

Lesson 10 percents as fractions and decimals Document

Lesson 10 Percents as Fractions and Decimals

Understanding how to convert percents into fractions and decimals is a fundamental mathematical skill that enhances one's ability to interpret and work with data in everyday life. This lesson focuses on teaching students how to accurately convert 10% into its equivalent fractional and decimal forms, providing clear explanations, step-by-step procedures, and practical examples. Mastery of this concept not only improves numerical literacy but also lays the groundwork for more advanced topics in mathematics such as ratios, proportions, and percentages.

Introduction to Percentages

Before delving into conversions, it is essential to understand what percentages represent. The term percentage means "per hundred," derived from the Latin per centum. When we say 10%, we mean 10 out of 100 parts.

Key points:

- Percentages are a way to express ratios or fractions in a standardized form.
- 10% indicates a part of a whole divided into 100 equal parts.

Converting 10% to a Fraction

Converting a percentage to a fraction involves expressing the percentage as a ratio of two integers.

Step-by-step process:

- Write the percentage as a fraction over 100: $10\% = \frac{10}{100}$
- Reduce the fraction to its simplest form by dividing numerator and denominator by their greatest common divisor (GCD). GCD of 10 and 100 is 10.
- Divide numerator and denominator by 10: $\frac{10 \div 10}{100 \div 10} = \frac{1}{10}$

Result: $10\% = \frac{1}{10}$

Additional notes: simplifying fractions

- Fractions should always be reduced to their simplest form to facilitate easier calculations.
- For 10%, the simplified fractional form is $\frac{1}{10}$.

Converting 10% to a Decimal

Converting a percentage to a decimal involves dividing the percentage value by 100.

Step-by-step process:

- Start with the percentage value: 10%
- Remove the percent sign and divide by 100: $10 \div 100 = 0.10$

Result: $10\% = 0.10$

Understanding the decimal form

- The decimal 0.10 indicates ten hundredths.
- Decimals are another way to represent parts of a whole, closely related to fractions.

Visualizing the Conversion

To better understand conversions, visual aids can be helpful:

- **Fraction form:** $\frac{1}{10}$ represents one part of ten equal parts.
- **Decimal form:** 0.10 shows the position of the digits in the tenths and hundredths places.
- Both forms are equivalent representations of the same quantity.

Practical Applications of 10% Conversions

Converting 10% into fractions and decimals is useful in various real-life scenarios:

- **Shopping discounts:** Understanding that a 10% discount equals $\frac{1}{10}$ or 0.10 of the original price helps in quick calculations.
- **Financial calculations:** Calculating interest rates, tips, or taxes often involves working with

percentages.

- **Data interpretation:** Percentages are common in statistics and surveys; converting them helps in better understanding data distributions.

Practice Exercises

To solidify understanding, try converting other percentages to fractions and decimals:

- Convert 25% to a fraction and decimal.
- Express 50% as a fraction and decimal.
- Change 75% into a fraction and decimal.
- If a shirt costs \$20 with a 10% discount, what is the discount amount in dollars?

Answers:

- $25\% = \frac{25}{100} = \frac{1}{4}$; decimal = 0.25
- $50\% = \frac{50}{100} = \frac{1}{2}$; decimal = 0.50
- $75\% = \frac{75}{100} = \frac{3}{4}$; decimal = 0.75
- Discount = 10% of \$20 = $0.10 \times \$20 = \2

Common Mistakes to Avoid

While converting percentages to fractions and decimals, be mindful of the following:

- Always simplify fractions to their lowest terms for clarity.
- Remember to divide the percentage by 100 to get the decimal form.
- Be cautious with the decimal placement; 10% is 0.10, not 1.0.
- Ensure that the percentage is correctly interpreted; e.g., 10% is not 10 in decimal form.

Summary

Converting 10% into fractions and decimals is a straightforward process that involves understanding the relationship between parts of a hundred, ratios, and decimal notation. The key takeaways are:

- 10% as a fraction is $\frac{1}{10}$ after simplification.
- 10% as a decimal is 0.10.
- Both forms are essential for different mathematical applications and real-world problem-solving.

- Practice with various percentages to become confident in conversions.

Final Tips for Mastery

- Always start by writing the percentage as a fraction over 100.
- Simplify fractions to their lowest terms for clarity.
- Convert to decimals by dividing the percentage value by 100.
- Use visual aids and real-life examples to reinforce understanding.
- Practice regularly with different percentages to build fluency.

By mastering the conversion of 10% into fractions and decimals, students develop a valuable mathematical skill that will support their understanding of percentages in various contexts, from shopping and finance to data analysis and beyond.

Lesson 10 Percents as Fractions and Decimals

Understanding how to convert percentages into fractions and decimals is a fundamental mathematical skill that enhances our ability to interpret data, solve problems, and make informed decisions. Whether you're a student preparing for exams, a professional analyzing statistical information, or simply a curious mind, grasping the relationship between percentages, fractions, and decimals unlocks a versatile toolkit for mathematical literacy. In this lesson, we'll explore the concept of 10 percent, delve into the methods for converting it to fractions and decimals, and highlight practical applications that demonstrate its significance in everyday life.

What Is 10 Percent?

Before diving into the technical conversions, it's essential to understand what 10 percent actually represents. The term "percent" derives from Latin, meaning "per hundred," and is a way to express a part of a whole as a fraction of 100.

- **Definition:** 10 percent (10%) is a way of expressing 10 out of every 100 parts, or simply 10 per 100.

- **Visual Representation:** Imagine a pie chart divided into 100 equal slices; 10 of those slices are shaded to represent 10%.

- **Mathematical Expression:** 10% can be written as the ratio $10/100$.

Expressed numerically, 10% equates to 0.10 in decimal form and as the fraction 10/100, which can be simplified further.

Converting 10 Percent to Fractions

Understanding how to convert 10% into a fraction involves recognizing its ratio form and simplifying it for ease of use.

Step-by-Step Conversion

- Start with the percent value: 10%.

- Write as a fraction over 100:

\[

$$10\% = \frac{10}{100}$$

\]

- Simplify the fraction: Both numerator and denominator are divisible by 10.

\[

$$\frac{10}{100} = \frac{10 \div 10}{100 \div 10} = \frac{1}{10}$$

\]

Therefore, 10% as a simplified fraction is $\frac{1}{10}$.

Practical Implication

Expressing 10% as a fraction ($\frac{1}{10}$) is particularly useful in algebra, probability, and when working with ratios. It simplifies calculations, especially when dealing with multiple percentages, and aids in visualizing parts of a whole.

Converting 10 Percent to Decimals

Decimal conversion is often more straightforward for computational purposes, especially with digital calculators and computer programs.

Step-by-Step Conversion

- Start with the percentage value: 10%.
- Divide by 100: Since percent means per hundred, divide the value by 100.

\[

$$10\% = \frac{10}{100} = 0.10$$

\]

- Express as a decimal: The result is 0.10.

Alternative Method

- Move the decimal point two places to the left in the percentage number:

\[

$$10\% = 10.0 \rightarrow 0.10$$

\]

This method is quick and effective, especially for mental calculations.

Practical Applications of 10 Percent as Fractions and Decimals

The ability to convert percentages into fractions and decimals is more than an academic exercise; it has real-world applications across various fields.

- Financial Calculations

- Interest Rates: Many interest rates are expressed as percentages. To calculate interest, converting 10% to a decimal (0.10) allows for straightforward multiplication:

\[

$$\text{Interest} = \text{Principal} \times 0.10$$

\]

- Discounts and Sales: When an item is discounted by 10%, understanding that this is $(\frac{1}{10})$ of the original price helps in quick mental calculations.

- Statistical Analysis

- Data Interpretation: Percentages are common in survey results, poll data, and research findings. Converting 10% into fractions or decimals makes it easier to perform calculations or combine data sets.

- Probability: A 10% chance is equivalent to a probability of 0.10, which can be used in probabilistic models and decision-making algorithms.

- Everyday Decision-Making

- Cooking and Recipes: Adjusting ingredient quantities based on percentage reductions (e.g., reducing salt by 10%) can be calculated more precisely when expressed as fractions or decimals.

- Budgeting: When saving 10% of income, representing this as 0.10 simplifies calculations for savings goals and financial planning.

Visualizing 10 Percent

Visualization aids comprehension. Here are some ways to conceptualize 10%:

- Pie Chart: A circle divided into 100 equal slices, with 10 slices shaded.
- Bar Graph: Showing 10 units out of 100 units, emphasizing the proportional part.
- Number Line: Marking 0.0 to 1.0, with 0.10 clearly indicating 10%.

Visual tools reinforce the idea that 10% is a small but significant part of a whole, and converting it into fractions or decimals helps in understanding its magnitude.

Common Misconceptions and Errors

While converting 10% into fractions and decimals is generally straightforward, learners often encounter pitfalls:

- Confusing Percentage with Decimal: Remember that 10% is not 10 in decimal form but 0.10.
- Incorrect Fraction Reduction: Not simplifying $\frac{10}{100}$ to $\frac{1}{10}$ can make calculations more cumbersome.
- Misplacing Decimal Points: Moving the decimal incorrectly can lead to errors, especially when mental math is involved.

To avoid these mistakes, always double-check conversions and practice with various percentages.

Practice Problems to Reinforce Learning

- Convert 10% into a fraction and simplify.
- Express 10% as a decimal.
- Calculate 10% of \$250.

- If a shirt costs \$50, what is the discount amount at 10% off?
- Write 0.10 as a fraction in simplest form.

Answers:

- $\frac{1}{10}$
- 0.10
- \$25
- \$5
- $\frac{1}{10}$

Conclusion

Mastering the conversion of 10 percent into fractions and decimals is a vital step in mathematical literacy that extends beyond classrooms into real-life applications. Recognizing that 10% equals $\frac{1}{10}$ as a fraction and 0.10 as a decimal empowers individuals to perform calculations efficiently, interpret data accurately, and make informed decisions. Whether dealing with financial transactions, statistical data, or everyday tasks, understanding these conversions bridges the gap between abstract numerical concepts and practical understanding. As you continue to explore the world of percentages, remember that these simple conversions serve as foundational tools for a broad spectrum of mathematical and real-world challenges.

Question How do you convert a percentage to a fraction? To convert a percentage to a fraction, write the percentage number over 100 and simplify if possible. For example, 75% becomes $\frac{75}{100}$, which simplifies to $\frac{3}{4}$. What is 25% expressed as a decimal? 25% as a decimal is 0.25 because 25 divided by 100 equals 0.25. How do you convert a decimal to a percentage? To convert a decimal to a percentage, multiply the decimal by 100 and add the '%' sign. For example, 0.6 becomes 60%. What is the fraction form of 60%? 60% as a fraction is $\frac{60}{100}$, which simplifies to $\frac{3}{5}$. Why is it important to understand percents as fractions and decimals? Understanding percents as fractions and decimals helps in solving real-world problems involving discounts, interest rates,

and data analysis more effectively. Convert 0.45 to a percentage and a fraction. 0.45 as a percentage is 45%, and as a fraction, it is $\frac{45}{100}$, which simplifies to $\frac{9}{20}$. If a shirt is discounted by 20%, what fraction of the original price does the customer pay? The customer pays 80% of the original price, which as a fraction is $\frac{80}{100}$ or simplified to $\frac{4}{5}$. How can you verify if a decimal and a percent represent the same value? Convert the decimal to a percentage by multiplying by 100, or convert the percent to a decimal by dividing by 100. If both results are the same, they represent the same value.

Related keywords: percent to fraction, percent to decimal, converting percentages, decimal equivalents of percentages, fraction equivalents of percentages, percentage problems, percentage calculations, decimal to percent, fraction to percent, basic percentage concepts

VISUAL FRACTIONS A BEGINNING FRACTIONS BOOK 2014

visual fractions a beginning fractions book 2014 is an educational resource designed to introduce young learners to the fundamental concepts of fractions through engaging visual methods. Published in 2014, this book seeks to bridge the gap between abstract mathematical ideas and tangible understanding by leveraging visual representations. This approach is especially effective for beginners, as it allows students to grasp complex concepts such as parts of a whole, equivalence, and comparison through intuitive imagery and hands-on activities. In this article, we will explore the significance of visual learning in early fractions education, review the key features of the book, and provide insights into how teachers and parents can maximize its effectiveness.

The Importance of Visual Learning in Early Fractions Education

Why Visuals Matter for Young Learners

Young children often find abstract mathematical concepts challenging to understand. Visual learning strategies help make these concepts concrete by providing concrete representations, such as diagrams, models, and pictures. When it comes to fractions, visual tools enable learners to see the parts of a whole, compare different fractions, and understand the idea of equivalence without getting overwhelmed by numerical complexity.

Research in educational psychology highlights that visual aids stimulate multiple areas of the brain, enhancing memory retention and understanding. For beginners, especially those just starting to explore fractions, visual learning fosters confidence and curiosity, laying a strong foundation for more advanced mathematical concepts.

The Role of Visual Fractions Books

Books like "Visual Fractions: A Beginning Fractions Book 2014" are designed specifically to incorporate visual strategies into the learning process. They typically include:

- Diagrams and illustrations
- Manipulatives and foldables
- Interactive exercises that encourage exploration
- Real-world examples that relate to everyday experiences

By integrating these elements, the book aligns with best practices in early math education, making learning engaging, accessible, and effective.

Overview of "Visual Fractions: A Beginning Fractions Book 2014"

Purpose and Target Audience

This book is primarily aimed at children in the early elementary grades, typically ages 5 to 8, who are just beginning to understand fractions. Its primary goal is to introduce core concepts in a way that is accessible and enjoyable, fostering a positive attitude toward math.

Content Structure and Features

"Visual Fractions: A Beginning Fractions Book 2014" is structured around key themes and concepts:

- Understanding Fractions as Parts of a Whole: Using visual models like circles, rectangles, and strips.
- Fraction Equivalence: Demonstrating how different visual representations can represent the same value.
- Comparing Fractions: Using visual cues such as size and shading to compare fractions easily.
- Adding and Subtracting Fractions: Introducing simple operations with visual aids.
- Real-Life Applications: Connecting fractions to everyday situations like sharing food or dividing objects.

The book employs a variety of engaging activities, including:

- Coloring exercises
- Cut-and-paste fraction models

- Interactive quizzes
- Guided practice sections

Key Features and Educational Strategies

Use of Visual Models

One of the hallmark features of this book is its extensive use of visual models to illustrate fractions. Common models include:

- Pie Charts and Circles: Showing fractions as slices.
- Bar Models and Number Lines: Demonstrating the size and position of fractions.
- Fraction Strips: Physical or drawn strips divided into equal parts to compare fractions visually.

These models help students see the relationships between fractions and develop an intuitive understanding of their sizes and properties.

Progressive Learning Approach

The book follows a scaffolded approach, gradually increasing complexity:

- Starts with simple concepts like halves and quarters.
- Moves to more complex ideas such as equivalent fractions and comparisons.
- Incorporates review sections to reinforce learning.

This progression ensures that learners build confidence and skills step by step, reducing frustration and promoting mastery.

Interactive and Hands-On Activities

Engagement is a key component of effective learning, and this book emphasizes interactive activities:

- Coloring and shading: Helps visualize fractions.
- Cut-and-paste exercises: Allows children to create their own fraction models.
- Games and puzzles: Reinforce understanding through play.
- Real-world scenarios: Contextualize fractions in everyday life, making learning relevant.

How to Maximize Learning with "Visual Fractions: A Beginning Fractions Book 2014"

For Teachers

To make the most of this resource in a classroom:

- Integrate visual models with manipulatives: Use physical fraction strips or circle cutouts alongside the book's activities.
- Encourage discussion: Have students explain their reasoning about fractions using the visual aids.
- Assess understanding through varied methods: Use oral explanations, drawings, or small group activities.
- Supplement with technology: Interactive whiteboards or digital fraction tools can enhance visual engagement.

For Parents

Parents can support early fraction learning at home:

- Use everyday objects: Divide pizzas, sandwiches, or candies to demonstrate fractions.
- Encourage drawing and coloring: Reinforce the visual aspect of fractions.
- Play fraction games: Use puzzles, matching games, and online resources.
- Discuss real-life applications: Talk about sharing and dividing items to contextualize fractions.

Benefits and Limitations

Benefits

- Facilitates concrete understanding of abstract concepts
- Builds a strong visual foundation for future math skills
- Promotes active engagement and enjoyment
- Supports diverse learning styles, especially visual learners
- Prepares students for more advanced fractions and algebra

Limitations

- May require supplementary materials for comprehensive understanding
- Some students might need additional practice with numerical representations
- Effectiveness depends on proper implementation and guidance

Conclusion: The Value of Visual Fractions Books in Early Education

"Visual Fractions: A Beginning Fractions Book 2014" exemplifies the power of visual learning in mastering foundational math concepts. By leveraging illustrations, models, and interactive activities, it demystifies fractions and makes learning accessible and enjoyable for young children. When used thoughtfully by educators and parents, such resources can foster a positive attitude toward math, develop critical thinking skills, and lay the groundwork for future mathematical success. As education continues to evolve, integrating visual strategies remains a proven and effective approach to teaching fractions and other abstract concepts to early learners.

Visual Fractions: A Beginning Fractions Book 2014 ? An Essential Tool for Early Math Learning

Introduction

Visual fractions a beginning fractions book 2014 has carved a niche for itself as an effective educational resource designed to introduce young learners to the foundational concepts of fractions. Published in 2014, this book combines visual aids with simple explanations, aiming to make the often-intimidating world of fractions accessible and engaging for students just beginning their mathematical journey. As educators and parents seek innovative ways to teach fractions, this book offers a compelling blend of clarity, interactivity, and age-appropriate content. In this article, we will explore the features, pedagogical approach, and impact of Visual Fractions: A Beginning Fractions Book 2014, providing a comprehensive overview for educators, parents, and curriculum developers.

The Importance of Visual Learning in Early Math Education

Why Visuals Matter in Teaching Fractions

Learning fractions can be challenging for young students because it involves understanding parts of a whole, ratios, and the relationship between numerator and denominator. Abstract numerical concepts often require concrete representations to deepen understanding.

Visual learning, especially in early education, leverages images, diagrams, and physical models to bridge the gap between concrete experiences and abstract reasoning. For fractions, this means:

- Enhancing Comprehension: Visuals help students see what fractions represent, making the concept more tangible.

- Building Intuition: Repeated exposure to visual representations fosters intuitive understanding rather than rote memorization.
- Supporting Differentiated Learning: Visuals aid diverse learners, including those with learning differences or language barriers.

Visual Fractions: A Beginning Fractions Book 2014 capitalizes on this pedagogical principle by integrating colorful, well-designed images that depict fractions as parts of familiar objects, such as pizzas, pies, and rectangles.

Overview of the Book's Content and Structure

Target Audience and Educational Level

Designed for children in early elementary grades, typically from 1st to 3rd grade, the book introduces the concept of fractions in a straightforward and engaging manner. The language is simple yet precise, and the visual elements are tailored to match the developmental level of young learners.

Core Topics Covered

The book systematically addresses key aspects of fractions, including:

- Understanding what fractions are
- Recognizing fractions as parts of a whole
- Comparing fractions
- Identifying fractions in real-world contexts
- Basic operations involving fractions (addition and subtraction of simple fractions)

Organization of Content

The book is divided into chapters or sections, each focusing on a specific aspect of fractions. For example:

- Introduction to Fractions: Explains the idea of dividing objects into equal parts.
- Representing Fractions Visually: Uses diagrams and models to illustrate fractions.
- Fraction Equivalence and Comparisons: Shows how different fractions can represent the same amount or compare sizes visually.
- Fractions in Daily Life: Connects concepts to real-world examples.
- Practicing Fractions: Includes exercises and activities for reinforcement.

This clear progression from basic to more complex ideas ensures that students build a solid understanding step by step.

Pedagogical Approach and Teaching Strategies

Use of Visual Models

At the heart of Visual Fractions is the emphasis on visual models. These include:

- Pie charts and circles: Divided into equal parts to show fractions like $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$.
- Bar models and rectangles: Used to compare fractions and demonstrate addition or subtraction.
- Real-world objects: Illustrations of pizzas, cakes, and objects split into parts to contextualize fractions.

By illustrating fractions visually, students can better grasp concepts such as numerator and denominator, and how fractions can be equivalent or ordered.

Interactive and Engaging Activities

The book incorporates activities designed to reinforce learning, including:

- Coloring exercises: Students color parts of diagrams to represent fractions.
- Matching games: Matching equivalent fractions or identifying larger/smaller fractions.
- Word problems: Contextual problems that require students to interpret visual data and apply their understanding.

These activities promote active learning and help solidify the concepts through hands-on engagement.

Gradual Complexity and Scaffolded Learning

The book adopts a scaffolded approach, gradually increasing difficulty. Early sections focus on recognizing and representing fractions, while later sections introduce comparison and simple operations. This scaffolding ensures students gain confidence and mastery before progressing.

Advantages of Using Visual Fractions: A Beginning Fractions Book 2014

Accessibility and Clarity

The book's visual-centric approach makes complex concepts approachable for young learners. Bright, colorful illustrations and simple language reduce cognitive overload and encourage curiosity.

Reinforcement of Concepts

Multiple representations—diagrams, real objects, and activities—cater to diverse learning styles. Repetition across different formats helps reinforce understanding and retention.

Bridging to Abstract Thinking

While the book emphasizes concrete visuals, it lays the groundwork for abstract reasoning about fractions, preparing students for more advanced mathematics.

Alignment with Curriculum Standards

The content aligns with common early math standards, ensuring its applicability in classrooms and homeschooling settings.

Limitations and Considerations

While Visual Fractions is highly effective as an introductory resource, some limitations include:

- Limited depth: For advanced students, the book may not provide enough challenge or exploration of more complex fraction concepts.
- Supplementary materials needed: Teachers and parents may need additional exercises or digital resources for practice and assessment.
- Cultural relevance: Some visuals might need adaptation to reflect diverse contexts or local objects.

Despite these considerations, the book remains a valuable tool for foundational learning.

Impact and Reception

Educator and Parent Feedback

Many educators praise Visual Fractions for its engaging visuals and clear explanations, noting that it helps reduce math anxiety among young learners. Parents appreciate its straightforward approach, often using it as a supplement to classroom instruction.

Student Outcomes

While empirical studies specific to this book are limited, anecdotal evidence suggests that students who utilize visual-based resources tend to develop a stronger conceptual understanding of fractions, leading to improved performance in subsequent math topics.

Integrating Visual Fractions into Teaching Practice

To maximize its effectiveness, educators and parents can:

- Combine with hands-on activities: Use physical fraction tiles, cut-outs, or real objects alongside the book's illustrations.
- Encourage discussion: Ask students to describe what they see in the visuals and relate it to their own experiences.
- Incorporate technology: Use digital tools or apps that replicate the visual models for interactive learning.
- Assess understanding: Create simple quizzes or observations to gauge how well students grasp the concepts visually.

Conclusion

Visual Fractions: A Beginning Fractions Book 2014 stands out as a thoughtfully designed educational resource that leverages visual learning to introduce young learners to the fundamental concepts of fractions. Its combination of colorful illustrations, clear explanations, and engaging activities aligns well with early childhood education principles, making fractions less intimidating and more accessible. While it is most effective as an introductory tool, its principles can serve as a foundation for further exploration of fractions and other mathematical concepts. As the push for visual and hands-on learning continues to grow, this book remains a relevant and valuable addition to the early math educator's toolkit, fostering confidence and curiosity in young students embarking on their mathematical journey.

Question What are the main topics covered in 'Visual Fractions: A Beginning Fractions Book 2014'? The book introduces basic concepts of fractions, including parts of a whole, comparing fractions, and visual representations to help students understand fractions intuitively. **Answer** Is 'Visual Fractions: A Beginning Fractions Book 2014' suitable for early learners? Yes, it is designed for beginners and early learners, using visual tools and simple explanations to make learning fractions accessible and engaging. How does the book incorporate visual aids to teach fractions? The book uses diagrams, pie charts, and other visual tools to illustrate fractions, making abstract concepts more concrete and easier to grasp for young learners. Can teachers use 'Visual Fractions: A Beginning Fractions Book 2014' for classroom instruction? Absolutely, it is a useful resource for teachers to introduce fractions, supplement lessons, and provide visual activities for students. Are there practice exercises in 'Visual Fractions: A Beginning Fractions Book 2014'? Yes, the book

includes various practice problems and activities to reinforce understanding and help students apply what they have learned. What makes 'Visual Fractions: A Beginning Fractions Book 2014' popular among educators and parents? Its clear visual approach, age-appropriate content, and engaging activities make it an effective tool for introducing fractions to young learners and supporting early math development.

Related keywords: visual fractions, beginning fractions, fractions book, math for beginners, elementary math, teaching fractions, fraction concepts, early math education, simple fractions, math workbook

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