typically arises from a construction defined Adjoint functors: A functor can be left (or right) adjoint to another functor that maps in the

Higher-dimensional categories [edit]

Main article: Higher category theory

"higher-dimensional processes" another", then higher-dimensional categories allow us to profitably generalize this by considering we consider a morphism between two objects as a "process taking us from one object to functor categories, can be situated into the context of higher-dimensional categories. Briefly, if Many of the above concepts, especially equivalence of categories, adjoint functor pairs, and

these "bimorphisms" both horizontally and vertically, and we require a 2-dimensional "exchange law" to hold, relating the two composition laws. In this context, the standard example is **Cat**, the i.e., processes which allow us to transform one morphism into another. We can then "compose" For example, a (strict) 2-category is a category together with "morphisms between morphisms" 2-category of all (small) categories, and in this example, bimorphisms of morphisms are

EQUISIDE 3 -Category with a single object these affects and large format provides ease of u categories. Bicategories are a weaker notion of 2-dimensional categories in which the some position of morphisms is not strictly associative, but only associative vou professional categories. The casy and associative vou professional quality associative vou professional quality associative vou professional quality associative vou professional quality associative voice and the casy and these are called n-categories. There is even a notion of w-category corresponding to the ordinal number w.

In the case of words are popular by simply selecting the print command from any higher-dimensional categories are part of the broader mathematical field of higher-dimensional addebra, a concept introduced by Ronald Brown. For a conversational introduction to these ideas, set John Bazz, Afrala of Wealth Strings of the saving, fast user switching on xp, set John Bazz, Afrala of Wealth Strings of sizes and large format printing. Pdf995 citriix/Terminal Server, custom page sizes and large format printing. Pdf995 ocuments into dfEdit995 offers stighted by the state of the st toolbar with insertion; Historicalonotespetit works Main article: Timeline of category theory and related mathematics and encryption statio<mark>n</mark>ery and stampanys news gnawapapas booksexsholaatasook phocambersecur PDF onversion citations to reliable sources. Unsourced material may beth word challenged and removed.

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It should be observed first that the whole concept of a category is essentially an auxiliary one; our basic concepts are essentially those of a functor and of a natural transformation [...]



— Samuel Eilenberg and Saunders Mac Lane, General theory of natural equivalences^(s)

natural transformations as part of their work in topology, especially algebraic topology. Their goal was to understand natural transformations. That required defining functors, which required geometric homology to axiomatic homology theory. Eilenberg and Mac Lane later wrote that their work was an important part of the transition from intuitive and In 1942–45, Samuel Eilenberg and Saunders Mac Lane introduced categories, functors, and

relation between structures and the processes that preserve them. achieve this understanding, Eilenberg and Mac Lane proposed an axiomatic formalization of the mathematical structure requires understanding the processes that preserve that structure. the late 1930s in Poland. Eilenberg was Polish, and studied mathematics in Poland in the 1930s Stanislaw Ulam, and some writing on his behalf, have claimed that related ideas were current in Lane's teachers) in formalizing abstract processes; Noether realized that understanding a type of Category theory is also, in some sense, a continuation of the work of Emmy Noether (one of Mac 0

mathematics for semantic flexibility and higher-order logic, came later; it is now applied throughout category theory, an extension of universal algebra having many new features allowing of homological algebra, and later by the axiomatic needs of algebraic geometry. General The subsequent development of category theory was powered first by the computational needs

theory as a foundation of mathematics. A topos can also be considered as a specific type of mathematics. Topos theory is a form of abstract sheaf theory, with geometric origins, and leads have been worked out in fair detail as a basis for, and justification of, constructive category with two additional topos axioms. These foundational applications of category theory to ideas such as pointless topology Certain categories called topoi (singular topos) can even serve as an alternative to axiomatic set

applications in functional programming and domain theory, whereas cartesian closed category is taken as a non-syntactic description of a lambda calculus. At the very least, category theoretic fanguage charites what exactly these related areas have in common (in some abstract sense). The constitution of a lambda calculus of the common (in some abstract sense). The constitution of the common of the common of the constitution see Torexample the book The Topos of Misic, Geometric Logic of Concepts, Theory and th Seategorios togic is bowe a well-defined relations on the theory for intuition is included by with Performance by Gregioos Mazzolas network file saving, fast user switching on XP, മ

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- Timeline of category theory and related mathematics

Notes[edit]

- using category theory very commonly write f; g for $g \circ$ **^** Some authors compose in the opposite order, writing fg or $f \circ g$ for $g \circ f$. Computer scientists
- N ^ Note that a morphism that is both epic and monic is not necessarily an isomorphism! An elementary counterexample: in the category consisting of two objects A and B, the identity morphisms, and a single morphism f from A to B, f is both epic and monic but is not an isomorphism