



HISTORY OF PROGRAMMING

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The Beginnings (1800s–1940s)



- Charles Babbage (1830s): Designed the Analytical Engine, the first concept of a programmable machine.
- Ada Lovelace: Wrote the first algorithm for Babbage's machine → considered the first programmer.
- 1930s–1940s: Alan Turing and Konrad Zuse laid the mathematical foundations of computation.



The First Programming Languages (1940s–1950s)



- Early computers used machine code (binary).
- Assembly language introduced mnemonics for easier coding.
- FORTRAN (1957): First high-level language (by IBM).
- COBOL (1959): Created for business applications.



Structured and Object-Oriented Programming (1960s–1980s)



- C (1972): Powerful system programming language.
- Pascal (1970), ALGOL: Introduced structured programming.
- Influences later languages like C++ and Java.
- Smalltalk (1980s): Birth of object-oriented programming (OOP).



The Internet Era & Modern Languages (1990s–2010s)



- Java (1995): “Write once, run anywhere.”
- Python (1991): Emphasized simplicity and readability.
- JavaScript (1995): Revolutionized web interactivity.
- Open source movement expanded collaboration.



The Present & Future (2010s–Now)



- Rise of modern frameworks (React, TensorFlow, etc.).
- AI & Data Science drive language popularity (Python, R, Julia).
- New trends: Rust, Go, and TypeScript for safety and performance
- Future: Quantum computing & AI-assisted coding (like GitHub Copilot).





THANK YOU

