Monitoring progress and modeling with mathematics

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Monitoring progress and modeling with mathematics

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What are the characteristics of mathematics, especially contemporary mathematics? I will consider five groups of features: applicability and effectiveness, abstraction and generality, simplicity, logical derivation, axiomatic arrangement, precision, correctness, evolution through dialectics. In the article What is Mathematics?, I hypothesized that mathematics stems from Manâ¡¡¡'s attempt to sum up the variety of empirical phenomena it experiences, and that mathematics progresses through the expansion and generalization of these concepts, and the improvement of these models. but what are the characteristics of mathematics, especially contemporary mathematics? I will consider five groups of features: Although each of these features present unique challenges and pedagogical opportunities, here I will focus on the characteristics themselves and leave pedagogical discussion in (ebr05d.) (Pedagogical issues are discussed in the article teaching mathematics «in Tunic») â â â â â â â ââ ââ General applicability is a recurrent feature of mathematics: mathematical truth is to be applicable in fields of application very distinct in phenomena from all over the universe to the other side of the road. Why? What does math and the concepts that it captures to cause all this? mathematics is widely useful because the five phenomena studying are omnipresent in the nature and natural instincts of man to seek explanations, generalize and try to improve the organization of his knowledge. As mathematics has progressively advanced and abstracted its natural concepts, it has increased the multitude of subjects to which such concepts can be successfully applied. â â â â â 2. abstraction and generality The abstraction is the generalization of a myriad of peculiarities. is the identification of the essence of the subject, along with a systematic organization around this essence. with appropriate generalizations, the numerous and various details are organized in a more manageable framework. work within particular areas of detail becomes the area of specialists. In other words, the drive to abstraction is the desire to unify different instances in a single conceptual framework. starting from the abstraction of the concept of number from the specific things that are counted, the mathematical advancement has been repeatedly achieved through the perspicacious abstraction. these abstractions have simplified its arguments, made the otherwise often overwhelming number of details more easily accessible, established the basis for an ordered organization, allowed easier penetration of the subject and the development of more powerful methods. simplicity (research of a single exposure,) complexity (dense exposure) for those looking inside, it is difficult to believe that simplicity isCharacteristic of mathematics. And yet, for those who practice mathematics, simplicity is a strong part. strong. culture. Simplicity in what sense? The mathematician wants the single exposure as simple as possible. With a greater abstraction, a single exposure to the price of an additional terminology and machine can be summarised all the various features in exposure to the upper level. This is significant: even if the mathematician may have found the only desired exposure (so he also claims to have reached simplicity), the reader often has the weight of exploring correctly and conscientious the rather significant terrain that lies behind the abstract language of the higher level exposure. So, I think it is the desire of the mathematician of a single exhibition that leads to the complexity of mathematics, especially in contemporary mathematics. Â Â Â Â 4. Logic design, axiomatic layout The modern features of logical derivability and axiomatic disposition are inherited from the ancient Greek tradition of Thales and Pythagoras and are synthesized in the presentation of the Euclide Geometry (The Elements). It wasn't always like that. The oldest mathematics was solidly empirical, rooted in the perception of man of the number (quantity), of space (configuration), of time and change (transformation). But through a gradual process of experience, abstraction and generalization, concepts developed that definitively separated mathematics from an empirical science to an abstract science, culminating in the axiomatic science that is today. It is this evolution from empirical science to axiomatic science that has established derivability as a basis for mathematics. This does not mean that there is no connection with empirical reality. Quite the opposite. But it means that mathematics is, today, built on abstract concepts whose relationship with real experiences is useful but not essential. These abstractions mean that the mathematical fact is now established without reference to empirical reality. It can certainly be influenced by this reality, as it often happens, but it is not considered mathematical fact until it is established according to the logical requirements of modern mathematics. Why contemporary predilection for axiomatic mathematics? Â Â Why is axiomatic mathematics so strongly favored by modern mathematics? For the same reason it was favored at the time of Euclide: in the presence of empirical difficulties, linguistic paradox or conceptual subtleties, it is an anchor that clarifies more precisely the fundamentals and methods of reasoning that support a mathematical thematic area. Once you have overcome the difficulties of establishing an axiomatic framework, this framework is favoured because it helps to alleviate the burden of many complex, interdependent, justified in various ways and mixed with paradoxes, pitfalls and impossible problems. When new results are notbe taken into account without complicated investigations in the chains of reasoning, it is preferable that Everyone. The value of axiomatic mathematics “offering the axiomatic approach is a way to bring order to a thematic area, but one that requires deciding what is fundamental and what is not, what will be set higher as a “principle” and what will be derived from it. When it is done, however, it sets up a body of knowledge in a form that can be easily presented and expanded. Attractive and effective axiom systems are then developed and refined. Their existence is a sign of the maturity of a mathematical subfield. The proof within the axiomatic framework becomes the hygiene which the Community of working mathematicians adopts in order to make it easier to share jointly in the work of advancing the field. Axiomatic Mathematics As boundaries in the desert in all cases of true mathematical importance, the selection of axioms is a culminating result of intensive investigations into an entire mathematical area teeming with phenomena, and the gain of a deep understanding which results in finally identifying a good way of separating the various phenomena which are have been discovered. So, although axioms may seem trivial, in reality, key axioms outline substantially different structures. In this sense, axioms are boundaries that separate structurally distinct areas from each other, and, together, from the rest of the mathematics of B & B. For example: the inequality of the triangle is a theorem of Euclidean geometry. But it is taken as an axiom for the study of metric spaces. Thus, this axiom constrains much of the Euclidean isometric structure. As such, it becomes a code or litmus test for the â¨¬ Âeuclidean-nothingâ¨¬ of a space. So, from this point of view, non-axiomatic mathematics is the mathematics of discovery. Axiomatic mathematics has been mastered and made easy to learn, present and work within. It could be considered an enclosed area within the wilderness otherwise unmarked by other mathematical and non-mathematical phenomena. You could think of the advancement of axiomatic mathematics as paralleling the way in which humanity slowly but inexorably dominated the wild, cutting down the trees and pushing the truly wild animals further away, while dominating and exploiting the simplest, and creating buildings, and walkways, land. agriculture, granaries and a functioning and productive economy. The same is true of mathematical definitions: they are tempted to tame certain phenomena and identify them as subjects for further taming and as able to be safe, turn off the clutter unaware of the rest of the phenomena, mathematical and non-mathematical. The downside of axiomatic one the down-side of the axiomatic presentation of mathematics is that although deep understanding is usually hidden within axioms, the definitions of mathematical systems have been designed with To make the axioms trivial. Which means that it's all too easy to say simply and move on to the Of the matter. But this would be a mistake. The time spent understanding because the axioms are there, seeing them as theorems in historically preventive investigations, and understood in which phenomena arise and where they do not make time spent this way leads a much deeper understanding of the meaning to take the axioms in First and understand the borders of the subject that the axioms establish. Axiomatic mathematics and density of the presentation is, for those interested in learning mathematics efficiently, the axiomatic presentation is certainly the most efficient both in the presentation and in "deficient density" (most of the flow rate is obtained and the maximum Applicability in fewer steps). But together with Ã ¢ â,¬ "density density" is a conceptual density. The abstract language of axiomatic math can subsume specific examples within a single abstract declaration, examples that can spread through a series of historical sub-disciplines and mathematical objects of interest. Can you follow the test and be able to offer your own (within the Axiomatic Framework), but do you really understand the results deeply? Have you actually scarred your shoulders with individual mathematical animals? Would you be able to recognize the right way to subdue a specific animal if you come across your path under unknown circumstances (ie not presented in the efficient abstract language)? Ã, 5. Precision, correctness, evolution through dialectic the language of mathematics. Over the last three thousand years, humanity has developed sophisticated spoken and written natural languages that are very effective to express a variety of moods, reasons, and meanings. The language in which mathematics has developed no less, and, when mastered, provides a highly efficient and powerful tool for mathematical expression, exploration, reconstruction after exploration and communication. His power (when used well) derives from simultaneously being precise (not ambiguous) and yet concise (no superflourity, nothing useless). But the language of mathematics is no exception to be used badly. Just like any language, it can be used well or bad. Once the correctness of mathematics is separated from empirical tests and moved to a model based on a model or axiomatic, the stone to be correspondence becomes other, carefully selected, declarations that acquire the essential elements of the reality below: definitions, axioms , previously established theorems. The language of mathematics and logical reasoning that use that language, form the daily work experience of mathematics. Symbolic mathematics. In the previous time, mathematics was in fact, completely verbal. Now, after dramatic progress in the symbolism you are In the mercantile period (1500), math can be practiced in an apparent symbolic stenography, without really the need for many words. This, however, is A shorthand. The symbols themselves require a very careful and precise definition and characterization to be used, calculated and allow results to be corrected. The modern language of worker mathematics, unlike exposure or pedagogical mathematics, is symbolic, and is built directly on the propositional logic, the first order preached the logic and the language of sets and functions. The symbolic mode is the one that should be learned from the student and used by mathematics practitioner. It is the most clear, unequivocal language and so precise and therefore more precise. But you could say that it's a language only "only": you don't want to read it. So once one has written ideas carefully in this way, so we generally pass to one of the other two styles: direct or exhibition, are the usual methods of communication with others. Evolution through the mathematical definitions of dialectics, mathematical notions of correctness, the search for the first principles (foundations) in mathematics and the elaboration of areas within mathematics have all proceeded in a dialectical way, alternating between periods of philosophical / fundamental satisfaction Coupled with the active productive work on the one hand, and the discovery of paradoxes coupled with revision periods, reform and critical review on the other. This dialectical process through its history has progressively raised the rigor level of the mathematics of each era. The level of accuracy in mathematics has increased dramatically during the time of Cauchy, since those demanding rigor dominated mathematics. There were simply too many monsters, too many pitfalls â €

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