



Often work at job with 1-2 languages.

- Why is C like FORTRAN like Pascal not like LISP not like Java? What are the characteristics that they share? Differ?
- If we can describe the characteristics that make a family of languages similar, then we can come up with a modeling language to represent the characteristics.

Why understand programming languages?

- To improve ability to develop effective algorithms
- To increase vocabulary of useful programming constructs
- To allow a better choice of programming language
- To make it easier to learn a new language
- To make it easier to design a new language

History
1950 s:
– FORmula TRANslator
• FORTRAN
 International Algorithmic Language
IAL, became Algol
 Common Business Oriented Language
• COBOL
 – LISt Processing Language
• Lisp

















- rather than available data
- Program development proceeds by developing functions from previously developed functions
- Example Program divide(sum(data),count(data))
- Example Languages – LiSP



