

Discussion On Cyclomatic Complexity

Cyclomatic Complexity is relevant within OOP as it is a good way to quantify how compact and streamlined a programme is, as it allows for a simple calculation of the independent paths contained within it. According to IBM (2021), “programs with lower cyclomatic complexity are easier to understand and less risky to modify”. This means that more streamlined code with less independent paths coming from it tends to work better.

Within OOP, as each class tends to contain many variables and attributes it is easy for the code for a particular programme to grow in size quite easily. By utilising a way of thinking that incorporates cyclomatic complexity within the design and programming process, we can be reminded as programmers and developers of the need to keep our work concise and as simple as possible. This enhances useability and in the long run allows for the code to be more stable.

References

IBM. (2021) Cyclomatic Complexity. Available From <https://www.ibm.com/docs/en/raa/6.1?topic=metrics-cyclomatic-complexity> [Accessed 2 June 2024].