

Andrii Odryna

Kyiv National University of Technologies and Design

(Kyiv)

Scientific supervisor – PhD Maria Chernets

PROGRAMMING LANGUAGES A SUCCESSFUL SOFTWARE

DEVELOPER SHOULD LEARN

Today IT related professions are very popular and promising. One of these professions is a software developer or programmer. The popularity of this profession continues to grow. Over the year the number of specialists increased by 26%, and over two years – by 60%. The number of vacancies is also growing every year. For example, + 48% compared with 2017 [1].

People who start learning programming often ask: “What programming language should I learn now?”. It is possible to select a language by interest, for example: a language for developing mobile applications, websites, computer applications, games. But there is a rating of languages that are now the most popular and in demand. These are such languages as: JavaScript, Java, Python, C#, C++, PHP etc [2;3].

Let’s briefly analyze the most popular programming languages today.

JavaScript. This language can add some action to your website. You need to use HTML + CSS + JavaScript + JS frameworks to build some useful website. Also, from last updates JS can be used for developing mobile apps, games and computer apps which makes JS one of the most popular programming languages.

Java. It’s most popular object-oriented programming language. A lot of companies are using Java to build their back-end (server software) systems, desktop and mobile applications.

Python. Python is “easy to understand” and major programming language of the most promising technologies today such as Artificial intelligence (also called machine intelligence), machine learning, Big Data and robotics. Python popularity grows with popularity of these technologies.

C#. Developed by Microsoft. C# is a modern object-oriented programming language, like Java. It was designed for developing apps on the Microsoft platform, Windows apps and games development.

PHP. Same as JavaScript, it is script language for web developing. Mostly used on server side on about 80% of websites on the Internet. Can be used in pair with WordPress for web page developing. PHP is using by most popular websites like Google.com, Facebook.com, Yahoo.com, Wikipedia.com.

C++. Can be named “The legend” of programming languages. The creator of C++ is Bjarne Stroustrup. He began work on “C with classes” in 1979. In 1983 “C with classes” was renamed in C++ and in 1985 the first edition of book “The C++ Programming Language” was released. For example, Microsoft Word, Google Chrome, Adobe apps are developed by using C++. With this language you can write apps for different fields like banks, games, electronic payment systems etc.

Swift. Swift is programming language developed by Apple in 2014. This language is designed to work with Apple’s Cocoa and Cocoa touch frameworks for Apple products. Swift based on previous main language for Apple – Objective C.

Go. Young programming language designed by Google engineers in 2009. The main advantage of this language is multitasking. It needs less memory than other languages. Go is popular today because all CPU’s can work now in multitasking mod.

Thus, we can conclude that knowledge of one programming language is not enough. A modern specialist need to know a set of different languages and technologies, constantly learn and follow a trend, so that they can be called high-class specialists.

REFERENCES

1. DOU “Labor market 2018: record growth rate and 160 thousand specialists” [Electronic resource] : <https://dou.ua/lenta/articles/jobs-and-trends-2018/>
2. Dr. Michael J. Garbade “Top 3 most popular programming languages in 2018 (and their annual salaries)” [Electronic resource] : <https://hackernoon.com/top-3->

most-popular-programming-languages-in-2018-and-their-annual-salaries-

51b4a7354e06

3. Ruslan Shevchenko “Programming Language Rating 2019: JavaScript is almost equal to Java, Go's popularity decreases” [Electronic resource] : <https://dou.ua/lenta/articles/language-rating-jan-2019/>