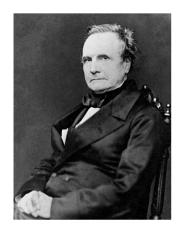
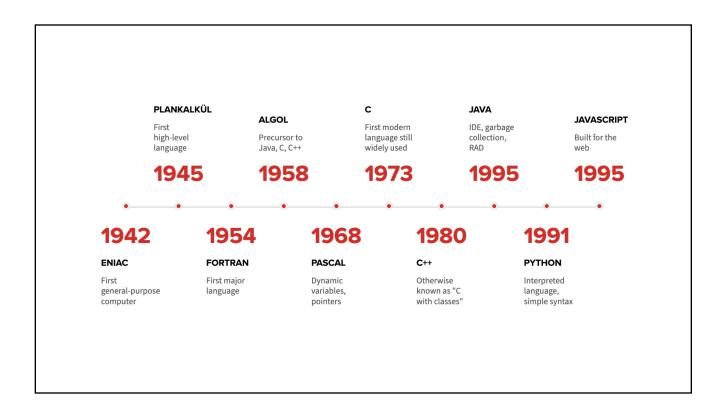
History of Computer Languages

By Lucas Marcondes and Kaden Sukachevin

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

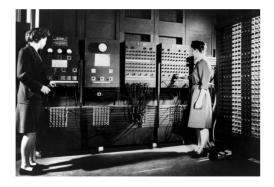
Conditional Control Transfer

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



Early developments

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



https://www.computerhistory.org/revolution/birth-of-the-computer/4/78

1960s-1970s

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

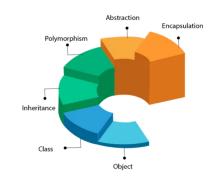
- 1972 Smalltalk
- 1972 Prolog
- 1973 ML
- 1975 Scheme
- 1978 SQL (a query language, later extended)

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

1980s

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

OOPs (Object-Oriented Programming System)



https://francescolelli.info/tutorial/object-oriented-programming-a-curated-set-of-resources/

The Internet and its Languages

Internet = new possibilities
JavaScript, PHP

Transitioning from imperative languages to functional languages

RAD, IDEs

Scripting Languages

- 1990 Haskell
- 1991 Python
- 1991 Visual Basic
- 1993 Lua
- 1993 R
- 1994 CLOS (part of ANSI Common Lisp)
- 1995 Ruby
- 1995 Ada 95
- 1995 Java
- 1995 Delphi (Object Pascal)
- 1995 JavaScript
- 1995 PHP
- 1997 Rebol

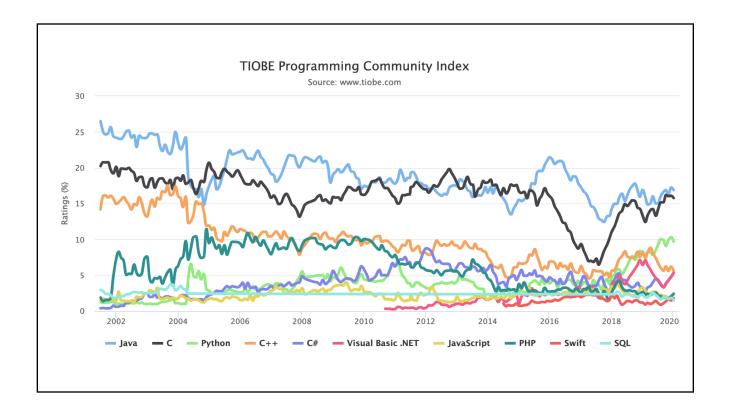
Source: https://en.wikipedia.org/wiki/History of programming languages

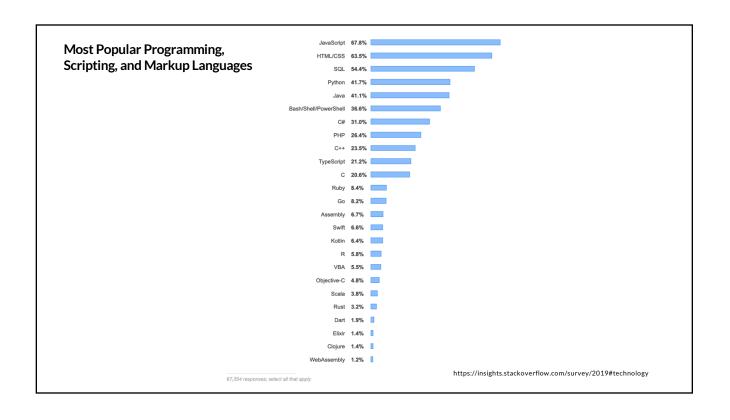
Today

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



https://bizibl.com/marketing/article/next-generation-apps





Resources

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

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

https://en.wikibooks.org/wiki/Introduction_to_Software_Engineering/Tools/Compiler#History

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