

INTEGRATING ENGLISH LANGUAGE AND COMPUTER TECHNOLOGIES

At the end of the 20th century, modern computer and Internet technologies have taken an essential part in our everyday life. It is impossible to overestimate huge opportunities available for us nowadays. The development of computer science has affected our way of living, work and even many processes in the language, which has transformed wide range of people into active computer users and encouraged young generation to connect their future life with computer programming [see eg. 2, 3, 4].

In the age of globalization, the world has been changed into a village where English is perceived as a universal language for international communication and cooperation. English is considered as the dominant language of technology and computer because instructions, messages, and Internet texts are generally in English. Also, English is the most commonly used language among ten top languages exploited for communication and interaction via the internet and almost two-third of websites on the Internet are in English [5, p. 175].

Due to these facts, the problem arises how knowledge of English language is interconnected with computer technologies.

Therefore, the **aim** of the article is to analyze how English language and computer technologies are interconnected.

For the realization of the aim the following **tasks** are set:

1. to analyze connections between language of computer programming and English language;
2. to specify peculiarities of computer slang;
3. to reveal the importance of English for computer programmers;
4. to investigate the role of English in international cooperation;
5. to examine usage of English in the Internet.

The **object** of investigation is English language and language of computer technologies.

The **subject** of the research is tight connections and similar characteristics between English language and language of computer technologies.

The research **methods** are those of descriptive and contrastive analysis.

Our point of view is that English and computer are two inseparable things and there are several facts that can prove it.

The research identifies that due to the active spread of computer technologies many computer terms, previously known only to narrow specialists, have become widely used by simple computer users. It gave a push to the emergence of specific computer slang, which can be divided into two groups:

1. professional language of programmers and other people whose job is connected with computers;
2. area of professional language available to ordinary computer [1, P. 240-242].

There is one main similarity between these two slangs – both of them are words taken from English language. This is due to the fact that the motherland of computer technologies is the United States of America. These technologies are rapidly developing and when they enter our country, there is no equivalent in our language. That's why we start using original terms. For example, *monitor* (монітор), *device* (девайс), *hard drive* (хард драйв), *message* (меседж), *Windows* (віндоуз).

The next point to analyze is the fact that all computer languages are based on English. Every computer language consists of English words, for example, *if*, *else*, *for*, *while*, etc. Let's observe usage of English on the example of the code: *for bukva in stroka: if bukva == "a": print (bukva)*. The following keywords are used here: *for*, *in*, *if*, *print*. To understand the identifiers it is enough to have an intermediate level of English. A beginner programmer will be able to figure out that *for ... in ...* (для ... в ...) is a loop, *if* (якщо) is a condition, *print* (друк) is to print text on the screen [2]. If programmer is good, you can read his code like text and you'll understand everything. If you want to possess yourself as a professional programmer, you shouldn't call your functions in "translit" like *vstavitText*, *otpravitEmail*. You should call it in English: *putText*, *sendEmail*. If you use transliteration, you will be disrespected.

As we can see from the example, the best computer programmers aren't just good at writing codes, they are good at using English too. Every programmer should follow the rule "Think twice, code once". That means when you write codes, first of all you think what you will do. Then you transform your ideas into code using symbols, numbers and commands in English. In such way programming language is closely connected with English.

Thus, language is a key factor in computer system interfaces and much of computer use entails language including reading texts and instructions, seeking information, following hyperlinks and sending and receiving messages. Programmers that have language problems and low English proficiency may be particularly vulnerable to experiencing anxiety in computer use [5, p. 176].

Special emphasis is given to the fact that English is an international language. Consequently, knowledge of English is of great importance during meetings with foreign developers, colleagues, clients and investors. Furthermore, the possibility of an internship abroad is not excluded. In addition, knowledge of English is the first point to take into consideration when you are looking for a work in a good IT company [2]. For example, such companies as Viseven, Infopulse, EPAM, SoftServe, Luxoft, Oracle, DataArt, EVO, Ciklum, Netcracker, ZONE3000, Lucky Labs function in Ukraine (for instance, in Kyiv, Odessa, Kharkiv, Lviv, Zhytomir, Dniper, Vinnica) and give an opportunity to get working place abroad. As you can see, even simple English skills give you an advantage to other IT specialists, because it is one of the essential components of professional competence.

A lot of Ukrainian startups appear and want to introduce their own ideas to Europe, USA, UK and Asia, because these markets are more competitive. They need to know English to show their projects to English speaking potential customers [4]. The idea can be innovative and quite good, but they can show it in the worst way, because presentation is a 60% of success, so creators need to explain it and make investors or clients interested in their project.

Also we should take into consideration the fact that every programmer can have problems. After trying to solve the problem, he will search Google looking for Russian or Ukrainian solutions. And if he can't find solution, he should try to find it in foreign web-sites. There are far more helpful foreign forums than Russian or Ukrainian, because the biggest part of programming literature is written in English. It goes without saying that you can find it in Russian or Ukrainian, but it isn't written in this languages. It is just translation from English.

The **main conclusions** drawn from the study are that knowledge of English is an important component of a professional competence of a programmer. The case for foreign language ability is obvious when employment potential is concerned. A tendency for continuous development and self-education is impossible without knowledge of English in a programming.

Nowadays there are a lot of conferences, online reports and other webinars which can improve you knowledge. Teams of programmers gather together and discuss problems or make decisions considering programming. For example, All Your Base, Developer Week, PyCon, Redefine, SsasConf, HTML5DevConf etc. Every topic is accompanied by English language. So if you don't want to run in back, you should learn English language.

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