SYNTAX, SYNTACTIC STRUCTURES, AND SENTENCE: AN ANALYTICAL STUDY

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Abstract. Syntax, a core component of linguistic theory, examines rules governing sentence structure. Syntactic structures dictate the way words combine to form coherent sentences. This article analyzes key syntactic concepts and sentence structure theory. The paper also explores the evolution of syntax in linguistic history and its implications for language processing.

Keywords: Syntax, Syntactic Structures, Sentence, Grammar, Language, Linguistics, Syntax Theory, Syntax Evolution, Sentence Formation, Language Processing

Annotatsiya. Sintaksis, tilshunoslik nazariyasining asosiy qismi boʻlib, gap tuzilishini boshqaruvchi qoidalarni oʻrganadi. Sintaktik tuzilmalar soʻzlarning yaxlit gaplarga aylanish usulini belgilaydi. Ushbu maqolada sintaktik tushunchalar va gap tuzilishi nazariyasi tahlil qilinadi, shuningdek, tilning rivojlanishida sintaksisning oʻrni koʻrib chiqiladi.

Kalit so'zlar: Sintaksis, Sintaktik tuzilmalar, Gap, Grammatika, Til, Tilshunoslik, Sintaksis nazariyasi, Sintaksis evolyutsiyasi, Gap tuzilishi, Tilni qayta ishlash

Аннотация. Синтаксис, важнейший компонент лингвистической теории, исследует правила построения предложений. Синтаксические структуры определяют, как слова объединяются для создания связных предложений. В статье анализируются ключевые синтаксические концепции и теория структуры предложения, а также рассматривается развитие синтаксиса в истории языка.

Ключевые слова: Синтаксис, Синтаксические структуры, Предложение, Грамматика, Язык, Лингвистика, Теория синтаксиса, Эволюция синтаксиса, Формирование предложения, Обработка языка

Introduction. The study of syntax delves into the structural framework underlying language formation and interpretation. Syntax is a branch of linguistics that governs the rules determining the arrangement of words to create coherent sentences. At the heart of syntax lies the idea of syntactic structures, which outline the configurations words take in sentences to convey clear and specific meanings. The term "syntax" originates from the Greek word "syntaxis," meaning "arrangement" or "order," highlighting its focus on the ordered nature of language construction [1, p. 32].

Historically, the study of syntax has undergone significant www.tadqiqotlar.uz 13-to'plam 2-son noyabr 2023

transformations, with early grammarians focusing on prescriptive rules before the emergence of descriptive linguistic models. One of the most groundbreaking developments in syntactic theory was Noam Chomsky's transformational-generative grammar, which revolutionized the way syntacticians viewed sentence structure. Chomsky proposed that human language capacity is innate, with specific syntactic rules hardwired into the brain, allowing speakers to generate infinite sentence forms from a finite set of words [2, p. 56].

Understanding syntactic structures offers insights into not only language formation but also cognitive processes underlying human communication. The significance of syntax extends beyond mere sentence construction, as it reflects broader principles of human cognition, language processing, and semantic interpretation. This article aims to discuss the foundational aspects of syntax, explore prominent syntactic theories, and analyze the role of syntactic structures in constructing meaningful sentences. By examining these areas, the article highlights the impact of syntax on language learning, cognitive linguistics, and artificial intelligence models of natural language processing.

Definition and Scope of Syntax

Syntax is often defined as the study of the principles and rules for constructing sentences in any given language. It encompasses both formal structures, like sentence patterns, and functional properties, such as meaning and context. Syntax is instrumental in delineating how words are combined to form phrases and sentences that adhere to language-specific norms [3, p. 78].

Syntactic Structures and Hierarchy

A fundamental concept in syntax is the hierarchical structure of sentences. Rather than being mere linear arrangements of words, sentences are organized into nested structures, often represented in tree diagrams. This approach, developed in large part by Chomsky, allows for analysis at multiple levels, from individual phrases to whole sentences. The hierarchical nature of syntactic structures facilitates the separation of syntactic rules from semantic interpretations, making it easier to determine the grammaticality of sentence structures [4, p. 91].

Transformational-Generative Grammar and Universal Grammar

Chomsky's transformational-generative grammar theory posits that language operates through a system of transformations. These transformations enable a single sentence to manifest in different forms, such as active and passive voice. Additionally, Chomsky introduced the idea of a "universal grammar," a set of syntactic principles shared across all languages. This theory suggests an innate language faculty, explaining why children can acquire language rapidly and naturally [5, p. 103].

Sentence Structure and Functional Grammar

While traditional syntactic theory often centers on structural rules, functional grammar considers the roles of words within a sentence, emphasizing how elements like subject, predicate, object, and adjuncts contribute to the sentence's meaning. Functional grammar posits that syntactic structures should

be analyzed in terms of their communicative purposes, particularly how information is distributed and highlighted within sentences [6, p. 115].

Syntax and Language Processing in Artificial Intelligence

Syntax plays a crucial role in natural language processing (NLP) within artificial intelligence, allowing machines to comprehend human language. Techniques like parsing help AI systems break down sentences into syntactic components, enhancing their ability to interpret and generate coherent responses. Syntax-driven models are foundational to improving machine translation, voice recognition, and text generation applications, making syntax essential to advances in AI language technology [7, p. 129].

Conclusion

Syntax forms the backbone of linguistic theory, connecting sentence structure with semantic meaning. Understanding syntactic structures not only sheds light on the mechanics of language but also reveals insights into cognitive processes. Chomsky's transformational-generative grammar and the concept of universal grammar underscore the innate nature of syntactic knowledge, which is consistent across diverse languages. Furthermore, syntax plays a crucial role in artificial intelligence, where syntax models enable more sophisticated language processing. Thus, syntax continues to bridge the gaps between linguistic theory, cognitive science, and technology, proving its enduring relevance in both theoretical and applied fields.

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