HW_01-Analysis_of_languages

Actividad # 1

Lenguajes de programación

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Activity

1. Read the following article: https://betterprogramming.pub/modern-languages-suck-ad21cbc8a57c. In its languages are rated in a scale from 1 to 10, represented by half-stars.

After reading the blog I must admit that was useful for me because of thinking about the way how I can evaluate a programming language not just for its speed or syntax instead of that, there is a group of characteristics and criteria that is more important. For example, learning effort, tooling, concurrency, immutability, error handling, etc.

2. Compile a small stable with the languages you know and are evaluated in the article. Compute the average score of the languages you know.

The next table was built by my experience in these languages

Language	Ecosystem	Learning effort	Type system	Concurrency	Error handling	Stars (1-10)
C++	poor	bad	difficult	limited	Throw /catch	3
Java	poor	Difficult for beginners	Good stable	Is supported	Throw /catch	5
JavaScript	The best	easy for beginners	Good stable	single-threaded	Throw /catch	9
Python	Good	easy for beginners	Good stable	limited	Throw /catch	7

3. For each of the languages you know, give your opinion on their pros and cons, and describe in which kind of projects should you use them.

These are the languages that I know a

C++

Pros

- Is multiparadigm
- It has type system
- It has handling error

Cons

- Difficult for beginners
- It has hard documentation
- The errors are difficult to debug

JavaScript

Pros

- A lot of complementary packages
- Good community and documentation
- Easy to learn

Cons

- It is not the best in handling error
- Single threaded
- Lack built-in support for immutable data structures

Python

Pros

- A lot of complementary packages
- Good community and popularity
- Easy to learn

Cons

- Is one of the lowest in runtime
- Single threaded
- Not support immutable data structures

4. Write a general conclusion of the importance of learning different programming algorithms and multiple languages.

Nowadays it is important to know different languages due to the industry is faster than ever, this stage in the world demands for the software engineers to be adaptative. In addition, today software systems can be created by using different paradigms and programming languages, thus a programmer can be immersed in different technologies at the same project.

In conclusion, the faster technology goes, the faster a programmer needs to be ready for using that technology, the programming languages will still be evolving because there is a lot people working every day, so this effect never stops.