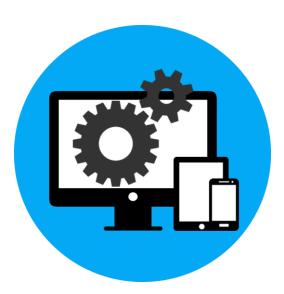
Programming Platforms and Paradigms



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."



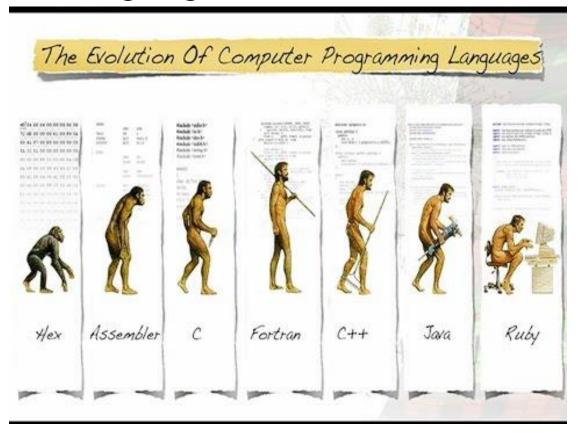
Software Platforms

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

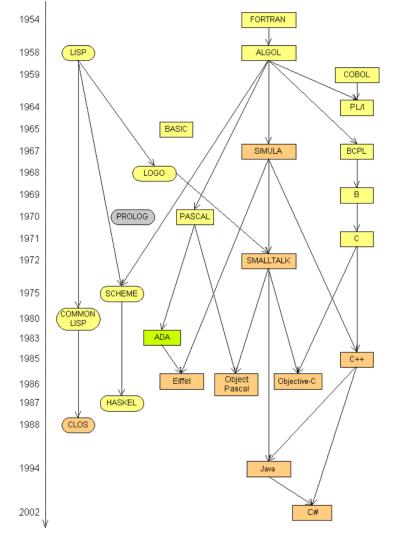
Mobile - Android, iOS, BlackBerry, Symbian, Windows Phone, ...



Evolution of Languages



Evolution of Languages

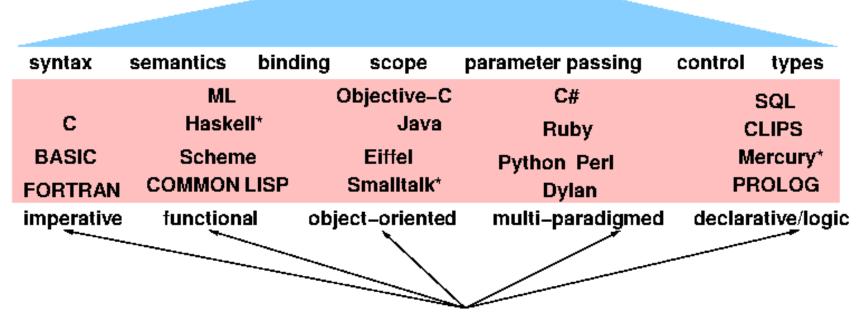


Programming Language Paradigm

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

Programming Language Paradigm

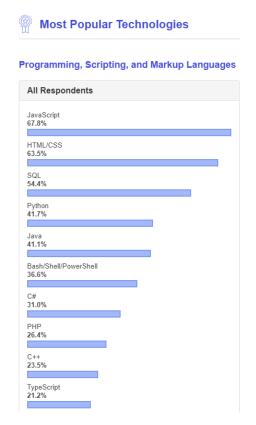
Interpreters



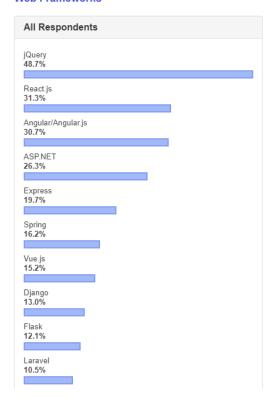
Programming Language Paradigms

Most Populars - Stackoverflow

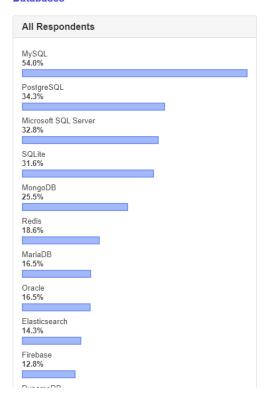
https://insights.stackoverflow.com/survey/2019



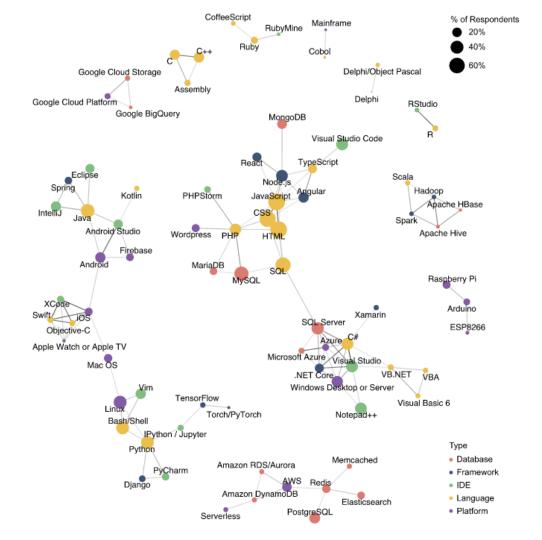
Web Frameworks



Databases



How Technologies Are Connected



Homework

- 1. Research about Programming Languages (Assembly, C, JavaScript, C#)
 - a. Hansi Paradigmalara uygundur
 - b. Hansi Sahelerde isitifade olunur
 - c. Ustunlukleri
 - d. Zeiflikleri

1. Check out https://insights.stackoverflow.com/survey/2019#technology