

algebra base

algebra base is a foundational concept in mathematics that encompasses a variety of topics, including the representation of numbers, operations, and the structures that arise from them. Understanding algebra base is essential for both academic pursuits and practical applications in fields such as engineering, computer science, and economics. This article will explore the significance of algebra base, its various forms, and its applications, providing a comprehensive overview for learners and professionals alike. We will delve into key concepts, such as numerical bases, algebraic structures, and the importance of these ideas in problem-solving and real-world scenarios.

- Introduction to Algebra Base
- Understanding Numerical Bases
- Types of Algebraic Structures
- Applications of Algebra Base
- Conclusion
- FAQ

Introduction to Algebra Base

Algebra base refers to the framework within which mathematical expressions are formulated and manipulated. It serves as the underlying structure for various algebraic systems, allowing mathematicians and students to engage with numbers and operations systematically. The concept of base is particularly important in number representation, where different bases can represent the same quantity in diverse ways. For instance, the decimal system (base 10) is commonly used, but binary (base 2) and hexadecimal (base 16) systems are also prevalent in computing and digital electronics.

Understanding algebra base involves recognizing how these numerical systems function and how they are applied in different contexts. Each base has its own set of digits and rules for carrying out mathematical operations, which can significantly affect the outcomes of calculations. By mastering these principles, individuals can enhance their mathematical skills, paving the way for more advanced studies in algebra and related fields. This section will outline the fundamental concepts of numerical bases, including how to convert between them and their relevance in everyday applications.

Understanding Numerical Bases

Numerical bases are the systems used to express numbers, where each base defines the number of unique digits, including zero, that a counting system uses. The most familiar base is the decimal system, which uses ten digits (0-9). However, there are various other bases used in mathematics, each serving distinct purposes.

Common Numerical Bases

Here are some of the most common numerical bases and their characteristics:

- **Base 2 (Binary):** Utilizes two digits (0 and 1). It is fundamental in computer science, as all digital systems operate using binary code.
- **Base 8 (Octal):** Uses eight digits (0-7). Octal is used in some computing applications and programming languages.
- **Base 10 (Decimal):** The standard system for most everyday counting and arithmetic operations, using ten digits (0-9).
- **Base 16 (Hexadecimal):** Employs sixteen digits (0-9 and A-F). Hexadecimal is prevalent in computer programming and digital electronics, allowing for compact representation of binary data.

Converting Between Bases

Converting numbers from one base to another is a crucial skill in mathematics, especially in fields like computer science. The process involves understanding how to express a number in terms of its base components. Here are the steps to convert from decimal to another base:

1. Divide the decimal number by the base you are converting to.
2. Record the remainder.
3. Repeat the process with the quotient until it reaches zero.
4. The base number is read from the last remainder to the first.

For example, to convert the decimal number 10 to binary (base 2):

1. $10 \div 2 = 5$, remainder 0

2. $5 \div 2 = 2$, remainder 1

3. $2 \div 2 = 1$, remainder 0

4. $1 \div 2 = 0$, remainder 1

Reading the remainders from last to first gives us 1010 in binary.

Types of Algebraic Structures

Beyond numerical bases, algebra base extends to various algebraic structures, which are essential in advanced mathematics. These structures include groups, rings, and fields, each with unique properties and applications.

Groups

A group is a set equipped with a single binary operation that satisfies four fundamental properties: closure, associativity, identity, and invertibility. Groups are instrumental in various mathematical areas, including symmetry and abstraction in algebra.

Rings

A ring is a set that combines two operations, typically addition and multiplication, meeting specific requirements. Rings generalize fields and are crucial in areas such as number theory and algebraic geometry.

Fields

A field is an algebraic structure in which addition, subtraction, multiplication, and division (except by zero) are defined and behave according to certain axioms. Fields are foundational in many areas of mathematics, providing the necessary framework for linear algebra and calculus.

Applications of Algebra Base

The applications of algebra base are extensive and varied, impacting numerous fields. From computer science to physics, understanding algebraic structures and numerical bases is critical for problem-solving and innovation.

Computer Science

In computer science, binary and hexadecimal bases are pivotal. Binary is the basis of all computer operations, while hexadecimal simplifies the representation of binary-coded values. Programmers frequently convert between these bases when working with low-level coding or memory addresses.

Engineering

In engineering, algebra base is applied in algorithms for circuit design and signal processing. Engineers utilize various numerical systems to optimize designs and enhance functionality. Knowledge of algebraic structures aids in algorithm development and analysis.

Cryptography

Algebra base plays a significant role in cryptography, where mathematical principles are employed to secure information. Understanding the properties of different algebraic structures can lead to more effective encryption methods and secure communication protocols.

Conclusion

Algebra base is a vital component of mathematics that encompasses numerical representation, algebraic structures, and their applications across various fields. Mastering these concepts not only enhances mathematical proficiency but also opens doors to advanced studies and career opportunities in technology, engineering, and sciences. By understanding how different numerical bases work and the significance of algebraic structures, individuals can better navigate complex mathematical problems and contribute to innovation in their respective fields.

Q: What is the significance of algebra base in mathematics?

A: The significance of algebra base in mathematics lies in its foundational role in number representation, operations, and the development of various algebraic structures. It enables individuals to perform calculations in different numerical systems and understand complex mathematical concepts, enhancing problem-solving skills.

Q: How do different numerical bases affect

calculations?

A: Different numerical bases affect calculations by changing the digits available and the rules for performing operations. For instance, calculations in binary are limited to two digits (0 and 1), which may require more steps to achieve the same result as in decimal. Understanding these differences is crucial for accurate computations.

Q: Can you explain the process of converting numbers between bases?

A: Converting numbers between bases involves dividing the number by the new base and recording the remainders. This process is repeated until the quotient reaches zero. The base number is then read from the last remainder to the first, allowing for accurate conversion between numerical systems.

Q: What are some real-world applications of algebra base?

A: Real-world applications of algebra base include its use in computer science for binary and hexadecimal representations, in engineering for circuit design, and in cryptography for securing communications. Understanding algebra base is essential for professionals in these fields.

Q: What are groups, rings, and fields in algebra?

A: Groups, rings, and fields are algebraic structures that define sets with specific operations and properties. Groups focus on a single operation, rings combine two operations, and fields provide a comprehensive structure for addition, subtraction, multiplication, and division, each having unique applications in mathematics.

Q: Why is binary important in computer science?

A: Binary is important in computer science because it is the fundamental language of computers, representing all data and instructions. All digital systems function based on binary code, making it essential for programming, data processing, and computer architecture.

Q: How does understanding algebra base benefit students?

A: Understanding algebra base benefits students by enhancing their

mathematical skills, enabling them to tackle complex problems, and preparing them for advanced studies in mathematics, science, and engineering. It also fosters logical thinking and analytical skills.

Q: Is algebra base relevant only to mathematics?

A: No, algebra base is relevant beyond mathematics. It is applied in various fields, including computer science, engineering, economics, and cryptography, demonstrating its importance in both theoretical and practical contexts.

Algebra Base

Find other PDF articles:

<https://ns2.kelisto.es/business-suggest-002/files?trackid=PpB46-3517&title=atm-machine-in-my-business.pdf>

algebra base: *Algebra* Thomas W. Hungerford, 2012-12-06 Algebra fulfills a definite need to provide a self-contained, one volume, graduate level algebra text that is readable by the average graduate student and flexible enough to accomodate a wide variety of instructors and course contents. The guiding philosophical principle throughout the text is that the material should be presented in the maximum usable generality consistent with good pedagogy. Therefore it is essentially self-contained, stresses clarity rather than brevity and contains an unusually large number of illustrative exercises. The book covers major areas of modern algebra, which is a necessity for most mathematics students in sufficient breadth and depth.

algebra base: *Basic Algebra II* Nathan Jacobson, 2009-07-22 This classic text and standard reference comprises all subjects of a first-year graduate-level course, including in-depth coverage of groups and polynomials and extensive use of categories and functors. 1989 edition.

algebra base: *Basic Commutative Algebra* Balwant Singh, 2011-01-19 This textbook, set for a one or two semester course in commutative algebra, provides an introduction to commutative algebra at the postgraduate and research levels. The main prerequisites are familiarity with groups, rings and fields. Proofs are self-contained. The book will be useful to beginners and experienced researchers alike. The material is so arranged that the beginner can learn through self-study or by attending a course. For the experienced researcher, the book may serve to present new perspectives on some well-known results, or as a reference.

algebra base: Basic Algebra I Nathan Jacobson, 2012-12-11 A classic text and standard reference for a generation, this volume covers all undergraduate algebra topics, including groups, rings, modules, Galois theory, polynomials, linear algebra, and associative algebra. 1985 edition.

algebra base: Basic Theory of Algebraic Groups and Lie Algebras G. P. Hochschild, 2012-12-06 The theory of algebraic groups results from the interaction of various basic techniques from field theory, multilinear algebra, commutative ring theory, algebraic geometry and general algebraic representation theory of groups and Lie algebras. It is thus an ideally suitable framework for exhibiting basic algebra in action. To do that is the principal concern of this text. Accordingly, its emphasis is on developing the major general mathematical tools used for gaining control over algebraic groups, rather than on securing the final definitive results, such as the classification of the

simple groups and their irreducible representations. In the same spirit, this exposition has been made entirely self-contained; no detailed knowledge beyond the usual standard material of the first one or two years of graduate study in algebra is pre supposed. The chapter headings should be sufficient indication of the content and organisation of this book. Each chapter begins with a brief announcement of its results and ends with a few notes ranging from supplementary results, amplifications of proofs, examples and counter-examples through exercises to references. The references are intended to be merely suggestions for supplementary reading or indications of original sources, especially in cases where these might not be the expected ones. Algebraic group theory has reached a state of maturity and perfection where it may no longer be necessary to re-iterate an account of its genesis. Of the material to be presented here, including much of the basic support, the major portion is due to Claude Chevalley.

algebra base: Complete School Algebra Herbert Edwin Hawkes, William Arthur Luby, Frank Charles Touton, 1919

algebra base: Basic Math and Pre-Algebra For Dummies Mark Zegarelli, 2007-09-24 Tips for simplifying tricky operations Get the skills you need to solve problems and equations and be ready for algebra class Whether you're a student preparing to take algebra or a parent who wants to brush up on basic math, this fun, friendly guide has the tools you need to get in gear. From positive, negative, and whole numbers to fractions, decimals, and percents, you'll build necessary skills to tackle more advanced topics, such as imaginary numbers, variables, and algebraic equations. * Understand fractions, decimals, and percents * Unravel algebra word problems * Grasp prime numbers, factors, and multiples * Work with graphs and measures * Solve single and multiple variable equations

algebra base: Relation Algebras by Games Robin Hirsch, Ian Hodkinson, 2002-08-15 In part 2, games are introduced, and used to axiomatise various classes of algebras. Part 3 discusses approximations to representability, using bases, relation algebra reducts, and relativised representations. Part 4 presents some constructions of relation algebras, including Monk algebras and the 'rainbow construction', and uses them to show that various classes of representable algebras are non-finitely axiomatisable or even non-elementary. Part 5 shows that the representability problem for finite relation algebras is undecidable, and then in contrast proves some finite base property results. Part 6 contains a condensed summary of the book, and a list of problems. There are more than 400 exercises. P The book is generally self-contained on relation algebras and on games, and introductory text is scattered throughout. Some familiarity with elementary aspects of first-order logic and set theory is assumed, though many of the definitions are given.-

algebra base: Introduction to Boolean Algebras Steven Givant, Paul Halmos, 2008-12-10 This book is an informal though systematic series of lectures on Boolean algebras. It contains background chapters on topology and continuous functions and includes hundreds of exercises as well as a solutions manual.

algebra base: Handbook of Algebra M. Hazewinkel, 2009-07-08 Algebra, as we know it today, consists of many different ideas, concepts and results. A reasonable estimate of the number of these different items would be somewhere between 50,000 and 200,000. Many of these have been named and many more could (and perhaps should) have a name or a convenient designation. Even the nonspecialist is likely to encounter most of these, either somewhere in the literature, disguised as a definition or a theorem or to hear about them and feel the need for more information. If this happens, one should be able to find enough information in this Handbook to judge if it is worthwhile to pursue the quest. In addition to the primary information given in the Handbook, there are references to relevant articles, books or lecture notes to help the reader. An excellent index has been included which is extensive and not limited to definitions, theorems etc. The Handbook of Algebra will publish articles as they are received and thus the reader will find in this third volume articles from twelve different sections. The advantages of this scheme are two-fold: accepted articles will be published quickly and the outline of the Handbook can be allowed to evolve as the various volumes are published. A particularly important function of the Handbook is to provide professional

mathematicians working in an area other than their own with sufficient information on the topic in question if and when it is needed.- Thorough and practical source of information - Provides in-depth coverage of new topics in algebra - Includes references to relevant articles, books and lecture notes

algebra base: Nonassociative Algebra and Its Applications R Costa, Jr., Henrique Guzzo, A. Grichkov, L.A. Peresi, 2019-05-20 A collection of lectures presented at the Fourth International Conference on Nonassociative Algebra and its Applications, held in Sao Paulo, Brazil. Topics in algebra theory include alternative, Bernstein, Jordan, Lie, and Malcev algebras and superalgebras. The volume presents applications to population genetics theory, physics, and more.

algebra base: Topological Algebras, 2011-10-10 This book discusses general topological algebras; space $C(T,F)$ of continuous functions mapping T into F as an algebra only (with pointwise operations); and $C(T,F)$ endowed with compact-open topology as a topological algebra $C(T,F,c)$. It characterizes the maximal ideals and homomorphisms closed maximal ideals and continuous homomorphisms of topological algebras in general and $C(T,F,c)$ in particular. A considerable inroad is made into the properties of $C(T,F,c)$ as a topological vector space. Many of the results about $C(T,F,c)$ serve to illustrate and motivate results about general topological algebras. Attention is restricted to the algebra $C(T,R)$ of real-valued continuous functions and to the pursuit of the maximal ideals and real-valued homomorphisms of such algebras. The chapter presents the correlation of algebraic properties of $C(T,F)$ with purely topological properties of T . The Stone-Cech compactification and the Wallman compactification play an important role in characterizing the maximal ideals of certain topological algebras.

algebra base: Infinite Dimensional Analysis Charalambos D. Aliprantis, Kim C. Border, 2006-08-08 This new edition of The Hitchhiker's Guide has benefited from the comments of many individuals, which have resulted in the addition of some new material, and the reorganization of some of the rest. The most obvious change is the creation of a separate Chapter 7 on convex analysis. Parts of this chapter appeared in elsewhere in the second edition, but much of it is new to the third edition. In particular, there is an expanded discussion of support points of convex sets, and a new section on subgradients of convex functions. There is much more material on the special properties of convex sets and functions in infinite dimensional spaces. There are improvements and additions in almost every chapter. There is more new material than might seem at first glance, thanks to a change in font that reduced the page count about five percent. We owe a huge debt to Valentina Galvani, Daniela Puzzello, and Francesco Rusticci, who were participants in a graduate seminar at Purdue University and whose suggestions led to many improvements, especially in chapters five through eight. We particularly thank Daniela Puzzello for catching uncountably many errors throughout the second edition, and simplifying the statements of several theorems and proofs. In another graduate seminar at Caltech, many improvements and corrections were suggested by Joel Grus, PJ Healy, Kevin Roust, Maggie Penn, and Bryan Rogers.

algebra base: Modular Representation Theory of Finite Groups Michael John Collins, Brian Parshall, Leonard L. Scott, 2001 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences. Each volume is associated with a particular conference, symposium or workshop. These events cover various topics within pure and applied mathematics and provide up-to-date coverage of new developments, methods and applications.

algebra base: Mirror Geometry of Lie Algebras, Lie Groups and Homogeneous Spaces Lev V. Sabinin, 2006-02-21 As K. Nomizu has justly noted [K. Nomizu, 56], Differential Geometry ever will be initiating newer and newer aspects of the theory of Lie groups. This monograph is devoted to just some such aspects of Lie groups and Lie algebras. New differential geometric problems came into being in connection with so called subsymmetric spaces, subsymmetries, and mirrors introduced in our works dating back to 1957 [L.V. Sabinin, 58a,59a,59b]. In addition, the exploration of mirrors and systems of mirrors is of interest in the case of symmetric spaces. Geometrically, the most rich in content there appeared to be the homogeneous Riemannian spaces with systems of mirrors generated by commuting subsymmetries, in particular, so called

tri-symmetric spaces introduced in [L.V. Sabinin, 61b]. As to the concrete geometric problem which needs be solved and which is solved in this monograph, we indicate, for example, the problem of the classification of all tri-symmetric spaces with simple compact groups of motions. Passing from groups and subgroups connected with mirrors and subsymmetries to the corresponding Lie algebras and subalgebras leads to an important new concept of the involutive sum of Lie algebras [L.V. Sabinin, 65]. This concept is directly concerned with unitary symmetry of elementary particles (see [L.V. Sabinin, 95,85] and Appendix 1). The first examples of involutive (even iso-involutive) sums appeared in the exploration of homogeneous Riemannian spaces with and axial symmetry. The consideration of spaces with mirrors [L.V. Sabinin, 59b] again led to iso-involutive sums.

algebra base: *Simple Relation Algebras* Steven Givant, Hajnal Andréka, 2018-01-09 This monograph details several different methods for constructing simple relation algebras, many of which are new with this book. By drawing these seemingly different methods together, all are shown to be aspects of one general approach, for which several applications are given. These tools for constructing and analyzing relation algebras are of particular interest to mathematicians working in logic, algebraic logic, or universal algebra, but will also appeal to philosophers and theoretical computer scientists working in fields that use mathematics. The book is written with a broad audience in mind and features a careful, pedagogical approach; an appendix contains the requisite background material in relation algebras. Over 400 exercises provide ample opportunities to engage with the material, making this a monograph equally appropriate for use in a special topics course or for independent study. Readers interested in pursuing an extended background study of relation algebras will find a comprehensive treatment in author Steven Givant's textbook, *Introduction to Relation Algebras* (Springer, 2017).

algebra base: *Modular Interfaces: Modular Lie Algebras, Quantum Groups, and Lie Superalgebras* Vyjayanthi Chari, 1997 This book is a collection of papers dedicated to Richard E. Block, whose research has been largely devoted to the study of Lie algebras of prime characteristic (specifically the classification of simple Lie algebras). The volume presents proceedings of a conference held at the University of California at Riverside in February 1994 on the occasion of his retirement. The conference focused on the interplay between the theory of Lie algebras of prime characteristic, quantum groups, and Lie superalgebras. Titles in this series are co-published with International Press, Cambridge, MA, USA.

algebra base: *Encyclopaedia of Mathematics, Supplement III* Michiel Hazewinkel, 2007-11-23 This is the third supplementary volume to Kluwer's highly acclaimed twelve-volume *Encyclopaedia of Mathematics*. This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous volumes. These entries are arranged alphabetically throughout and a detailed index is included. This supplementary volume enhances the existing twelve volumes, and together, these thirteen volumes represent the most authoritative, comprehensive and up-to-date *Encyclopaedia of Mathematics* available.

algebra base: *Encyclopaedia of Mathematics* Michiel Hazewinkel, 2013-12-01 This *ENCYCLOPAEDIA OF MATHEMATICS* aims to be a reference work for all parts of mathematics. It is a translation with updates and editorial comments of the Soviet *Mathematical Encyclopaedia* published by 'Soviet Encyclopaedia Publishing House' in five volumes in 1977-1985. The annotated translation consists of ten volumes including a special index volume. There are three kinds of articles in this *ENCYCLOPAEDIA*. First of all there are survey-type articles dealing with the various main directions in mathematics (where a rather fine subdivision has been used). The main requirement for these articles has been that they should give a reasonably complete up-to-date account of the current state of affairs in these areas and that they should be maximally accessible. On the whole, these articles should be understandable to mathematics students in their first specialization years, to graduates from other mathematical areas and, depending on the specific subject, to specialists in other domains of science, engineers and teachers of mathematics. These articles treat their material at a fairly general level and aim to give an idea of the kind of problems, techniques and concepts involved in the area in question. They also contain background and

motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions. The second kind of article, of medium length, contains more detailed concrete problems, results and techniques.

algebra base: Symbolic and Numerical Scientific Computation Franz Winkler, 2003-06-30 This book constitutes the thoroughly refereed post-proceedings of the Second International Conference on Symbolic and Numerical Scientific Computation, SNSC 2001, held in Hagenberg, Austria, in September 2001. The 19 revised full papers presented were carefully selected during two rounds of reviewing and improvement. The papers are organized in topical sections on symbolics and numerics of differential equations, symbolics and numerics in algebra and geometry, and applications in physics and engineering.

Related to algebra base

Algebra - Wikipedia Elementary algebra is the main form of algebra taught in schools. It examines mathematical statements using variables for unspecified values and seeks to determine for which values the

Introduction to Algebra - Math is Fun Algebra is just like a puzzle where we start with something like " $x - 2 = 4$ " and we want to end up with something like " $x = 6$ ". But instead of saying " obviously $x=6$ ", use this neat step-by-step

Algebra 1 | Math | Khan Academy The Algebra 1 course, often taught in the 9th grade, covers Linear equations, inequalities, functions, and graphs; Systems of equations and inequalities; Extension of the concept of a

Algebra - What is Algebra? | Basic Algebra | Definition | Meaning, Algebra deals with Arithmetical operations and formal manipulations to abstract symbols rather than specific numbers. Understand Algebra with Definition, Examples, FAQs, and more

Algebra in Math - Definition, Branches, Basics and Examples This section covers key algebra concepts, including expressions, equations, operations, and methods for solving linear and quadratic equations, along with polynomials and

Algebra | History, Definition, & Facts | Britannica What is algebra? Algebra is the branch of mathematics in which abstract symbols, rather than numbers, are manipulated or operated with arithmetic. For example, $x + y = z$ or $b -$

Algebra Problem Solver - Mathway Free math problem solver answers your algebra homework questions with step-by-step explanations

Algebra - Pauls Online Math Notes Preliminaries - In this chapter we will do a quick review of some topics that are absolutely essential to being successful in an Algebra class. We review exponents (integer and

How to Understand Algebra (with Pictures) - wikiHow Algebra is a system of manipulating numbers and operations to try to solve problems. When you learn algebra, you will learn the rules to follow for solving problems

Algebra Homework Help, Algebra Solvers, Free Math Tutors I quit my day job, in order to work on algebra.com full time. My mission is to make homework more fun and educational, and to help people teach others for free

Algebra - Wikipedia Elementary algebra is the main form of algebra taught in schools. It examines mathematical statements using variables for unspecified values and seeks to determine for which values the

Introduction to Algebra - Math is Fun Algebra is just like a puzzle where we start with something like " $x - 2 = 4$ " and we want to end up with something like " $x = 6$ ". But instead of saying " obviously $x=6$ ", use this neat step-by-step

Algebra 1 | Math | Khan Academy The Algebra 1 course, often taught in the 9th grade, covers Linear equations, inequalities, functions, and graphs; Systems of equations and inequalities; Extension of the concept of a

Algebra - What is Algebra? | Basic Algebra | Definition | Meaning, Algebra deals with

Arithmetical operations and formal manipulations to abstract symbols rather than specific numbers.
Understand Algebra with Definition, Examples, FAQs, and more

Algebra in Math - Definition, Branches, Basics and Examples This section covers key algebra concepts, including expressions, equations, operations, and methods for solving linear and quadratic equations, along with polynomials

Algebra | History, Definition, & Facts | Britannica What is algebra? Algebra is the branch of mathematics in which abstract symbols, rather than numbers, are manipulated or operated with arithmetic. For example, $x + y = z$ or $b -$

Algebra Problem Solver - Mathway Free math problem solver answers your algebra homework questions with step-by-step explanations

Algebra - Pauls Online Math Notes Preliminaries - In this chapter we will do a quick review of some topics that are absolutely essential to being successful in an Algebra class. We review exponents (integer

How to Understand Algebra (with Pictures) - wikiHow Algebra is a system of manipulating numbers and operations to try to solve problems. When you learn algebra, you will learn the rules to follow for solving problems

Algebra Homework Help, Algebra Solvers, Free Math Tutors I quit my day job, in order to work on algebra.com full time. My mission is to make homework more fun and educational, and to help people teach others for free

Related to algebra base

What is algebra? (BBC3y) Algebra is used in Maths when we do not know the exact number(s) in a calculation. In algebra we use letters to represent unknown values or values that can change. Algebra can be used in business when

What is algebra? (BBC3y) Algebra is used in Maths when we do not know the exact number(s) in a calculation. In algebra we use letters to represent unknown values or values that can change. Algebra can be used in business when

Back to Home: <https://ns2.kelisto.es>