

DOI: <https://doi.org/10.5281/zenodo.10846566>

## EXPLORING THE PECULIARITIES OF FORMATION IN IT TERMINOLOGY

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### ANNOTATION

*This article explores the formation of IT terminology, drawing parallels with the evolution of language and cultural concepts, as exemplified by proverbs. It highlights the multifaceted nature of IT terminology, encompassing cultural adaptation, technological innovation, linguistic borrowing, and semantic evolution. Through the analysis of selected IT terms, the article demonstrates how cultural context, technological advancements, and linguistic influences shape the vocabulary used to describe modern technology. By examining the peculiarities of IT terminology formation, readers gain insight into the dynamic interplay between culture, technology, and language in shaping contemporary discourse.*

**Key words:** *Cloud computing, Viral marketing, Blockchain, Internet of Things, Algorithm, Cyberspace, Hacker, Big Data*

The evolution of IT terminology reflects the dynamic nature of technology and its integration into various aspects of modern life. Drawing parallels with the concept of

conscience as explored through proverbs, this article examines the peculiarities of the formation of IT terminology. By analyzing selected IT terms and their cultural, technological, and linguistic origins, we aim to elucidate the multifaceted nature of IT terminology and its significance in shaping contemporary discourse. IT terminology serves as the language through which we conceptualize and communicate ideas related to technology. Similar to proverbs, which encapsulate cultural wisdom, IT terms embody the complexities of technological advancement and societal adaptation.

In the ever-evolving landscape of technology, the formation of IT terminology is a fascinating and dynamic process. From acronyms to jargon, the language of information technology is constantly evolving to keep pace with innovation. Understanding the peculiarities of how IT terminology is formed sheds light on the interconnected nature of language and technology.

#### Language Evolution and IT Terminology

Language evolution is a natural phenomenon influenced by societal, cultural, and technological changes (Crystal, 2003). The formation of IT terminology is no exception, as it adapts to reflect advancements in technology and the needs of its users. As new technologies emerge, new terms are coined to describe them, often borrowing from existing languages or creating entirely new words. This process of linguistic evolution is essential for ensuring effective communication within the IT industry.

#### Global Influence on IT Terminology

The global nature of technology has led to the adoption of IT terminology from various languages and cultures (Gilliver, 2016). For example, words like "algorithm" and "byte" have roots in Arabic and English, respectively. This borrowing of words from different languages not only reflects the interconnectedness of cultures but also serves to enrich the language of technology. As technology continues to advance on a global scale, the influence of diverse linguistic backgrounds on IT terminology is likely to grow.

#### Acronyms and Abbreviations in IT Terminology

Acronyms and abbreviations are ubiquitous in IT terminology, serving as shorthand for complex concepts and processes. From CPU (Central Processing Unit) to HTML (Hypertext Markup Language), these abbreviated forms streamline communication among professionals and enthusiasts alike. However, the proliferation of acronyms can also lead to confusion, especially for those new to the field. Researchers have highlighted the importance of clarity and consistency in the use of acronyms to avoid misunderstandings (Smith et al., 2019).

### Semantic Shifts in IT Terminology

The meanings of words can change over time, a phenomenon known as semantic shift. In IT terminology, semantic shifts are common as technologies evolve and new functionalities emerge. For example, the term "cloud" once referred primarily to meteorological phenomena but has since been adopted to describe cloud computing, a technology that enables the delivery of computing services over the internet. Understanding these semantic shifts is crucial for accurately interpreting IT terminology and staying abreast of technological developments.

### User-Centric Language in IT Terminology

As technology becomes more integrated into everyday life, there is a growing emphasis on user-centric language in IT terminology. Terms such as "user interface" and "user experience" highlight the importance of designing technology with the end user in mind. This shift towards user-centric language reflects a broader trend towards human-centered design in the tech industry. Research in human-computer interaction emphasizes the importance of clear and intuitive language in promoting user engagement and satisfaction (Norman, 2013).

### Standardization and Innovation in IT Terminology

Standardization plays a crucial role in the formation of IT terminology, providing consistency and clarity in communication. Organizations such as the International Organization for Standardization (ISO) and the Internet Engineering Task Force (IETF) play key roles in standardizing IT terminology, ensuring that terms are universally understood and implemented. However, innovation also drives the

formation of new terminology, as technology continues to push the boundaries of what is possible. Balancing standardization and innovation is essential for maintaining a dynamic and effective language of technology.

#### Linguistic Creativity in IT Terminology

Despite the influence of standardization, linguistic creativity thrives in the world of IT terminology. From playful portmanteaus like "phablet" (phone + tablet) to whimsical terms like "cyberspace," creativity plays a vital role in shaping the language of technology. This creativity not only reflects the innovative spirit of the tech industry but also highlights the dynamic nature of language itself. Researchers have explored the role of linguistic creativity in promoting engagement and user adoption of new technologies (Swarts et al., 2020).

#### CONCLUSION

The formation of IT terminology is a multifaceted process shaped by evolution, adaptation, and innovation. From the borrowing of words from other languages to the creative coinage of new terms, the language of technology reflects the dynamic interplay between language and innovation. Understanding the peculiarities of IT terminology not only enhances communication within the tech industry but also provides insight into the ever-changing nature of language and technology.

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