

linear algebra done wrong book

linear algebra done wrong book is a unique and compelling resource that challenges traditional approaches to teaching and understanding linear algebra. This book offers fresh perspectives on fundamental concepts, aiming to clarify common misconceptions and provide deeper insight into the subject. Designed for students, educators, and professionals alike, the linear algebra done wrong book emphasizes rigorous proofs, intuitive explanations, and practical applications. It stands out by addressing the pitfalls often encountered in standard textbooks and offering a more conceptual approach to the subject. In this article, an in-depth exploration of the linear algebra done wrong book will be presented, highlighting its key features, benefits, and how it contrasts with traditional linear algebra texts. Additionally, readers will find guidance on how to effectively use the book and what to expect from its content.

- Overview of the Linear Algebra Done Wrong Book
- Key Features and Unique Approach
- Target Audience and Benefits
- Comparison with Traditional Linear Algebra Textbooks
- How to Use the Linear Algebra Done Wrong Book Effectively
- Common Misconceptions Addressed in the Book
- Additional Resources and Support

Overview of the Linear Algebra Done Wrong Book

The linear algebra done wrong book is authored with the intention of revisiting the subject of linear algebra from a fresh perspective. It seeks to rectify the common errors and oversights that appear in many standard textbooks. The book is structured to build a solid foundation in linear algebra, emphasizing clarity, logical progression, and mathematical rigor. It begins with fundamental concepts such as vector spaces, linear transformations, and matrices, before advancing to more complex topics including eigenvalues, eigenvectors, and diagonalization.

Unlike conventional textbooks that often prioritize computational techniques, this book balances theory and practice, enabling readers to develop a true understanding of the underlying principles. The text includes detailed proofs, clear definitions, and numerous examples to illustrate each concept effectively. This approach makes the linear algebra done wrong book an invaluable tool for those seeking a deeper grasp of the subject.

Key Features and Unique Approach

The linear algebra done wrong book distinguishes itself through several key features that enhance learning and comprehension. Its unique approach focuses on correcting misconceptions, presenting proofs in a straightforward manner, and prioritizing conceptual understanding over rote memorization.

Emphasis on Rigorous Proofs

One of the defining characteristics of the book is its commitment to mathematical rigor. Each theorem and proposition is accompanied by clear, concise proofs, allowing readers to follow the logical structure behind each statement. This emphasis on rigorous proofs helps demystify complex ideas and builds a strong theoretical foundation.

Conceptual Clarity

The book prioritizes conceptual clarity by carefully defining terms and using consistent notation throughout. It avoids unnecessary jargon, making difficult topics more accessible. This clarity enables readers to appreciate the beauty and coherence of linear algebra as a mathematical discipline.

Addressing Common Errors

The linear algebra done wrong book explicitly highlights frequent misunderstandings and errors that students encounter. By naming and correcting these mistakes, the book guides readers away from pitfalls that can hinder learning and application.

Practical Examples and Exercises

To reinforce the theoretical content, the book includes numerous practical examples and exercises. These problems encourage active engagement with the material and facilitate mastery of both computational techniques and abstract reasoning.

Target Audience and Benefits

The linear algebra done wrong book is designed to serve a broad spectrum of readers, from undergraduate students to instructors and self-learners. Its approachable yet rigorous style makes it suitable for those new to linear algebra, as well as for those looking to deepen their understanding.

Undergraduate Students

For undergraduate students, the book offers a clear and well-structured path through linear algebra, helping to build confidence in both theoretical and practical aspects. It supports learners in

developing critical thinking skills essential for advanced mathematics and related fields.

Educators and Instructors

Instructors can benefit from the linear algebra done wrong book as a supplementary teaching resource. The book's emphasis on addressing common misconceptions and providing clear proofs can enhance lesson planning and classroom discussions.

Self-Learners and Professionals

Self-learners and professionals seeking to revisit or strengthen their knowledge of linear algebra will find the book's focused explanations and exercises particularly useful. Its balance of theory and application makes it relevant for diverse fields such as computer science, engineering, physics, and economics.

Benefits Summary

- Improved conceptual understanding of linear algebra
- Enhanced ability to follow and construct rigorous proofs
- Recognition and avoidance of common errors
- Practical problem-solving skills
- Support for both academic and professional growth

Comparison with Traditional Linear Algebra Textbooks

The linear algebra done wrong book differentiates itself from traditional textbooks through its pedagogical approach and content organization. While many standard texts emphasize algorithmic procedures and computational techniques, this book focuses on deep comprehension and conceptual accuracy.

Focus on Theory versus Computation

Traditional textbooks often prioritize solving systems of equations, matrix operations, and other computational skills. In contrast, the linear algebra done wrong book balances these skills with a strong theoretical framework, ensuring that readers understand why methods work, not just how.

Correction of Misleading Explanations

Many conventional texts include explanations or examples that inadvertently foster misconceptions. The linear algebra done wrong book identifies and corrects these, providing clearer and more accurate presentations of key ideas.

Structure and Readability

The book's structure is designed to facilitate progressive learning, with each chapter building logically on previous concepts. Its clear language and avoidance of unnecessary complexity enhance readability and reduce cognitive overload.

How to Use the Linear Algebra Done Wrong Book Effectively

Maximizing the benefits of the linear algebra done wrong book requires a strategic approach to study. The following guidelines can help readers engage productively with the material.

Read Actively and Take Notes

Active reading involves working through the proofs, examples, and exercises rather than passively consuming the text. Taking detailed notes and summarizing key points aids retention and understanding.

Work Through Exercises Thoroughly

Exercises in the book are designed to reinforce concepts and challenge the reader's comprehension. Attempting all problems independently before consulting solutions enhances problem-solving skills.

Review and Reflect on Common Errors

Pay special attention to sections addressing common misconceptions. Reflecting on these can prevent misunderstandings and solidify knowledge.

Discuss with Peers or Mentors

Collaborating with others or seeking guidance from instructors can provide additional insights and clarify difficult topics.

Common Misconceptions Addressed in the Book

The linear algebra done wrong book explicitly targets several typical misunderstandings that commonly arise when learning linear algebra. Identifying and correcting these is crucial for building a reliable foundation.

Misinterpretation of Vector Spaces

The book clarifies the abstract nature of vector spaces, emphasizing that vectors need not be arrows in physical space but can represent more general mathematical objects.

Confusion Between Linear Independence and Basis

Detailed explanations distinguish these concepts, ensuring readers understand the conditions and significance of each.

Misuse of Matrix Operations

Common errors related to matrix multiplication, inversion, and transposition are addressed with precise definitions and examples.

Incorrect Understanding of Eigenvalues and Eigenvectors

The book demystifies these concepts by presenting their geometric and algebraic interpretations clearly.

Summary of Misconceptions Addressed

- Abstract definition of vector spaces
- Difference between linear independence and basis
- Proper matrix operation rules
- Correct interpretation of eigenvalues and eigenvectors

Additional Resources and Support

The linear algebra done wrong book encourages the use of supplementary materials to deepen understanding. Numerous online forums, lecture notes, and problem sets can complement the book's content.

Online Communities and Discussions

Academic forums and study groups provide platforms for discussing challenging topics and sharing solutions related to the book's content.

Lecture Videos and Tutorials

Educational videos and tutorials on linear algebra concepts can reinforce the material and offer alternative explanations.

Further Reading Recommendations

For readers interested in expanding their knowledge, the book suggests additional texts and resources that provide broader or more specialized treatments of linear algebra.

Frequently Asked Questions

What is the main focus of the book 'Linear Algebra Done Wrong'?

The book 'Linear Algebra Done Wrong' focuses on providing a clear and rigorous introduction to linear algebra, emphasizing conceptual understanding and proofs rather than computational techniques.

Who is the author of 'Linear Algebra Done Wrong'?

'Linear Algebra Done Wrong' is authored by Sergei Treil, a professor known for his contributions to mathematics education.

Is 'Linear Algebra Done Wrong' suitable for beginners?

Yes, the book is designed for undergraduate students and beginners with some mathematical maturity, particularly those interested in a deeper theoretical understanding of linear algebra.

How does 'Linear Algebra Done Wrong' differ from traditional linear algebra textbooks?

Unlike many traditional textbooks that focus heavily on algorithms and computations, 'Linear Algebra Done Wrong' prioritizes rigorous proofs, abstract concepts, and a more theoretical approach to linear algebra.

Where can I find a free copy of 'Linear Algebra Done Wrong'?

The author has made 'Linear Algebra Done Wrong' freely available online on his official webpage

and other educational platforms, allowing students and educators to access it legally at no cost.

What topics are covered in 'Linear Algebra Done Wrong'?

The book covers fundamental topics such as vector spaces, linear maps, eigenvalues and eigenvectors, inner product spaces, and diagonalization, with an emphasis on proof-based learning.

Additional Resources

1. *Linear Algebra Done Right* by Sheldon Axler

This book offers a clear and insightful approach to linear algebra, focusing on vector spaces and linear maps rather than matrix computations. Axler emphasizes understanding the theory behind the subject, making it ideal for students seeking a deeper conceptual grasp. The text is well-structured, with numerous exercises that challenge and enhance analytical thinking.

2. *Introduction to Linear Algebra* by Gilbert Strang

Strang's book is widely used in undergraduate courses and provides a comprehensive introduction to the subject. It balances computational techniques with theoretical concepts, making it accessible for beginners. The author's engaging writing style and practical examples help readers connect linear algebra to real-world applications.

3. *Linear Algebra and Its Applications* by David C. Lay

This textbook is known for its clear explanations and numerous examples that illustrate the practical applications of linear algebra. Lay's approach is student-friendly, with a strong emphasis on problem-solving skills. It covers essential topics such as matrix theory, vector spaces, and eigenvalues in a structured manner.

4. *Linear Algebra: Step by Step* by Kuldeep Singh

Designed for self-study, this book breaks down complex linear algebra concepts into manageable steps. Singh uses a conversational tone and detailed examples to guide readers through the subject. The book is particularly useful for those who struggle with abstract mathematics and need a more accessible introduction.

5. *Applied Linear Algebra* by Peter J. Olver and Chehrzad Shakiban

This text integrates linear algebra with applications in engineering, computer science, and data analysis. It focuses on computational techniques and real-world problem-solving, making it relevant for applied mathematics students. The authors provide a balance between theory, algorithms, and practical examples.

6. *Matrix Analysis and Applied Linear Algebra* by Carl D. Meyer

Meyer's book is both a textbook and a reference guide, offering thorough coverage of matrix theory and linear algebra applications. It is well-suited for advanced undergraduates and graduate students. The inclusion of numerous exercises and a solutions manual makes it a valuable resource for learning and teaching.

7. *Linear Algebra: A Geometric Approach* by Theodore Shifrin and Malcolm Adams

This book emphasizes the geometric intuition behind linear algebra concepts, helping readers visualize abstract ideas. The authors integrate visual aids and graphical interpretations throughout the text. It is particularly beneficial for students who learn better through visual and spatial

reasoning.

8. *Linear Algebra Problem Book* by Paul R. Halmos

Halmos's problem book is a collection of carefully crafted problems designed to deepen understanding of linear algebra. The problems range from basic to challenging and are accompanied by detailed solutions. It is an excellent supplementary resource for students wanting to test and expand their knowledge.

9. *Linear Algebra: Concepts and Methods* by Martin Anthony and Michele Harvey

This book combines a clear presentation of linear algebra theory with numerous worked examples and exercises. It covers fundamental topics while also introducing more advanced material in an accessible way. The authors focus on developing both computational skills and theoretical understanding.

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linear algebra done wrong book: Linear Algebra Done Wrong Sergei Treil, 2015 Brown University has two introductory linear algebra courses. This text is used in the honors course that emphasizes proofs. The book's title suggests that it is not the typical approach to linear algebra even among those books that are more theoretical. For example, the concept of a basis is treated as more fundamental than the concept of linear independence, and linear transformations are introduced before solving systems of linear equations. Especially noteworthy is the motivation and development of determinants. As the author states in the preface: I spent a lot of time presenting a motivation for the determinant, and only much later give formal definitions. Determinants are introduced as a way to compute volumes. It is shown that if we allow signed volumes, make the determinant linear in each column? and assume some very natural properties, then we do not have any choice and arrive at the classical definition of the determinant. Table of Contents Basic notions Systems of linear equations Determinants Introduction to spectral theory (eigenvalues and eigenvectors) Inner product spaces Structure of operators in inner product spaces Bilinear and quadratic forms Dual spaces and tensors Advanced spectral theory.

linear algebra done wrong book: Linear Algebra Done Terribly Wrong Mason Soun, 2015

linear algebra done wrong book: Linear Algebra: Theory and Applications Kenneth Kuttler, 2012-01-29 This is a book on linear algebra and matrix theory. While it is self contained, it will work best for those who have already had some exposure to linear algebra. It is also assumed that the reader has had calculus. Some optional topics require more analysis than this, however. I think that the subject of linear algebra is likely the most significant topic discussed in undergraduate mathematics courses. Part of the reason for this is its usefulness in unifying so many different topics. Linear algebra is essential in analysis, applied math, and even in theoretical mathematics. This is the point of view of this book, more than a presentation of linear algebra for its own sake. This is why there are numerous applications, some fairly unusual.

linear algebra done wrong book: Linear Algebra I ,

linear algebra done wrong book: Calculus for Cranks Nets Hawk Katz, 2021-01-26 A new

approach to the foundations of single variable calculus, based on the introductory course taught at Caltech. In mathematics, cranks are people who insist they understand something new about math even when the world tells them they are doing it wrong. This introduction to calculus is written with those cranks in mind, based on the foundational course that Nets Katz teaches at Caltech. It emphasizes the practical purposes of the foundations, such as tracking errors in calculations. In addition to covering the basics of single variable calculus, the book outlines the mathematical method—the ability to express oneself with absolute precision and then to use logical proofs to establish that certain statements are universally true. Katz emphasizes conceptual clarity, as well as testing hypotheses and writing complete proofs. The result is a rigorous calculus book of use not only to future mathematicians but also to scientists and engineers.

linear algebra done wrong book: Data Science from Scratch Joel Grus, 2015-04-14 Data science libraries, frameworks, modules, and toolkits are great for doing data science, but they're also a good way to dive into the discipline without actually understanding data science. In this book, you'll learn how many of the most fundamental data science tools and algorithms work by implementing them from scratch. If you have an aptitude for mathematics and some programming skills, author Joel Grus will help you get comfortable with the math and statistics at the core of data science, and with hacking skills you need to get started as a data scientist. Today's messy glut of data holds answers to questions no one's even thought to ask. This book provides you with the know-how to dig those answers out. Get a crash course in Python Learn the basics of linear algebra, statistics, and probability—and understand how and when they're used in data science Collect, explore, clean, munge, and manipulate data Dive into the fundamentals of machine learning Implement models such as k-nearest Neighbors, Naive Bayes, linear and logistic regression, decision trees, neural networks, and clustering Explore recommender systems, natural language processing, network analysis, MapReduce, and databases

linear algebra done wrong book: Essays in Constructive Mathematics Harold M. Edwards, 2007-02-17 He [Kronecker] was, in fact, attempting to describe and to initiate a new branch of mathematics, which would contain both number theory and algebraic geometry as special cases.—Andre Weil [62] This book is about mathematics, not the history or philosophy of mathematics. Still, history and philosophy were prominent among my motives for writing it, and historical and philosophical issues will be major factors in determining whether it wins acceptance. Most mathematicians prefer constructive methods. Given two proofs of the same statement, one constructive and the other not, most will prefer the constructive proof. The real philosophical disagreement over the role of constructions in mathematics is between those—the majority—who believe that to exclude from mathematics all statements that cannot be proved constructively would omit far too much, and those of us who believe, on the contrary, that the most interesting parts of mathematics can be dealt with constructively, and that the greater rigor and precision of mathematics done in that way adds immensely to its value.

linear algebra done wrong book: Problems and Theorems in Linear Algebra Viktor Vasil'evich Prasolov, 1994-06-13 There are a number of very good books available on linear algebra. However, new results in linear algebra appear constantly, as do new, simpler, and better proofs of old results. Many of these results and proofs obtained in the past thirty years are accessible to undergraduate mathematics majors, but are usually ignored by textbooks. In addition, more than a few interesting old results are not covered in many books. In this book, the author provides the basics of linear algebra, with an emphasis on new results and on nonstandard and interesting proofs. The book features about 230 problems with complete solutions. It can serve as a supplementary text for an undergraduate or graduate algebra course.

linear algebra done wrong book: A Journey through the History of Numerical Linear Algebra Claude Brezinski, Gérard Meurant, Michela Redivo-Zaglia, 2022-12-06 This expansive volume describes the history of numerical methods proposed for solving linear algebra problems, from antiquity to the present day. The authors focus on methods for linear systems of equations and eigenvalue problems and describe the interplay between numerical methods and the computing

tools available at the time. The second part of the book consists of 78 biographies of important contributors to the field. A Journey through the History of Numerical Linear Algebra will be of special interest to applied mathematicians, especially researchers in numerical linear algebra, people involved in scientific computing, and historians of mathematics.

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linear algebra done wrong book: *Practical Linear Algebra* Gerald Farin, Dianne Hansford, 2021-10-12 Linear algebra is growing in importance. 3D entertainment, animations in movies and video games are developed using linear algebra. Animated characters are generated using equations straight out of this book. Linear algebra is used to extract knowledge from the massive amounts of data generated from modern technology. The Fourth Edition of this popular text introduces linear algebra in a comprehensive, geometric, and algorithmic way. The authors start with the fundamentals in 2D and 3D, then move on to higher dimensions, expanding on the fundamentals and introducing new topics, which are necessary for many real-life applications and the development of abstract thought. Applications are introduced to motivate topics. The subtitle, A Geometry Toolbox, hints at the book's geometric approach, which is supported by many sketches and figures. Furthermore, the book covers applications of triangles, polygons, conics, and curves. Examples demonstrate each topic in action. This practical approach to a linear algebra course, whether through classroom instruction or self-study, is unique to this book. New to the Fourth Edition: Ten new application sections. A new section on change of basis. This concept now appears in several places. Chapters 14-16 on higher dimensions are notably revised. A deeper look at polynomials in the gallery of spaces. Introduces the QR decomposition and its relevance to least squares. Similarity and diagonalization are given more attention, as are eigenfunctions. A longer thread on least squares, running from orthogonal projections to a solution via SVD and the pseudoinverse. More applications for PCA have been added. More examples, exercises, and more on the kernel and general linear spaces. A list of applications has been added in Appendix A. The book gives instructors the option of tailoring the course for the primary interests of their students: mathematics, engineering, science, computer graphics, and geometric modeling.

linear algebra done wrong book: *Practical Linear Algebra for Data Science* Mike X Cohen, 2022-09-06 If you want to work in any computational or technical field, you need to understand linear algebra. As the study of matrices and operations acting upon them, linear algebra is the mathematical basis of nearly all algorithms and analyses implemented in computers. But the way it's presented in decades-old textbooks is much different from how professionals use linear algebra today to solve real-world modern applications. This practical guide from Mike X Cohen teaches the core concepts of linear algebra as implemented in Python, including how they're used in data science, machine learning, deep learning, computational simulations, and biomedical data processing applications. Armed with knowledge from this book, you'll be able to understand, implement, and adapt myriad modern analysis methods and algorithms. Ideal for practitioners and students using computer technology and algorithms, this book introduces you to: The interpretations and applications of vectors and matrices Matrix arithmetic (various multiplications and transformations) Independence, rank, and inverses Important decompositions used in applied linear algebra (including LU and QR) Eigendecomposition and singular value decomposition Applications including least-squares model fitting and principal components analysis

linear algebra done wrong book: *A Guide to Advanced Linear Algebra* Steven H. Weintraub, 2011-07-07 Linear algebra occupies a central place in modern mathematics. This book provides a rigorous and thorough development of linear algebra at an advanced level, and is directed at graduate students and professional mathematicians. It approaches linear algebra from an algebraic point of view, but its selection of topics is governed not only for their importance in linear algebra itself, but also for their applications throughout mathematics. Students in algebra, analysis, and topology will find much of interest and use to them, and the careful treatment and breadth of subject matter will make this book a valuable reference for mathematicians throughout their professional lives. Topics treated in this book include: vector spaces and linear transformations; dimension

counting and applications; representation of linear transformations by matrices; duality; determinants and their uses; rational and especially Jordan canonical form; bilinear forms; inner product spaces; normal linear transformations and the spectral theorem; and an introduction to matrix groups as Lie groups. The book treats vector spaces in full generality, though it concentrates on the finite dimensional case. Also, it treats vector spaces over arbitrary fields, specializing to algebraically closed fields or to the fields of real and complex numbers as necessary.

linear algebra done wrong book: Linear Algebra Larry E. Knop, 2008-08-28 Linear Algebra: A First Course with Applications explores the fundamental ideas of linear algebra, including vector spaces, subspaces, basis, span, linear independence, linear transformation, eigenvalues, and eigenvectors, as well as a variety of applications, from inventories to graphics to Google's PageRank. Unlike other texts on the subject, thi

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linear algebra done wrong book: Numerical Linear Algebra William Layton, Myron Mike Sussman, 2020-07-14 'The numerical algorithms presented are written in pseudocode and based on MATLAB, a programming and numeric computing platform widely used in STEM fields. Thus, no formal training in computer science or knowledge of any specific programming language is needed to parse the algorithms. Summing up: Recommended.'CHOICE Many students come to numerical linear algebra from science and engineering seeking modern tools and an understanding of how the tools work and their limitations. Often their backgrounds and experience are extensive in applications of numerical methods but limited in abstract mathematics and matrix theory. Often enough it is limited to multivariable calculus, basic differential equations and methods of applied mathematics. This book introduces modern tools of numerical linear algebra based on this background, heavy in applied analysis but light in matrix canonical forms and their algebraic properties. Each topic is presented as algorithmic ideas and through a foundation based on mostly applied analysis. By picking a path through the book appropriate for the level, it has been used for both senior level undergraduates and beginning graduate classes with students from diverse fields and backgrounds.

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linear algebra done wrong book: Linear Algebra in Context Lawrence Susanka, 2025-05-07 This text combines a compact linear algebra course with a serious dip into various physical applications. It may be used as a primary text for a course in linear algebra or as a supplementary text for courses in applied math, scientific computation, mathematical physics, or engineering. The text is divided into two parts. Part 1 comprises a fairly standard presentation of linear algebra. Chapters 1-3 contain the core mathematical concepts typical for an introductory course while Chapter 4 contains numerous short applications. Chapter 5 is a repository of standard facts about matrix factorization and quadratic forms together with the connective tissue of topics needed for a coherent discussion, including the singular value decomposition, the Jordan normal form, Sylvester's law of inertia and the Witt theorems. Part I contains around 300 exercises, found throughout the text, and are an integral part of the presentation. Part 2 features deeper applications. Each of these large applications require no more than linear algebra to discuss, though the style and arrangement of results would be challenging to a beginning student and more appropriate for a second or later

course. Chapter 6 provides an introduction to the discrete Fourier transform, including the fast Fourier algorithm. Chapter 7 is a thorough introduction to isometries and some of the classical groups, and how these groups have come to be important in physics. Chapter 8 is a fairly detailed look at real algebras and completes a presentation of the classical Lie groups and algebras. Chapter 9 is a careful discussion of tensors on a finite-dimensional vector space, finishing with the Hodge Star operator and the Grassmann algebra. Finally, Chapter 10 gives an introduction to classical mechanics including Noether's first theorem and emphasizes how the classical Lie groups, discussed in earlier chapters, become important in this setting. The Chapters of Part 2 are intended to give a sense of the ubiquity, of the indispensable utility, of linear algebra in modern science and mathematics and some feel for way it is actually used in disparate subject areas. Twelve appendices are included. The last seven refer to MATLAB® code which, though not required and rarely mentioned in the text, can be used to augment understanding. For example, fifty-five MATLAB functions implement every tensor operation from Chapter 9. A zipped file of all code is available for download from the author's website.

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2021-10-08 This superb CGP in-depth Student Book covers everything you need to succeed in Edexcel 9-1 GCSE Maths. It's packed with detailed, accessible notes, backed up with fully worked examples. Practice questions and exam-style questions are included throughout, complete with worked solutions. Each section is rounded off with a review exercise - perfect for recapping all of the content pupils have learnt. We've even included handy references to the Edexcel specification and learning objectives so you know exactly which bits of the spec are covered by each part of the book.

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