THE TKINTER LIBRARY IN THE PYTHON PROGRAMMING LANGUAGE

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Abstract: This article briefly describes the tikiner Python programming language library, which is currently widely used in the field of modern technology and forms the basis of modern technology, which examines scientific articles published in recent years.
Keywords: Python, tikiner library, modern technologies, programming language.

Python is one of the most popular interpreted programming languages designed to provide code readability and syntactic simplicity. Python has powerful graphics processing capabilities. In addition to various built-in visual processing modules, there is a wide range of third-party open source graphics processing software. This article focuses on the most popular and actively supported Python graphics libraries for various computational tasks such as image rendering, chart creation, image recognition, and other functions. Along with the fact that the science of the Python programming language serves to shape people's worldview in the information environment, it plays a fundamental role in mastering information culture. In today's "information age", young people not only improve their computer literacy, but also create new programs by teaching programming languages. Significantly promotes the use of new information technologies and their application in the taught disciplines in their professional activities in higher education institutions, academic lyceums, vocational colleges and technical schools.

Tkinter is an open source portable graphical user interface (GUI) library designed for use in Python scripts. Tkinter relies on the TK library, a GUI library used by Tcl/Tk and Perl, which in turn is implemented in C. Therefore, we can say that Tkinter is performed using several layers. Tkinter is a standard Python GUI (graphical User Interface) library that provides a set of tools and widgets for creating desktop GUI applications. Tkinter is included in most Python installations, making it easily accessible to developers who want to create GUI applications without requiring additional installation or libraries. The name "Tkinter" comes from the "Tkinter interface", which refers to the tkgui toolkit based on Tkinter. Tkinter provides a way to create windows, buttons, tags, text fields, and other GUI components to create interactive applications. Tkinter is an embedded Python module used to create GUI applications. It is one of the most commonly used modules for creating GUI applications in Python, because it is simple and easy to work with. You don't have to worry about installing the Tkinter module separately, as it already comes with Python. This gives the tkgui toolkit an object-oriented interface. Among them, Tkinter is the most commonly used. Tkinter can be used to create windows and dialog boxes that allow users to interact with your application. They can be used to display information, collect entered data, or provide options to the user. Tkinter can be used to create an interface for a desktop application, including buttons, menus, and other interactive elements. Tkinter can be used to add a graphical user interface to a command-line application, making it easier for users to interact with the application and input arguments.

The updated and evolving Python programming language was created with both practical and creative thinking in mind. From a practical point of view, it follows from the research materials that the discipline "The Python programming language in higher education institutions is based on the theoretical and practical conclusions of the disciplines "Higher Mathematics", "Elementary Mathematics" and "Physics". The implementation of the program is based on theoretical and practical knowledge of higher mathematics and physics, planned in the curriculum. At the same time, the results of the conducted research contribute to the development of the system of continuing education in the higher education system, the development of promising training programs, the development of the material and technical base of institutions, and the provision of informatization of education.

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