History of Computer Languages

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What are Computer Languages

- The documentation of early mechanical computers
  -> modern software development tools
- Charles Babbage, founder of the computer
- Computer languages solve the problem of difficulty
Von Neumann

*The Shared Program Technique*

- Simple hardware, complex instruction set

*Conditional Control Transfer*

- Code should jump around. Not fixed to run in order.
Early developments

- ENIAC
- Plankalkül
- Compilers
- FORTRAN
- COBOL
- LISP
- ALGOL

1960s-1970s

- 1967 – BCPL (forerunner to B)
- 1968 – Logo
- 1969 – B (forerunner to C)
- 1970 – Pascal
- 1970 – Forth
- 1972 – C

- 1972 – Smalltalk
- 1972 – Prolog
- 1973 – ML
- 1975 – Scheme
- 1978 – SQL (a query language, later extended)

1980s

- Decade of consolidation within imperative languages
- Object Oriented Programming
- RISC Movement
- C++, Objective-C

The Internet and its Languages

- **Internet = new possibilities**
  - JavaScript, PHP
- Transitioning from imperative languages to functional languages
- RAD, IDEs
- Scripting Languages

Today

- Mobile applications
  - Android (Java), IOS (Swift)
- Scratch
- Go
- Rust
- Kotlin

https://bizibl.com/marketing/article/next-generation-apps
Most Popular Programming, Scripting, and Markup Languages

Resources

https://en.wikipedia.org/wiki/History_of_programming_languages

https://cs.brown.edu/~adf/programming_languages.html


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