

Programming Platforms and Paradigms



What is Software?

Wikipedia - “Computer software, or simply software, is a collection of data or computer instructions that tell the computer how to work”



Who is the developer?

Technopedia - “A developer is an individual that builds and create software and applications. He or she writes, debugs and executes the source code of a software application.”



Software Platforms

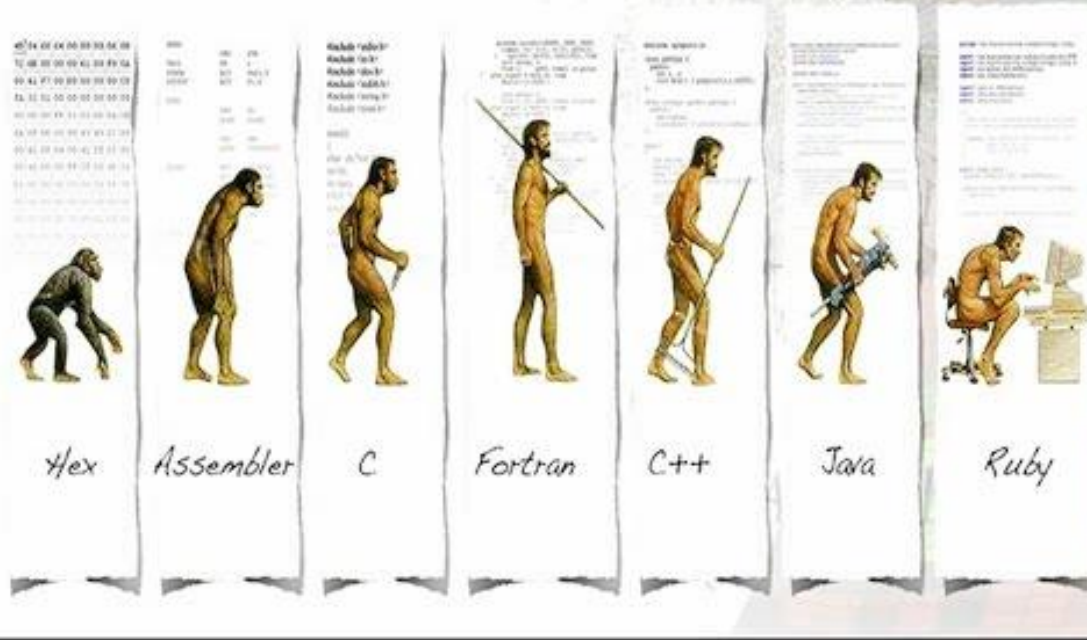
Desktop - Windows, Linux, IBM, macOS, Solaris, ...

Mobile - Android, iOS, BlackBerry, Symbian, Windows Phone, ...

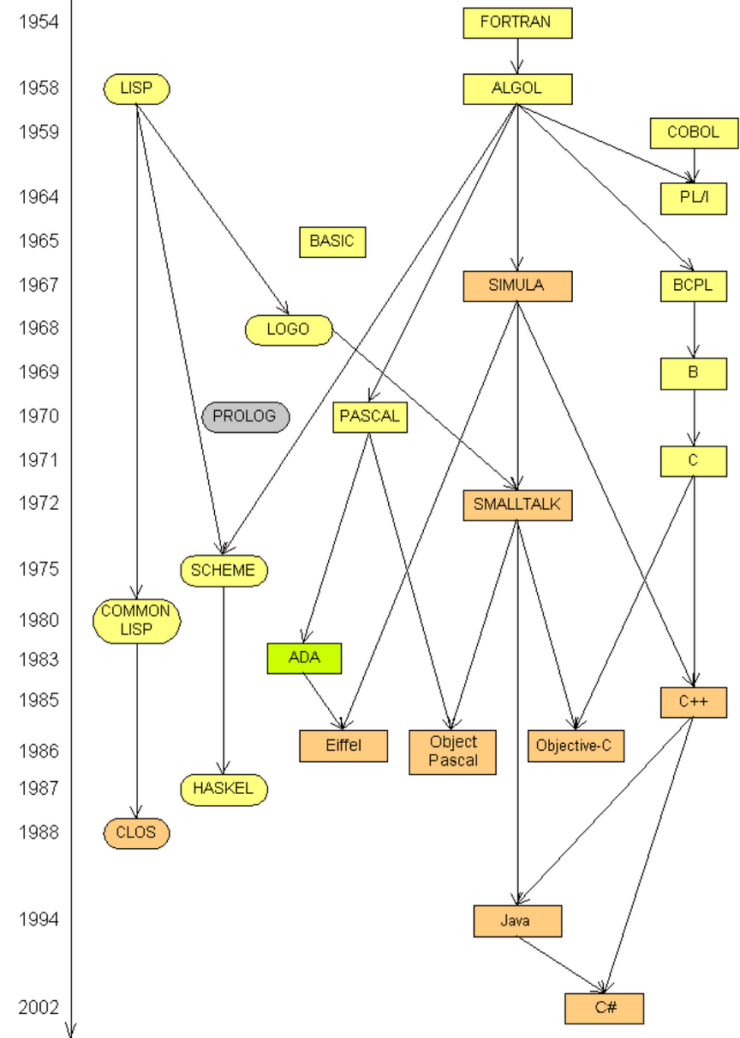


Evolution of Languages

The Evolution Of Computer Programming Languages



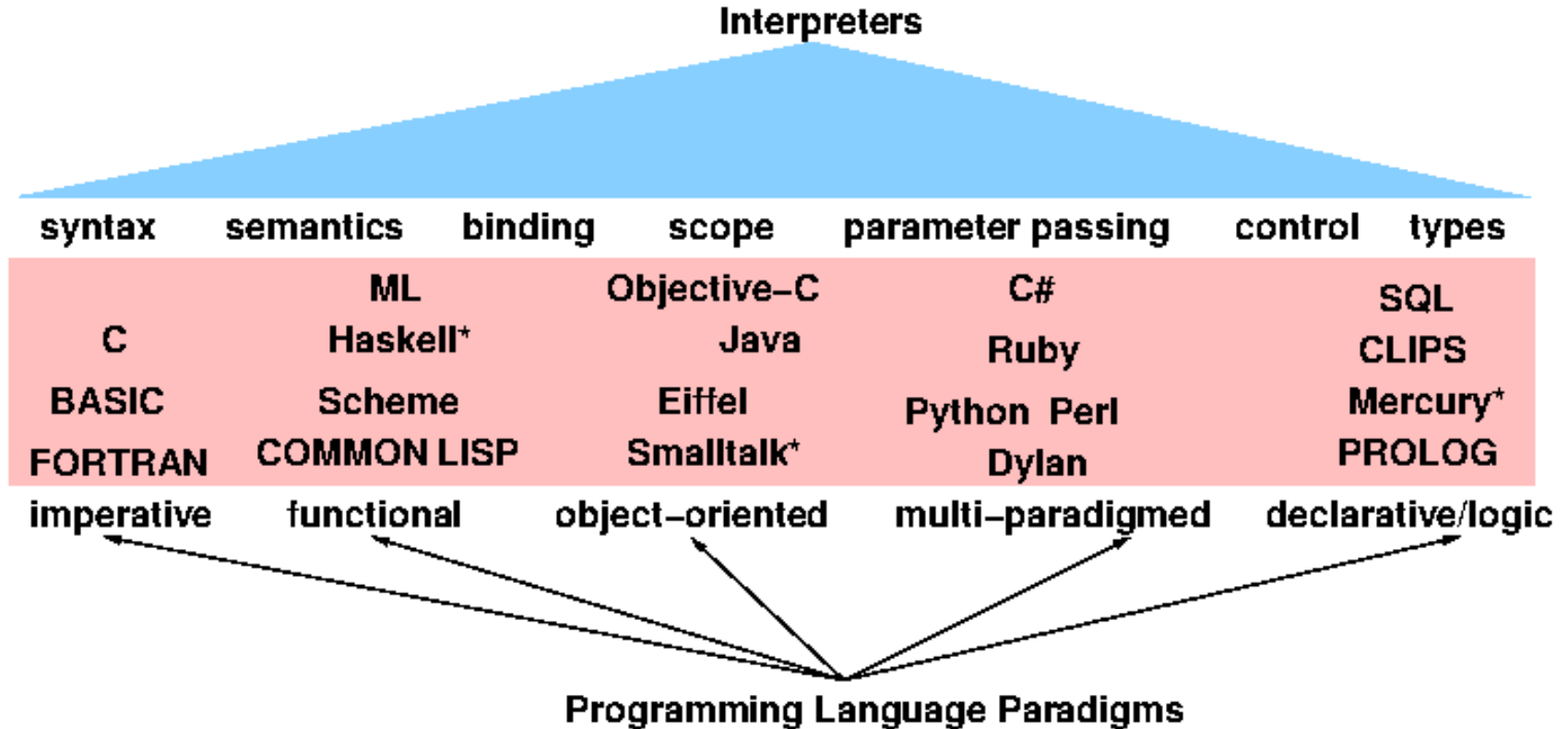
Evolution of Languages



Programming Language Paradigm

- Imperative in which the programmer instructs the machine how to change its state,
 - Procedural which groups instructions into procedures,
 - Object-oriented which groups instructions together with the part of the state they operate on,
- Declarative in which the programmer merely declares properties of the desired result, but not how to compute it
 - Functional in which the desired result is declared as the value of a series of function applications,
 - Logic in which the desired result is declared as the answer to a question about a system of facts and rules,
 - Mathematical in which the desired result is declared as the solution of an optimization problem

Programming Language Paradigm



Most Populars - Stackoverflow

<https://insights.stackoverflow.com/survey/2019>

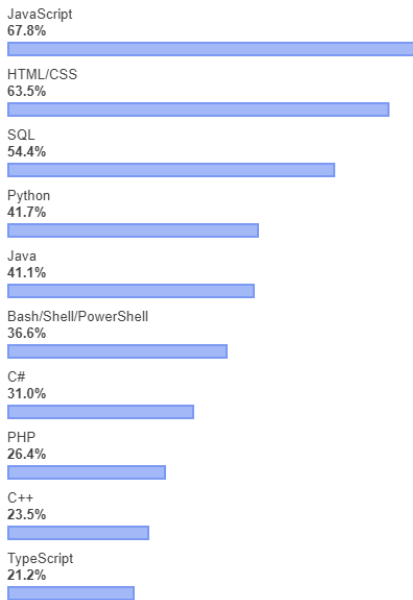
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Most Popular Technologies

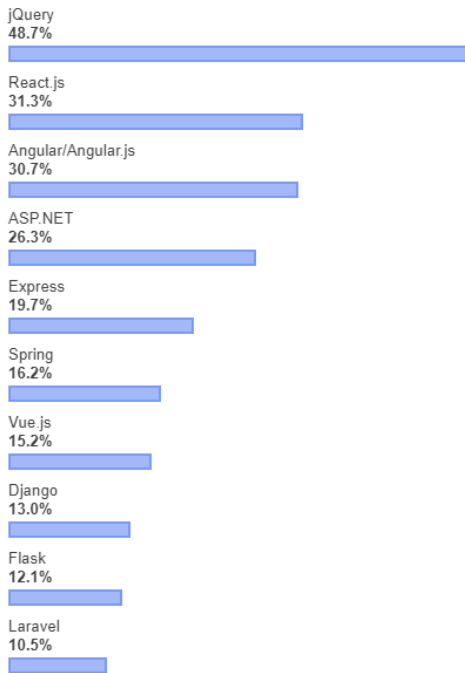
Programming, Scripting, and Markup Languages

All Respondents



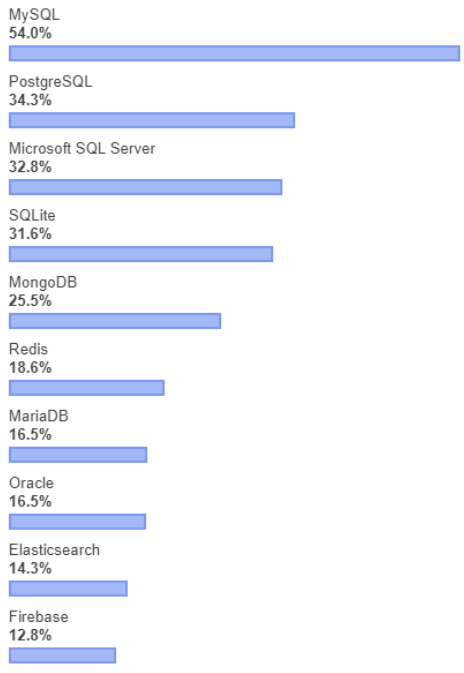
Web Frameworks

All Respondents



Databases

All Respondents



How Technologies Are Connected

