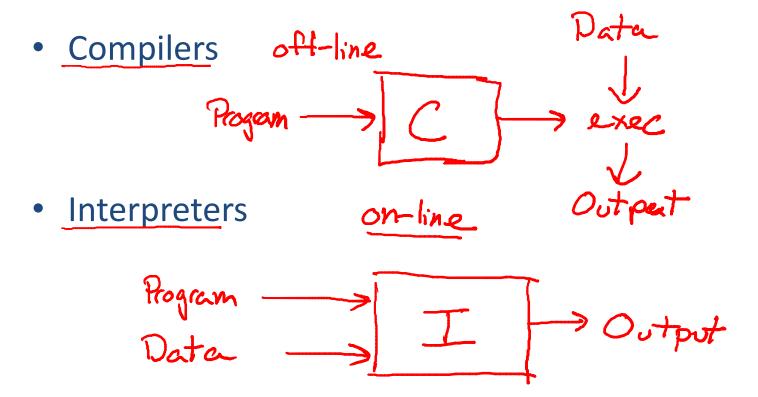


Compilers

Introduction



- 1954 IBM develops the <u>704</u>
 - Successor to the 701

software > hardware



"Speedcoding"

1953



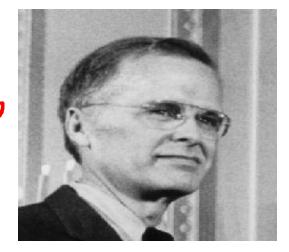
John Backus

FORTRAN I

FORMULAS TRANSLATED

1954-1957

1958 50% programs in FORTRAD



John Backus

- The first compiler
 - Huge impact on computer science

Led to an enormous body of theoretical work

Modern compilers preserve the outline of FORTRAN I

- 1. Lexical Analysis
- 2. Parsing
- 3. Semantic Analysis
- 4. Optimization
- 5. Code Generation Translation

Syntactic

Types scope