

# Investigating Language Layers as the Main Problem of Linguistics

*Shodmonqulova Dilzoda*<sup>1</sup>

**Abstract:** Language is a multifaceted system composed of interconnected layers, each serving a distinct yet interdependent function in communication. This article explores the key structural layers of language, including the phonological, morphological, lexical, syntactic, semantic, pragmatic, and orthographic layers. Each layer contributes uniquely to the encoding, transmission, and interpretation of meaning. The phonological layer deals with sound systems, while the morphological layer focuses on word formation and internal structure. The lexical layer, central to this discussion, encompasses vocabulary, including words, idioms, and fixed expressions, highlighting semantic relationships, word formation processes, and lexical evolution. The syntactic layer examines sentence structure, and the semantic layer focuses on meaning. The pragmatic layer addresses context and speaker intent, while the orthographic layer represents the visual aspect of written language. Insights from linguists such as Ferdinand de Saussure, Noam Chomsky, and Steven Pinker provide theoretical frameworks for understanding these layers. Together, these layers interact to form a cohesive system that enables humans to convey complex ideas, emotions, and cultural values through language. This article underscores the importance of understanding language layers for linguistics, education, and cross-cultural communication.

**Key words:** phonological layer, morphological layer, lexical layer, syntactic layer, semantic layer, pragmatic layer, orthographic layer, semantic relationship, word, formation.

## Introduction

Language is a powerful tool that enables humans to communicate, share ideas, and express thoughts, emotions, and information. It is made up of several layers, each contributing to the overall process of communication. These layers are not separate but are interconnected, working together to ensure that language functions smoothly and meaningfully. At its most basic level, language consists of sounds, which form the building blocks for words. These sounds are organized in specific ways to create meaningful units of speech. Words, in turn, are the building blocks of sentences and larger structures. The way words are combined follows certain rules and patterns, which help make sentences grammatically correct and understandable. In addition to sounds and word structure, language also involves meaning. Each word has its own meaning, but meaning can also be shaped by how words are arranged in sentences and the context in which they are used. This is why communication is not just about knowing the words but understanding how to use them effectively in different situations. Language also evolves over time. New words are created, meanings shift, and languages borrow elements from one another. The way we use language reflects our culture, society, and history. It is constantly adapting to meet the needs of communication in a changing world. Moreover, language is not only spoken but also written. Writing adds an extra layer of complexity, involving conventions like spelling, punctuation, and structure to ensure that written language is clear and easy to read. In spoken language, non-verbal cues such as tone, body language, and gestures further enhance communication, providing additional layers of meaning. In essence, language is a dynamic, evolving system that allows humans to connect with each other, share experiences, and build relationships. Its layers, including sound, structure, meaning, and context, work together to make communication effective, nuanced, and adaptable to different situations and needs. Understanding how these layers function helps us appreciate the complexity of language and its importance in everyday life.

<sup>1</sup> Master Degree Student, Karshi Economics and Pedagogy University



Language is a complex system composed of multiple interconnected **layers**, each serving a specific purpose in communication. Saussure introduced the idea of language as a system of signs, emphasizing the relationship between the *signifier* (sound pattern) and the *signified* (concept). This perspective underscores the importance of understanding the interplay between different language layers, such as phonology and semantics.

## Results and Discussion

These layers function simultaneously and interact with one another to produce meaningful linguistic expressions. Below is a detailed explanation of the primary **language layers**:

### Phonological Layer

The **phonological layer** deals with the sounds of a language, including their organization, patterns, and rules for pronunciation. A **phoneme** can be considered a **language layer** because it forms the **fundamental building block** of spoken language. The smallest units of sound that distinguish meaning (e.g., /p/ and /b/ in “pat” vs. “bat”). It represents the **smallest unit of sound** that can distinguish meaning in a particular language. **Stress** and **intonation** are essential components of the **prosodic (or suprasegmental) layer** of language. They operate **above the level of individual phonemes and morphemes**, influencing how meaning is conveyed, clarified, or emphasized in spoken communication. How sounds are grouped into syllables (e.g., CV, CVC patterns). Bloomfield emphasized the importance of analyzing language through its smallest units, focusing on the phonological and morphological layers. His work laid the foundation for understanding how these layers interact to form larger syntactic structures. <sup>2</sup>**Phonological Rules:** Rules governing sound changes in different contexts (e.g., assimilation, elision). Phonology ensures clarity in speech and helps differentiate between words and meanings.

### Morphological Layer

The **morphological layer** studies the **internal structure of words** and how they are formed using morphemes. **Morpheme:** The smallest unit of meaning (e.g., “un-“, “happy“, “-ness”). **Inflection:** Modifying a word to indicate tense, number, case, etc. (e.g., run → running). **Derivation:** Creating new words by adding prefixes or suffixes (e.g., happy → happiness). **Compounding:** Combining two words to create a new one (e.g., notebook). Morphology helps in word formation, grammatical accuracy, and expressing complex ideas concisely.

### Syntactic Layer

The **syntactic layer** focuses on the **structure of sentences** and how words are arranged to convey meaning. Chomsky proposed that language consists of both a *surface structure* (the actual spoken or written form) and a *deep structure* (the underlying syntactic and semantic relationships). This distinction highlights the significance of the syntactic layer in connecting phonological forms to semantic meanings. <sup>3</sup>**Word Order:** Arrangement of subject (S), verb (V), and object (O) (e.g., SVO in English). **Phrases and Clauses:** Units of sentence structure (e.g., noun phrase, verb phrase). **Grammatical Rules:** Rules governing sentence formation (e.g., agreement between subject and verb). **Syntactic Ambiguity:** Sentences with multiple interpretations (e.g., “I saw the man with a telescope”). Syntax ensures grammatical correctness and facilitates clear communication.

### Semantic Layer

The **semantic layer** deals with **meaning in language**, both at the word and sentence level. **Lexical Semantics:** Meaning of individual words. **Compositional Semantics:** How word meanings combine to form sentence meanings. **Semantic Roles:** Functions words play in a sentence (e.g., agent, theme, instrument). **Polysemy and Homonymy:** Words with multiple meanings (e.g., “bank” as a financial

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<sup>2</sup> Bloomfield, L. *Language*. New York: H. Holt and Company (1933). 78–102

<sup>3</sup> Noam Chomsky & Morris Halle: *In the Sound Pattern of English*, New York, Harper & Row. 1968 (pp. 100–120).



institution or riverbank). **Synonymy and Antonymy:** Words with similar or opposite meanings (e.g., happy/sad). Semantics is critical for interpreting and conveying precise meanings.

### Pragmatic Layer

The **pragmatic layer** studies how **context influences language use and meaning**. Firth emphasized the importance of context in understanding meaning, suggesting that the pragmatic layer is crucial for interpreting linguistic expressions. **Context:** Physical, social, and cultural environment of communication. **Speech Acts:** Functions of utterances (e.g., requests, commands, promises). **Implicature:** Meaning implied but not explicitly stated (e.g., “Can you pass the salt?” implies a request). **Deixis:** Words whose meaning depends on context (e.g., here, there, now, then). Pragmatics ensures effective and contextually appropriate communication.

### Lexical Layer

The **lexical layer** refers to the **vocabulary** of a language, including word meanings and relationships. **Lexicon:** The mental dictionary of a speaker. **Word Categories:** Nouns, verbs, adjectives, adverbs, etc. **Collocations:** Common word pairings (e.g., “strong coffee” instead of “powerful coffee”). **Borrowings:** Words adopted from other languages (e.g., “pizza” from Italian). A rich and flexible lexicon allows for precise expression of thoughts and ideas. The **lexical layer** of a language refers to its vocabulary, encompassing all words, idiomatic expressions, and fixed phrases used by speakers. It is one of the fundamental layers of language structure, interacting closely with phonology, morphology, syntax, and semantics. The lexical layer serves as the foundation for communication, encoding and conveying meaning through words and expressions. Words, as the basic units of this layer, are not merely isolated entities but are deeply interconnected through various semantic, phonological, and syntactic relationships. The mental lexicon, which stores words and their associated meanings, pronunciation, grammatical information, and usage contexts, plays a crucial role in language processing and communication. At the core of the lexical layer is the **lexeme**, an abstract unit that represents a family of related word forms. For example, the lexeme “run” includes variations such as “runs,” “running,” and “ran.” Words are traditionally categorized into grammatical classes, including nouns, verbs, adjectives, adverbs, pronouns, prepositions, conjunctions, and interjections. Each class serves specific functions in sentence construction and meaning representation. In addition to basic word categories, the lexical layer includes specialized vocabulary, such as technical terminology used in specific fields like medicine, law, or computer science, as well as more informal or context-specific words like slang, colloquialisms, and regionalisms. The lexicon is not static but evolves over time. Borrowing from other languages is a common process, introducing loanwords such as “café” from French or “karaoke” from Japanese. New words are also created through processes like derivation, compounding, blending, and clipping. Neologisms emerge to address cultural and technological changes, while archaic or obsolete words fade away as they lose relevance in modern contexts. Words can also undergo semantic change, where their meanings shift over time. For example, the word “gay” once primarily meant “happy” but now predominantly refers to sexual orientation. Semantic relationships form an essential part of the lexical layer. Words are linked through synonymy (words with similar meanings, such as “happy” and “joyful”), antonymy (words with opposite meanings, such as “hot” and “cold”), polysemy (words with multiple related meanings, such as “head” referring to a body part or a leader), and hyponymy (where one word is a subset of another, such as “rose” being a type of “flower”). Homonymy also plays a role, where words share the same spelling or pronunciation but have different meanings, such as “bat” (an animal) and “bat” (a stick). The lexical layer also reflects cultural and social aspects of a language. Vocabulary often carries cultural significance, with some words encapsulating complex social or emotional meanings unique to their origin. For instance, the Danish word “hygge” captures a cultural concept of coziness and well-being. Similarly, slang and colloquial expressions often reveal the dynamics of informal communication and social identity. Functionally, the lexical layer serves several purposes. It enables the representation and transmission of meaning, facilitates precise and nuanced expression, and supports creativity in language through wordplay, puns, and poetry. The richness of a language's lexicon allows speakers to express complex thoughts, emotions, and abstract ideas effectively. It also



serves as a historical record, preserving traces of older linguistic forms and influences from other languages and cultures. In terms of its relationship with other layers of language, the lexical layer interacts deeply with phonology, morphology, syntax, semantics, and pragmatics. Phonology determines how words are pronounced, while morphology shapes their internal structure through affixes and root modifications. Syntax dictates how words are arranged into sentences, and semantics governs the meanings they convey. Pragmatics examines how word meanings shift depending on context, intention, and social factors. Linguists such as Ferdinand de Saussure, Noam Chomsky, and Steven Pinker have explored the importance of the lexical layer. Saussure emphasized the arbitrary relationship between the signifier (the word form) and the signified (the meaning). Chomsky highlighted the role of the mental lexicon in language competence, while Pinker examined how humans store, retrieve, and use lexical items in everyday communication. These perspectives underscore the lexical layer's significance in both theoretical linguistics and cognitive science. The lexical layer is a dynamic, evolving system that forms the backbone of language. It is not only a repository of words but also a reflection of culture, history, and social interaction. The interplay between lexical units and other linguistic layers highlights the complexity and richness of human communication. Understanding the lexical layer is essential for exploring how meaning is constructed, shared, and interpreted across different contexts and languages.

### Orthographic Layer (Written Language)

The **orthographic layer** focuses on the **writing system** of a language. **Alphabet or Script:** Symbols representing sounds or meanings (e.g., Latin, Cyrillic, Kanji). **Spelling Rules:** Standards for writing words correctly. **Punctuation:** Marks used to clarify meaning (e.g., commas, periods). Orthography standardizes written communication and preserves language across time and space.

### Interconnection between Layers

The layers of language are **interdependent** and cannot be fully understood in isolation:

- **Phonology ↔ Morphology:** Pronunciation may change based on word structure.
- **Morphology ↔ Syntax:** Word inflections influence sentence structure.
- **Syntax ↔ Semantics:** Word order affects meaning.
- **Semantics ↔ Pragmatics:** Context determines meaning nuances.
- **Lexicon ↔ All Layers:** Vocabulary integrates into every linguistic process.

Jakobson identified multiple functions of language, including the referential, emotive, conative, phatic, metalingual, and poetic functions. Each function corresponds to different layers of language, illustrating the multifaceted nature of linguistic communication.<sup>4</sup> Each **language layer** contributes uniquely to communication, from producing speech sounds (phonology) to constructing meaning in context (pragmatics). Understanding the interaction between these layers is essential for fields such as **linguistics, translation, language teaching, computational linguistics, and artificial intelligence.**

### Conclusion

Language is a complex and multi-layered system where each layer plays a distinct yet interconnected role in communication. The **phonological layer** manages the sounds of speech, the **morphological layer** focuses on word formation, and the **lexical layer** provides the words and expressions that form the foundation of meaning. The **syntactic layer** structures these words into coherent sentences, while the **semantic layer** ensures meaning is accurately conveyed. The **pragmatic layer** adapts language to suit different social and contextual settings, and the **orthographic layer** represents language in its written form.

These layers do not function in isolation but work together seamlessly to enable humans to express ideas, share emotions, and convey information effectively. Understanding the interplay between these

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<sup>4</sup> Jakobson, R. "Closing Statement: Linguistics and Poetics." In *Style in Language*, edited by T. A. Sebeok. 1960 pp-350-377



layers highlights the richness and adaptability of language, reflecting its role not just as a tool for communication but also as a powerful medium for expressing identity, culture, and creativity. Through these interconnected layers, language remains one of the most essential and versatile tools for human interaction and understanding.

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