

and versatility of the devices they develop. It is obvious, that the peripheral development sector has a good future ahead of it and there is every reason to expect a high rate of growth and increased global market share in the near future. The use of wireless technology, increased battery life, the development of peripherals tethered to smartphones, improved sound and image quality, voice and gesture recognition technology, the rise in popularity of gaming devices and virtual and augmented reality devices are all key trends that are already shaping the future of peripherals. And assuming that the development of peripherals is kept up to date and driven by current IT trends, we should also expect to see changes in peripherals related to the development of artificial intelligence, cloud computing, the popularity of the Internet of Things and many other things that until recently seemed like fantasy fiction.

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SWIFT: EMPOWERING IOS DEVELOPMENT WITH ELEGANCE AND EFFICIENCY

Poluriezov D.S., student

Gerasymchuk T.V., Associate Professor,

Kharkiv National University of Radio Electronics

Swift has emerged as the go-to programming language for iOS development, revolutionizing the way developers create applications for Apple's ecosystem. Combining modern syntax, safety features, and impressive performance, Swift offers a

powerful toolkit for building robust and user-friendly iOS applications. In this article, we will explore the key features of Swift and delve into its role in iOS development.

1. A Brief Overview of Swift:

Swift was introduced by Apple in 2014 as a successor to Objective-C, aiming to address the limitations of its predecessor and provide a more intuitive and efficient programming language for iOS development. Since its inception, Swift has gained tremendous popularity and has been widely adopted by developers worldwide.

One of the major strengths of Swift lies in its clean and expressive syntax. With its simplified grammar, Swift code is easier to read and maintain, reducing the potential for errors and enhancing developer productivity. The language also introduces numerous modern features, such as optionals, closures, and generics, which enable developers to write concise and robust code.

2. Safety and Performance:

Swift places a strong emphasis on safety, aiming to prevent common programming errors and minimize runtime crashes. It achieves this through features like type inference, strong type checking, and optionals. The compiler actively helps identify potential issues during the development process, enabling early detection and resolution of bugs.

Furthermore, Swift's memory management model utilizes Automatic Reference Counting (ARC), which efficiently manages memory allocation and deallocation. This approach relieves developers from manual memory management burdens, reducing the risk of memory leaks and improving overall performance.

3. Swift and iOS Development:

Swift seamlessly integrates with the vast iOS ecosystem, offering developers a comprehensive set of frameworks, APIs, and tools to build cutting-edge applications. The Swift standard library provides a rich collection of data types, algorithms, and utilities that streamline common tasks, allowing developers to focus on the unique aspects of their applications.

Swift is fully interoperable with Objective-C, enabling developers to leverage existing code and libraries in their Swift projects. This interoperability ensures a

smooth transition for developers who are migrating from Objective-C to Swift and allows for incremental adoption of Swift in existing codebases.

4. SwiftUI: Revolutionizing UI Development:

With the introduction of SwiftUI, a declarative UI framework, Apple has further enhanced the iOS development experience with Swift. SwiftUI simplifies the process of creating dynamic and responsive user interfaces by allowing developers to describe the desired layout and behavior in a concise and declarative manner.

SwiftUI leverages the power of Swift's type system and compiler to provide live previews, real-time updates, and extensive code reuse. By enabling developers to build UIs using a combination of code and visual design tools, SwiftUI promotes faster iteration, prototyping, and experimentation.

5. Community Support and Future of Swift:

The Swift community has grown rapidly, fostering an active and supportive ecosystem. Numerous online resources, forums, and open-source libraries provide developers with ample opportunities to learn, collaborate, and

contribute to the language's evolution. Apple's commitment to open-source development further strengthens the community-driven nature of Swift. Looking ahead, Swift is poised to play an even more significant role in iOS development. Apple continues to invest in Swift's development, regularly introducing new features, performance improvements, and refinements. As Swift evolves, developers can expect an even more powerful and versatile language, enabling them to push the boundaries of iOS application development.

Conclusion. Swift has ushered in a new era of iOS development, offering developers a modern, safe, and efficient programming language. With its elegant syntax, emphasis on safety, and integration with the iOS ecosystem, Swift empowers developers to build innovative and high-quality applications. As the Swift community grows and the language evolves, its future looks brighter than ever, promising exciting possibilities.

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СЕКЦІЯ

ФІЛОСОФІЯ, СОЦІОЛОГІЯ ТА ПСИХОЛОГІЯ У СУЧАСНІЙ
ПАРАДИГМІ РОЗВИТКУ СУСПІЛЬСТВА.
ПЕДАГОГІКА ПРОФЕСІЙНОЇ ПІДГОТОВКИ.

RIGHT TO FREEDOM OF SPEECH IN UKRAINIAN CONSTITUTION

Ivan Kalmuk, student,

O.S. Gubaryeva, PhD, Associate Professor

Kharkiv National Automobile and Highway University

The right to freedom of speech is one of the most important rights of every human being and citizen. In modern times. Ukraine has identified joining the European space as a strategic goal of its development, with the ultimate goal of full integration into the European Union. This path is only possible through the democratization of Ukrainian society, adherence to global and European values, including the realization of the right to freedom of speech. In this regard, we will describe the main national and international legal acts that enshrine this right.

The Universal Declaration of Human Rights of 1948 is the first international document that laid the foundation for the protection of human rights. Article 19 recognizes the right of everyone to freedom of thought and expression. This right includes the freedom to hold and seek information and ideas through any media and