

Philosophy Of Science Very Short Introduction Ver Workbook

philosophy of science very short introduction ver

The philosophy of science is a vital branch of philosophy that explores the fundamental questions about the nature, methods, and implications of scientific knowledge. It seeks to understand how scientific theories are formulated, validated, and interpreted, as well as examining the broader impact of science on society and our understanding of the universe. This brief introduction will provide an overview of key concepts, historical developments, and contemporary debates within the philosophy of science, offering a foundation for further exploration.

What Is the Philosophy of Science?

The philosophy of science addresses questions such as:

- What distinguishes scientific theories from non-scientific claims?
- How do scientists develop and test hypotheses?
- What is the nature of scientific explanation?
- How do scientific paradigms shift over time?
- What are the ethical implications of scientific research?

In essence, it investigates the epistemological and metaphysical foundations of scientific practice, aiming to clarify what science is and how it advances human knowledge.

Historical Development of the Philosophy of Science

Understanding the evolution of the philosophy of science helps contextualize current debates and perspectives.

Early Foundations and Rationalism

- Philosophers like Descartes and Leibniz emphasized reason and logical deduction.
- Early scientific thinkers sought to establish certainty through rational principles.

Empiricism and the Scientific Method

- The 17th and 18th centuries saw a shift towards empirical evidence, championed by thinkers like Bacon and Newton.
- Emphasis on observation, experimentation, and induction as core scientific methods.

19th and 20th Century Developments

- The rise of positivism, emphasizing observable phenomena.
- The emergence of logical positivism sought to eliminate metaphysics from science.
- Paradigm shifts introduced by Thomas Kuhn revolutionized understanding of scientific progress.
- Popper's falsificationism offered a criterion for scientific demarcation.

Key Concepts in the Philosophy of Science

This section highlights core ideas that underpin scientific inquiry and theory evaluation.

Scientific Method

- A systematic process involving hypothesis formulation, experimentation, and analysis.
- Debates persist about the rigidity and universality of scientific methods.

Falsifiability

- Proposed by Karl Popper, asserting that scientific hypotheses must be testable and refutable.
- Serves as a criterion to distinguish science from non-science.

Paradigms and Scientific Revolutions

- Introduced by Thomas Kuhn, paradigms are overarching frameworks guiding research.
- Scientific revolutions occur when anomalies accumulate, leading to paradigm shifts.

Underdetermination

- The idea that empirical data alone may be insufficient to determine theory choice.
- Multiple theories can often explain the same data.

Realism vs. Anti-Realism

- Realism posits that scientific theories describe true aspects of reality.
- Anti-realism argues theories are merely useful models or instruments.

Major Debates and Contemporary Issues

The philosophy of science continues to grapple with complex questions that impact scientific practice and societal understanding.

Demarcation Problem

- How to distinguish scientific theories from pseudoscience?
- Different criteria have been proposed, including falsifiability and empirical testability.

Science and Values

- Exploring the influence of social, ethical, and political values on scientific research.
- Debates about objectivity and bias in science.

Scientific Explanation

- What constitutes a satisfactory explanation?
- Different models, such as deductive-nomological and causal-mechanical explanations.

Progress and Philosophy of Science

- Is scientific progress cumulative or revolutionary?
- How do theories evolve over time?

Interdisciplinary Perspectives

- Incorporation of insights from sociology, history, and cognitive science.
- Examining science as a social activity.

Why the Philosophy of Science Matters

Understanding the philosophy of science is crucial for several reasons:

- It clarifies the assumptions underlying scientific theories.
- It enhances critical thinking about scientific claims.
- It informs ethical considerations in research.
- It fosters dialogue between science and other disciplines.
- It helps evaluate the societal impact of scientific advances.

Conclusion

The philosophy of science, though often abstract, plays a practical role in shaping scientific inquiry and public understanding. By critically examining the foundations, methods, and implications of science, it encourages a reflective approach that promotes scientific integrity and progress. As science continues to evolve amidst technological advances and societal challenges, philosophical inquiry remains essential in guiding responsible and meaningful scientific endeavors.

This brief overview serves as an invitation to delve deeper into the fascinating questions that define the philosophy of science, encouraging curiosity and critical engagement with the pursuit of knowledge.

Philosophy of Science: A Very Short Introduction ? An In-Depth Review

Introduction to the Philosophy of Science

The philosophy of science is a vibrant and foundational branch of philosophy that explores the assumptions, foundations, methods, and implications of the sciences. It seeks to understand how scientific knowledge is gained, validated, and structured, while also examining the broader questions about the nature of scientific truth, explanation, and progress. As a discipline, it bridges the gap between empirical science and philosophical inquiry, providing critical insights into the scientific enterprise.

This review delves into the core themes, historical development, key figures, and contemporary debates within the philosophy of science, offering a comprehensive understanding of what makes this field both intellectually stimulating and practically significant.

Historical Development of the Philosophy of Science

Early Foundations and Classical Thinkers

- Ancient Roots: Philosophical considerations about nature and knowledge date back to ancient Greece, with Plato and Aristotle pondering the nature of reality and scientific explanation.
- Aristotle's Contributions: Emphasized empirical observation and the importance of causes and

principles in understanding nature.

- Medieval Perspectives: Integration of religious doctrine with natural philosophy, setting the stage for modern scientific inquiry.

The Scientific Revolution

- Copernicus, Galileo, and Kepler: Shifted the paradigm towards heliocentric models and emphasized empirical testing.
- Descartes and Rationalism: Highlighted the role of reason and deduction in scientific reasoning.
- Newton: Unified celestial and terrestrial physics, exemplifying the mathematical modeling of natural phenomena.
- Impact: Laid the groundwork for viewing science as a systematic, empirical enterprise grounded in mathematical laws.

19th and 20th Century Developments

- Positivism: Emphasized observable phenomena and rejected metaphysical speculation (e.g., Auguste Comte).
- Kantian Revolution: Questioned the limits of human knowledge and the role of theories in shaping our understanding.
- Logical Positivism: Sought to clarify scientific language and eliminate metaphysics through formal logic and verification principles.
- Philosophy of Science as a Formal Discipline: Emergence of analytic philosophy focusing on logical analysis of scientific language and theories.

Core Themes in the Philosophy of Science

The Nature of Scientific Explanation

Understanding what constitutes a good scientific explanation is central:

- Deductive-Nomological Model: Explains phenomena via logical deduction from universal laws.
- Statistical and Probabilistic Explanations: Recognize the role of probability in explaining phenomena, especially in fields like quantum mechanics and evolutionary biology.
- Causal Explanations: Focus on identifying cause-and-effect relationships.
- Mechanistic Explanation: Emphasizes the importance of understanding the underlying mechanisms that produce phenomena.

The Structure of Scientific Theories

- Theories as Frameworks: Theories provide the conceptual scaffolding for interpreting data.
- Models and Analogies: Simplified representations that help visualize complex phenomena.
- Theories as Instruments: Some argue theories are tools for prediction rather than literal descriptions of reality.

The Demarcation Problem

- What distinguishes science from non-science?
- Key Criteria: Falsifiability (Popper), verifiability, empirical testability, and methodological rigor.
- Controversies: Some argue the demarcation is fuzzy, especially with pseudosciences and fringe theories.

Falsifiability and Scientific Progress

- Karl Popper: Proposed falsifiability as the hallmark of scientific theories.
- Falsification vs. Verification: Emphasized testing theories by attempting to disprove them.
- Growth of Knowledge: Scientific theories are provisional, subject to revision or rejection in light of new evidence.

Underdetermination of Theory by Evidence

- The idea that empirical data alone may be insufficient to determine a single scientific theory.
- Multiple theories can often explain the same data (e.g., wave vs. particle theories in physics).

Scientific Realism vs. Anti-Realism

- Realists: Believe that scientific theories truthfully describe the unobservable aspects of reality.
- Anti-Realists: Argue that theories are merely useful instruments, and their claims about unobservables are not necessarily true.
- Implications: Debates influence how scientists interpret their theories and the progress of science.

Methodological and Epistemological Issues

Induction and Deduction

- Inductive Reasoning: Deriving general laws from specific observations.
- Challenges include induction's problem, notably Hume's problem of induction.
- Deductive Reasoning: Deriving specific predictions from general theories.
- Central to hypothesis testing.

Hypothesis Testing and Confirmation

- The process involves formulating hypotheses and conducting experiments to confirm or falsify them.
- The Duhem-Quine thesis suggests that hypotheses cannot be tested in isolation, complicating confirmation.

Paradigm Shifts and Scientific Revolutions

- Thomas Kuhn: Argued that science progresses via paradigm shifts?fundamental changes in frameworks.
- Normal Science: Research within existing paradigms.
- Revolutionary Science: When anomalies accumulate, leading to paradigm shifts (e.g., from Newtonian physics to Einstein's relativity).

Progress and Rationality in Science

- Debate over whether science is cumulative or revolutionary.
- Rational reconstruction of scientific change remains a complex philosophical challenge.

Contemporary Debates and Directions

Science and Values

- The extent to which social, ethical, and political values influence scientific research.
- Concerns over value-ladenness potentially compromising objectivity.

Science, Objectivity, and Bias

- Recognizes that scientific inquiry is influenced by human factors.
- Strategies for maintaining objectivity, such as peer review and replication.

The Role of Models and Simulations

- Increasing reliance on computational models.
- Debates about their epistemic status and reliability.

Interdisciplinary and Applied Philosophy of Science

- Addressing issues in emerging fields like artificial intelligence, climate science, and bioethics.
- Examining the societal impact of scientific discoveries and technological innovations.

Key Figures and Contributions

- Karl Popper: Falsifiability, critical rationalism.
- Thomas Kuhn: Paradigm shifts, scientific revolutions.
- Imre Lakatos: Research programmes, scientific methodology.
- Paul Feyerabend: Epistemological anarchism, critique of scientific method.
- Bas van Fraassen: Constructive empiricism, anti-realism.
- Larry Laudan: Problem-solving approach to scientific rationality.

Significance of the Philosophy of Science

- Clarifies foundational issues, enhancing scientific rigor.
- Influences scientific methodology and policy.
- Promotes critical thinking about scientific claims and practices.
- Bridges scientific and philosophical communities, fostering interdisciplinary dialogue.
- Addresses societal implications of scientific advancements.

Conclusion

The philosophy of science, even in its very short introduction form, reveals a rich landscape of inquiry into how science functions, how knowledge is constructed, and what we can genuinely claim about the universe. It challenges scientists and philosophers alike to scrutinize their assumptions, methodologies, and the very nature of scientific truth. As science continues to advance and intersect with new technologies and societal concerns, the philosophical reflection on these developments

remains indispensable, ensuring that our pursuit of knowledge remains rigorous, transparent, and ethically grounded.

This exploration underscores that understanding the philosophy of science is not merely an academic exercise but a vital component of engaging meaningfully with the scientific world and its profound impact on human life.

QuestionAnswer What is the philosophy of science? It is the study of the foundations, methods, and implications of science. Why is the philosophy of science important? It helps us understand how scientific knowledge is generated and validated. Who are key figures in the philosophy of science? Philosophers like Karl Popper, Thomas Kuhn, and Immanuel Kant are influential in this field. What is scientific realism? The belief that scientific theories describe the true nature of reality. What is the scientific method? A systematic approach to inquiry involving observation, hypothesis, experimentation, and analysis. How does paradigm shift relate to science? It's the fundamental change in scientific frameworks, as described by Thomas Kuhn. What is the role of falsifiability in science? It indicates that scientific theories must be testable and potentially proven false to be considered scientific.

Related keywords: philosophy, science, epistemology, scientific method, knowledge, theory, empiricism, rationalism, scientific realism, scientific inquiry

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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