Turiba University

(SONAM)

(History Of Programming Language)

Professional Bachelor's Degree

COMPUTER SYSTEM

Author: **(Sonam)**

***Thesis* Advisor:**   **(Jānis Pekša, Dean of IT Dept.)**
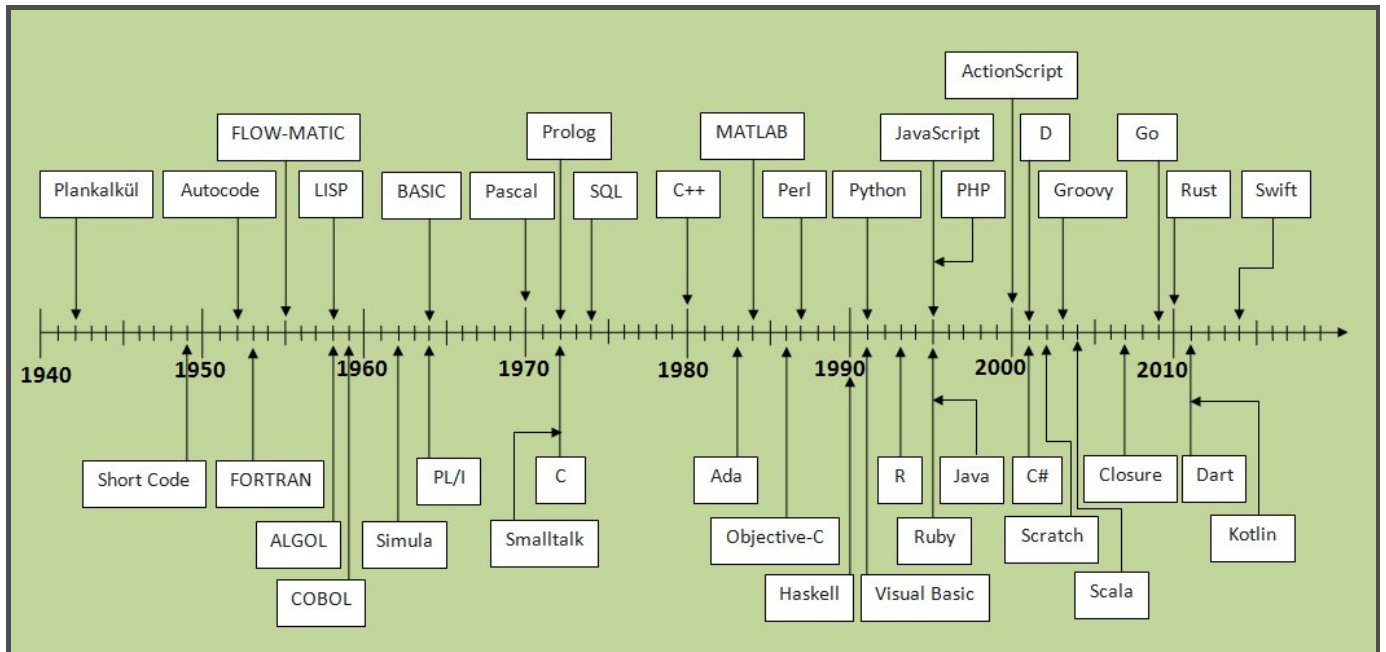
Riga, 2025

Introduction

The history of programming language began in 1843, when a woman named Ada Lovelace (one of the earliest feamle mathematicians) worked with Charles Babbage on his very early mechanical computer, the Analytical Engine.
While Babbage was concerned with simply computing numbers, Lovelace saw that the numbers the computer worked with could represent something other than just amounts of things.

She wrote an algorithm for the Analytical Engine that was the first of its kind. Because of her contribution, Lovelace is credited with creating the first computer programming language.

Key milestones in Programming Language

1957: Fortan
1958: Algol
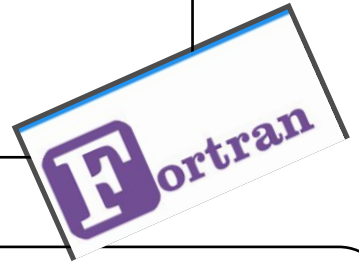**1959: COBOL**
1959: LISP
1964: BASIC
1970: Pascal
1972: Smalltalk
1972: C

In Detail

1957: **Fortan** **A computer programming language created by John Backus for complicated scientific, mathematical, and statistical work, Fortan stands for** *Formula Translation***. It is the one of the oldest computer programming languages still used toady.**

1958: **Algol** **Created by a committee for scientific use, Algol stands for** *Algorithmic Language* **Algol served as a starting point in the development of language such as C, C++ and Java.**
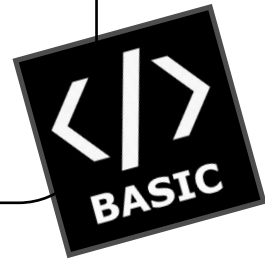

1959: **COBOL** **Created by Dr. Grace Murray Hopper as a computer programming language that could run on all brands and types of computers. COBOL stands for** *COmmon Business Oriented Language***.**

1959: **LISP** **Created by John McCarthy of MIT, LISP is still in use. It stands for** *LISt Processing language***. It was originally created for artificial intelligence research but today can be used in situations where Ruby or Python are used.**
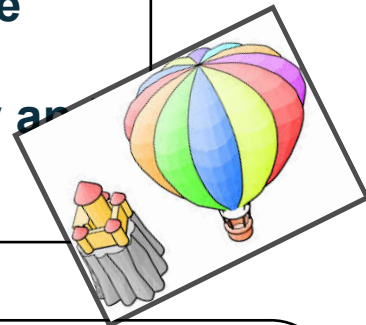
1964: BASIC Developed by John G. Kemeny and Thomas E. Kurtz at Dartmouth College so that students who did not have a strong technical or mathematical understanding could still used computers, it stands for Beginner's All- purpose Symoblic Instruction Code. A modified version of BASIC was written by Bill Gates and Paul Allen. This

1970: Pascal Developed by Niklaus Wirth, Pascal was named in honor of the French mathematician, physicist and philosopher Blaise Pascal. It is easy to learn and was originally created as a tool for teaching computer programming. Pascal was the main language used for software development in Apple's early years.

1972: Smalltalk Developed by Alan Kay, Adele Goldberg, and Dan Ingalls, Smalltalk allowed computer programmers to modify code on the fly and also introduced other aspects

1972: C Developed by Dennis Ritchie at Bell Labs, C is considered by many to be the first high level language. A high- level computer programming language is closer to human language and more removed from the machine code.