IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 1, Issue 3, January 2021

Programming Languages: From Assembly to Web Assembly

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Abstract: This research explores the dynamic journey of programming languages, tracing their evolution from the foundational Assembly language to the contemporary realm of WebAssembly. By delving into historical developments, language paradigms, and technological advancements, the study aims to elucidate the pivotal transitions that have shaped the programming landscape. Emphasis is placed on the revolutionary advent of WebAssembly, assessing its role in overcoming traditional barriers and facilitating cross-platform execution. Through comprehensive analysis, this research illuminates the transformative impact of programming language evolution, offering insights into the efficiencies, challenges, and prospects introduced by the progression from Assembly to the versatile Web Assembly environment.

Keywords: Programming, language, evolution, Web Assembly, trajectory, Software, development

