

biology 12 ncert short notes Study Guide

biology 12 ncert short notes are an invaluable resource for students preparing for the Class 12 Biology board exams. These concise notes distill complex concepts into easily understandable points, making revision efficient and effective. Whether you are revising key topics or seeking quick explanations, NCERT short notes serve as an excellent tool to reinforce your understanding and improve your exam performance. In this comprehensive guide, we will explore the importance of NCERT short notes for Class 12 Biology, delve into detailed summaries of major chapters, and provide tips on how to utilize these notes for optimal learning.

Importance of NCERT Short Notes for Class 12 Biology

Why are NCERT short notes essential?

- Concise Summaries: They condense lengthy chapters into brief, manageable points.
- Quick Revision: Perfect for last-minute preparations before exams.
- Clarity of Concepts: Simplify complex topics, making them easier to grasp.
- Enhanced Retention: Bullet points and highlights aid memorization.
- Exam-Oriented: Focus on important topics and probable questions for exams.

Benefits of Using Short Notes in Exam Preparation

- Save time during revision sessions.
- Help identify weak areas that need further study.
- Facilitate faster recall of facts and concepts.
- Support effective note-making and active learning.
- Improve confidence by thorough revision of key points.

Overview of Major Chapters Covered in NCERT Short Notes for Class 12 Biology

The Class 12 NCERT Biology textbook is vast, covering topics from Genetics to Ecology. Short notes provide a summarized version of each chapter, highlighting fundamental concepts and key points.

Chapter 1: Reproduction in Organisms

- Types of reproduction: Asexual and Sexual
- Asexual methods: Fission, Budding, Fragmentation, Regeneration, Vegetative Propagation
- Sexual reproduction processes: Gamete formation, Fertilization, Development
- Significance of reproduction

Chapter 2: Sexual Reproduction in Flowering Plants

- Structure of flower
- Pollination types: Self and Cross-pollination
- Double fertilization and formation of endosperm
- Fruits and seeds development

Chapter 3: Human Reproduction

- Male and female reproductive systems
- Gametogenesis: Spermatogenesis and Oogenesis
- Fertilization process
- Pregnancy and parturition

Chapter 4: Reproductive Health

- Contraceptive methods
- STDs and their prevention
- Reproductive health programs

Chapter 5: Principles of Inheritance and Variation

- Mendel's experiments and laws
- Monohybrid and dihybrid crosses
- Chromosomal basis of inheritance
- Patterns of inheritance: Dominance, Recessiveness, Co-dominance

Chapter 6: Molecular Basis of Inheritance

- Structure of DNA and RNA
- DNA replication

- Central dogma: Transcription and translation
- Genetic code and mutations

Chapter 7: Evolution

- Evidence of evolution
- Theories of evolution
- Origin of life
- Hardy-Weinberg principle

Chapter 8: Human Health and Disease

- Pathogens causing diseases
- Immunity and vaccination
- Common diseases and their prevention

Chapter 9: Strategies for Enhancement in Food Production

- Plant breeding and crop improvement
- Animal husbandry
- Biotechnology in agriculture

Chapter 10: Microbes in Human Welfare

- Role of microbes in industries
- Biogas, fermentation processes
- Microbes in medicine

Chapter 11: Biotechnology and Its Applications

- Genetic engineering techniques
- Cloning and PCR
- Transgenic organisms

Chapter 12: Ecosystem

- Components of an ecosystem: Producers, consumers, decomposers
- Types of ecosystems
- Energy flow and nutrient cycling
- Ecological succession

Chapter 13: Biodiversity and Conservation

- Types of biodiversity
- Threats to biodiversity
- Conservation methods

How to Effectively Use NCERT Short Notes for Class 12 Biology

Step 1: Regular Revision

- Revisit notes frequently to reinforce memory.
- Use them alongside detailed textbooks for clarification.

Step 2: Create Your Own Notes

- Summarize notes in your own words.
- Highlight important points and add diagrams for visualization.

Step 3: Practice with Past Papers

- Use notes to answer previous years' questions.
- Focus on frequently asked questions for exam prediction.

Step 4: Use Diagrams and Flowcharts

- Visual aids help in understanding complex processes.
- Draw and label diagrams based on notes for better retention.

Step 5: Group Study and Discussions

- Share notes with peers.
- Clarify doubts through group discussions.

Additional Tips for Preparing Class 12 Biology Using Short Notes

- Prioritize chapters based on exam weightage.
- Use color coding to differentiate between topics.
- Keep a separate section for definitions and formulas.
- Regularly update your notes with new insights or clarifications.
- Practice diagram drawing and labeling for visual memory.

Conclusion

NCERT short notes for Class 12 Biology are a vital part of effective exam preparation. They enable students to grasp essential concepts quickly, revise efficiently, and build confidence for their board exams. By integrating these notes into your study routine and following the suggested strategies, you can enhance your understanding and achieve academic success. Remember, consistency and active revision are key to mastering Biology, and well-organized short notes are your best allies on this journey.

Disclaimer: This article serves as a comprehensive guide for students and educators. Always refer to the latest NCERT syllabus and textbooks for updated content and exam patterns.

Biology 12 NCERT Short Notes: An In-Depth Review for Students and Educators

In the realm of higher secondary education, particularly within the Indian academic framework, the Biology 12 NCERT Short Notes serve as an essential resource for students striving to grasp core biological concepts efficiently. These succinct, well-structured notes distill complex topics into manageable segments, facilitating quick revision and solid understanding. This article endeavors to explore their significance, structure, content, and pedagogical value from an investigative perspective, providing educators and learners with comprehensive insights into their utility and application.

Understanding the Role of Short Notes in Biological Education

The study of biology at the Class 12 level encompasses a broad spectrum of topics, ranging from cell biology and genetics to ecology and evolution. The depth and breadth of content often pose a challenge for students to retain information and perform well in examinations. Here, NCERT short notes emerge as invaluable tools, serving multiple functions:

- Concise Summaries: They encapsulate lengthy chapters into key points, aiding quick revision.
- Memory Reinforcement: The brevity and clarity enhance retention of vital facts and processes.
- Exam Preparation: Focused notes help students identify important topics likely to be tested.
- Conceptual Clarity: They highlight essential principles, aiding in understanding complex processes.

Given their importance, a critical examination of the Biology 12 NCERT Short Notes reveals their pedagogical strengths and areas for potential enhancement.

Structure and Content of Biology 12 NCERT Short Notes

The effectiveness of short notes hinges on their organization and content accuracy. The NCERT short notes for Class 12 Biology are systematically designed to align with the NCERT textbook syllabus, ensuring comprehensive coverage of all chapters.

Key Features of the Notes

- Chapter-wise segmentation: Each chapter is summarized separately, facilitating targeted revision.
- Hierarchical presentation: Concepts are introduced from basic definitions to advanced applications.
- Use of diagrams and tables: Visual aids are integrated to clarify complex processes like DNA replication or photosynthesis.
- Highlighted keywords: Important terms are emphasized for quick recall.
- Inclusion of formulas and diagrams: These aid in understanding quantitative aspects and biological structures.

Typical Content Breakdown

The notes typically cover the following core areas:

- Cell Biology: Structure and functions of cell organelles, cell cycle, cell division.
- Genetics: Mendelian principles, chromosomal basis of inheritance, mutations.
- Plant Physiology: Photosynthesis, respiration, transport in plants.
- Human Physiology: Digestion, respiration, circulatory, excretory, nervous, reproductive systems.
- Evolution and Ecology: Principles of evolution, ecosystems, biodiversity.

This systematic approach ensures students can navigate the complexity of biological concepts with clarity.

Pedagogical Significance and Effectiveness

The NCERT short notes are not merely summaries; they embody pedagogical strategies tailored to enhance learning outcomes.

Active Learning Facilitation

The notes encourage active engagement by prompting students to:

- Recall definitions and processes.
- Connect concepts across chapters.
- Use diagrams to visualize biological structures.

Preparation for Competitive Exams

Given the competitive nature of exams like NEET, these notes focus on high-yield facts?those most frequently tested?making the revision process more efficient.

Supporting Differentiated Learning

Students with varying learning paces benefit from these notes, as they can customize their revision schedules and focus on weaker areas.

Critical Evaluation and Limitations

While the Biology 12 NCERT Short Notes are valuable, an objective review also considers their limitations.

Potential for Oversimplification

In condensing extensive chapters, some nuances and detailed explanations may be overlooked, which could impact deeper understanding.

Dependence on External Resources

Short notes should complement, not replace, comprehensive textbooks and classroom instruction. Over-reliance may hinder students from developing critical thinking skills.

Need for Updated Content

Biological sciences evolve rapidly; thus, notes must be periodically revised to incorporate new discoveries and terminologies.

Enhancing the Utility of NCERT Short Notes: Recommendations

To maximize their effectiveness, educators and students can adopt strategies:

- Integrate with active learning: Use notes as a basis for quiz sessions, discussions, and concept maps.
- Complement with diagrams and flowcharts: Visual aids reinforce understanding.
- Use alongside detailed textbooks: For in-depth comprehension, especially for complex topics.
- Regular revision: Incorporate short notes into daily study routines for sustained retention.
- Feedback-driven updates: Educators can tailor notes based on student feedback and recent exam trends.

Conclusion: The Value of Biology 12 NCERT Short Notes in Biological Education

The Biology 12 NCERT Short Notes stand as a cornerstone resource in the educational toolkit for Class 12 students. Their structured brevity, combined with comprehensive coverage, makes them ideal for revision, quick reference, and reinforcing core concepts. When used judiciously, alongside textbooks and classroom learning, they significantly enhance comprehension and exam preparedness.

In the evolving landscape of biological sciences, these notes serve as a bridge connecting foundational knowledge with advanced understanding, thus empowering students to excel academically and develop a lifelong appreciation for the wonders of biology. Future enhancements, such as incorporating digital interactive elements and updated content, can further elevate their pedagogical impact, ensuring they remain a vital component of biological education in India.

References:

- NCERT Biology Textbook for Class 12
- Educational research on effective study aids
- Student feedback and pedagogical studies on short notes efficacy

QuestionAnswer What are the key topics covered in Biology 12 NCERT short notes? Biology 12 NCERT short notes cover topics such as reproduction, genetics and evolution, biology in human welfare, biotechnology, and ecology and environment, providing concise summaries of each

chapter. How do NCERT short notes help in preparing for board exams? NCERT short notes simplify complex concepts, making revision easier and faster, helping students grasp important points quickly and boosting their confidence for exams. Are NCERT short notes sufficient for scoring high marks in Biology 12? While short notes are excellent for quick revision, they should be complemented with detailed reading of NCERT textbooks and practice to achieve high scores. Where can I find reliable NCERT short notes for Biology 12 online? Reliable sources include official NCERT websites, educational apps, and reputable coaching centers that offer free or paid concise notes tailored for class 12 Biology. What is the best way to utilize short notes during exam preparation? Use short notes for quick revision, focus on difficult topics, and regularly test yourself with questions based on the notes to reinforce learning. Do NCERT short notes cover recent updates and additions in Biology? NCERT notes mainly focus on the syllabus prescribed by the board; for recent updates, refer to supplementary materials and latest research articles. Can NCERT short notes replace detailed textbook reading in Biology 12? No, short notes are meant for revision and quick reference; thorough understanding requires detailed reading of the NCERT textbook and additional resources. How often should I revise using NCERT short notes for effective learning? Regular revision, such as weekly or bi-weekly, using short notes helps retain information better and prepares you effectively for exams.

Related keywords: biology, 12th grade, NCERT notes, short notes, class 12 biology, CBSE biology, biology chapters, biology revision, biology syllabus, exam preparation

Oracle Fnd Documents Short Text

oracle fnd documents short text is a commonly searched term by Oracle E-Business Suite (EBS) users and administrators seeking concise information about FND (Foundation) documents within the Oracle environment. Understanding how to efficiently access, interpret, and manage these short texts is crucial for maintaining seamless application functionality, troubleshooting issues, and ensuring effective communication across modules. This article provides an in-depth exploration of Oracle FND documents short text, covering its purpose, structure, usage, and best practices for managing these essential components.

Understanding Oracle FND Documents Short Text

What Are FND Documents?

In Oracle E-Business Suite, FND (Foundation) documents are standardized pieces of data used across various modules to support configuration, messaging, and processing. These documents often contain essential information such as error messages, labels, descriptions, and short texts that

facilitate user interaction and system operations.

The Role of Short Texts in FND Documents

The short text within FND documents serves as a concise, easily understandable snippet of information that summarizes or labels a particular message or data element. This short text is typically used in user interfaces, notifications, and logs to quickly convey the essence of the message without overwhelming users with lengthy descriptions.

Key purposes of FND document short texts include:

- Providing quick, readable labels for form fields or options.
- Summarizing error or informational messages.
- Facilitating localization by enabling easy translation of concise texts.
- Enhancing user experience by reducing clutter and improving clarity.

Structure and Components of FND Documents Short Texts

Basic Structure of FND Documents

FND documents are stored within Oracle EBS's database tables, primarily in the `FND\_DOCUMENTS` and `FND\_DOCUMENTS\_TL` tables. These tables contain core information and translations, respectively.

Key tables involved:

- `FND\_DOCUMENTS`: Stores document identifiers, types, and core attributes.
- `FND\_DOCUMENTS\_TL`: Stores translated or localized text for different languages.

Components of Short Texts

A typical FND document short text consists of:

- Document Name/ID: Unique identifier for the document.
- Language Code: Specifies the language for the short text.
- Short Text Content: The concise message or label.
- Description: Additional details, often optional.
- Effective Dates: Validity period of the short text.

Example:

| Column Name | Description |

|-----|-----|

| DOCUMENT_NAME | Unique identifier like 'ERR_INV001' |

| LANGUAGE_CODE | 'US' for English (United States) |

| SHORT_TEXT | 'Invalid input' |

| DESCRIPTION | 'Error message for invalid user input' |

| START_DATE | Date from which the text is valid |

| END_DATE | Date until the text is valid |

Usage of FND Document Short Texts in Oracle EBS

Application in User Interface

Short texts are used extensively in forms, menus, and notifications to:

- Display labels for fields.
- Show error messages or warnings.
- Present status updates or informational messages.

Example: When a user enters invalid data, the system may display a short text like "Input error" to communicate the issue promptly.

Application in Messaging and Logging

Short texts facilitate quick identification of messages in system logs, aiding in troubleshooting and auditing.

Localization and Multilingual Support

Because short texts are stored with language codes, they support localization efforts, enabling the interface and messages to adapt to users' language preferences.

Managing FND Documents Short Texts

Creating and Updating Short Texts

To create or modify short texts, administrators typically:

- Use Oracle Applications Developer or similar tools.
- Access the `FND\_DOCUMENTS\_TL` table directly via SQL for advanced management.
- Use the Oracle EBS System Administrator responsibilities to manage translations and texts.

Steps to create a new short text:

- Define a unique document name or ID.
- Specify the language code.
- Enter the concise message in the `SHORT\_TEXT` field.
- Set the effective date range.
- Save the record to make it available system-wide.

Best Practices for Managing Short Texts

- Consistency: Use standardized language and terminology across all texts.
- Clarity: Keep messages brief but informative.
- Localization: Ensure translations are accurate and contextually appropriate.
- Version Control: Track changes and maintain historical records for audit purposes.
- Validation: Regularly review short texts for relevance and correctness.

Common Tools and Techniques

- Application Developer: For creating and editing documents within the Oracle EBS interface.
- SQL Scripts: For bulk updates or extraction of short texts.
- FNDLOAD Utility: A command-line tool for exporting/importing document definitions, including short texts.
- Workflow and Notifications: Incorporate short texts into workflows for automated messaging.

Best Practices and Troubleshooting

Ensuring Data Integrity

- Regularly validate the consistency of short texts across different languages.
- Maintain proper date ranges to avoid displaying outdated messages.

Handling Missing or Incorrect Short Texts

- Verify if the document exists in `FND\_DOCUMENTS\_TL`.
- Check effective dates and language codes.
- Use SQL queries to identify missing translations, e.g.:

```
```sql
```

```
SELECT FROM FND_DOCUMENTS_TL
```

```
WHERE DOCUMENT_NAME = 'ERR_INV001'
```

```
AND LANGUAGE_CODE = 'US';
```

```
```
```

- Update or add missing entries as needed.

Performance Optimization

- Index the `FND\_DOCUMENTS\_TL` table on document name and language code.
- Clean up obsolete or unused texts periodically.

Conclusion

Oracle FND documents short text is a vital element in the Oracle E-Business Suite ecosystem, contributing significantly to user interface clarity, system messaging, and localization efforts. Proper management of these short texts ensures a more efficient and user-friendly environment, reduces errors, and enhances overall system performance. Whether you're a system administrator, developer, or functional consultant, understanding the structure, usage, and management of FND document short texts is essential for maintaining a robust Oracle EBS deployment.

Key Takeaways:

- Short texts are concise messages stored within FND documents.
- They support localization, usability, and troubleshooting.
- Proper management involves creation, updates, validation, and periodic review.
- Tools like FNDLOAD and SQL scripts facilitate efficient handling.
- Best practices ensure consistency, clarity, and system integrity.

By mastering the concepts and techniques outlined in this article, Oracle EBS users and administrators can optimize the use and management of FND document short texts, leading to improved system performance and user satisfaction.

Oracle FND Documents Short Text: An In-Depth Review and Guide

Oracle E-Business Suite's Foundation (FND) module plays a pivotal role in managing core system functionalities, including security, user management, and configuration. Among its myriad features, the handling and management of FND documents short text is a critical aspect that often puzzles users and administrators alike. This comprehensive review aims to demystify what FND documents short text entails, its significance, management practices, common issues, and best practices to optimize its use within Oracle EBS.

Understanding Oracle FND Documents Short Text

What is FND Documents Short Text?

FND Documents Short Text is a concise, descriptive field used within Oracle E-Business Suite to provide brief, meaningful summaries or titles for various documents, records, or transactions stored within the FND schema. It acts as a quick reference or identifier, allowing users to easily recognize and differentiate documents without delving into detailed content.

Typically, this short text:

- Serves as a summary or caption for a document, record, or transaction.
- Is stored in the FND_DOCUMENTS table, primarily in the SHORT_TEXT column.
- Is used across multiple modules, especially in areas like approvals, notifications, and document management.

This field is designed to enhance usability by providing a human-readable, easily scannable label, which is essential in environments handling thousands of documents and records.

The Role and Significance of Short Text in Oracle FND

Why is Short Text Important?

The short text attribute plays several vital roles within the Oracle EBS environment:

- Quick Identification: It allows users to quickly identify the purpose or nature of a document without opening detailed records.
- Improved User Experience: Simplifies navigation and search processes, especially in approval workflows or when retrieving documents.
- Reporting & Auditing: Facilitates reporting by providing meaningful labels that can be used in queries, logs, and audit trails.
- Consistency & Standardization: Ensures that documents are labeled uniformly, aiding in compliance and process standardization.

Typical Use Cases

- Document Management: Short text labels for uploaded or generated documents such as invoices, receipts, or correspondence.
- Workflow Approvals: Brief descriptions of approval requests or notifications.
- Error & Exception Tracking: Short descriptions of issues or alerts generated within the system.
- Custom Records: User-defined documents or records created via custom modules or extensions.

Managing FND Documents Short Text

Creating and Updating Short Text

Managing the short text effectively involves understanding where and how to set or modify this attribute:

- During Document Creation: When new documents are uploaded or generated via forms, APIs, or custom code, the short text is usually provided as part of the creation process.
- Via API Calls: Developers can set or update the short text using specific APIs like `FND_DOCUMENTS_PUB.Create_Document``.
- Manual Updates: Administrators or power users can update the short text directly through SQL scripts or through custom interfaces, with caution.

Best Practices for Managing Short Text

- Use Clear and Concise Descriptions: The short text should be meaningful yet brief, ideally not exceeding 50 characters.
- Maintain Consistency: Follow naming conventions or labeling standards across the organization.
- Update Regularly: When document content or context changes, update the short text to reflect the current status or description.
- Automate When Possible: Use APIs or scripts to populate short text fields during batch processing or integrations, reducing manual errors.

Common Methods to Handle Short Text

- Using SQL: Direct updates via SQL scripts (not recommended unless necessary and with proper backups).
- Using API: Preferred method for creating or updating documents programmatically.
- Using Forms: Oracle EBS forms or custom interfaces designed for document management.

Technical Aspects and Table Structures

FND_DOCUMENTS Table Overview

The core table where document-related data, including short text, is stored is FND_DOCUMENTS. Key columns include:

- DOCUMENT_ID: Unique identifier for each document.
- SHORT_TEXT: The brief description or title of the document.
- FILE_NAME: Name of the uploaded or stored file.
- DOCUMENT_TYPE: Type/category of the document.
- CREATION_DATE: When the document was created.
- LAST_UPDATE_DATE: Last modification timestamp.

Data Integrity and Constraints

- The SHORT_TEXT is typically constrained to a specific length (often 50 characters), ensuring standardization.
- Proper indexing on DOCUMENT_ID facilitates quick retrieval.
- Referential integrity is maintained via foreign keys to other tables like FND_DOCUMENTS_TL for multilingual support.

Challenges and Common Issues with FND Documents Short Text

1. Inconsistent or Vague Short Texts

- Caused by manual entry errors or lack of standards.
- Leads to difficulty in document identification and retrieval.

2. Length Limitations

- The character limit may restrict descriptive detail.
- Users may resort to abbreviations that can be ambiguous.

3. Multilingual Support Concerns

- When supporting multiple languages, short text must be maintained across translations.
- FND's multilingual tables (e.g., FND_DOCUMENTS_TL) are used, which require careful synchronization.

4. Performance Impact

- Excessively long or numerous short texts can affect query performance, especially in large environments.

5. Synchronization and Data Consistency

- Ensuring that short text updates are reflected across all relevant modules and reports.

Best Practices for Optimizing FND Documents Short Text

1. Standardization

- Develop organizational standards for naming conventions.
- Use templates or predefined phrases to ensure uniformity.

2. Validation

- Implement validation routines to prevent overly long or vague descriptions.
- Use check constraints or application-level validations.

3. Automation

- Leverage APIs for consistent and error-free updates.
- Automate batch updates for large document sets.

4. Multilingual Management

- Maintain translations in FND_DOCUMENTS_TL.
- Use consistent terminology across languages.

5. Regular Audits

- Periodically review documents' short texts for accuracy and relevance.
- Remove or archive outdated descriptions.

Integrating Short Text with Other Oracle EBS Components

Workflow and Approvals

- Short text is often displayed in approval notifications, dashboards, and worklists.
- Proper labeling improves decision-making efficiency.

Reporting and Analytics

- Short text fields are included in reports for summaries and summaries.
- They enable quick filtering and categorization.

Custom Development

- Developers should ensure that custom modules or integrations correctly handle the SHORT_TEXT attribute.
- When creating custom documents or records, always populate the short text for clarity.

Conclusion and Final Thoughts

The FND documents short text field, though seemingly simple, is a fundamental component of Oracle E-Business Suite's document management and communication ecosystem. Its proper management ensures that users can efficiently identify, search, and utilize documents, ultimately contributing to smoother workflows, better compliance, and more effective data management.

To leverage its full potential:

- Emphasize standardization and clarity.
- Use robust APIs and automation tools.
- Maintain multilingual consistency.
- Regularly audit and update descriptions.

By doing so, organizations can significantly enhance their operational efficiency and data clarity within Oracle EBS, avoiding common pitfalls and maximizing the value derived from their document management practices.

In essence, mastering the management of FND documents short text is crucial for administrators, developers, and end-users aiming for a streamlined, consistent, and effective Oracle E-Business Suite environment.

QuestionAnswer What are Oracle FND documents short text used for? Oracle FND documents short text are used to provide concise descriptions or summaries of various components, such as profiles, messages, or setup instructions within the Oracle E-Business Suite, facilitating quick understanding and reference. How can I modify the short text for an Oracle FND document? You can modify the short text by accessing the relevant form or table within Oracle Applications, such as the System Profiles or Messages window, and updating the description or text fields accordingly. Where are Oracle FND documents short texts stored? Short texts for Oracle FND documents are stored within the database tables associated with the specific modules, such as FND_DEFINITION or FND_MESSAGES, allowing for easy retrieval and management. Can I customize the short text in Oracle FND documents for different environments? Yes, customization is possible by updating the short texts in the database or through the Application Developer tools, enabling environment-specific descriptions or instructions as needed. Are there best practices for managing Oracle FND document short texts? Best practices include maintaining consistency in terminology, documenting changes properly, and ensuring that short texts are clear, concise, and accurately reflect the purpose of the documents to improve user understanding.

Related keywords: oracle fnd documents, oracle fnd guide, oracle fnd user manual, oracle fnd documentation, oracle fnd help, oracle fnd reference, oracle fnd tutorials, oracle fnd setup, oracle

fnd administration, oracle fnd support

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