Key Points from C.A.R. Hoare’s “Hints on Programming Language Design”

The author talks about the aspects that a good programming language should support to provide better assistance to the programmer. Program Design is the first in which the programming language should support not only how the program is to run, but also what it intents to achieve. It should assist in helping the cooperation of various parts of the program. As for Programming documentation, it is mentioned that the good programming language should support in writing self-documenting code. Readability of the code is more important than writability. Code Debugging is also another important aspect. A good programming language should assist in the way that it should help in identifying majority of the errors at the compile time itself. And even if these errors are not detected they should not have any machine or implementation dependent effects which is described as the “Security” criteria.

Good programming language principles described by author are as follows:

* Simplicity
* Security
* Fast Translation
* Efficient Code Object
* Readability