Exploring the Cyclomatic Complexity's Relevance Today

The Cyclomatic Complexity is commonly considered in modules on testing the validity of code design today. However, in your opinion, should it be? Does it remain relevant today? Specific to the focus of this module, is it relevant in our quest to develop secure software? Justify all opinions which support your argument and share your responses with your team.

Even though the technique used in cyclomatic complexity is questioned, and there are other ways to test software for errors and vulnerabilities without knowing its complexity, it appears to be relevant today because it can be used to determine independent path executions, which has proven to be very useful for developers and testers in ensuring that each path has been tested at least once. As a result, it makes it easier to concentrate on hidden paths, improve code coverage, and assess the program's risk.

There are numerous benefits, including the ability to be utilised as a quality metric, the ability to compute faster than many other metrics, the ability to quantify the minimal effort and optimum areas of concentration for testing, and the ease of application. As a result, it is still important and should be considered when building secure software.

References:
Martin, S. (1988) A Critique of Cyclomatic Complexity as a Software Metric. Software Engineering Journal 3(2):30 - 36