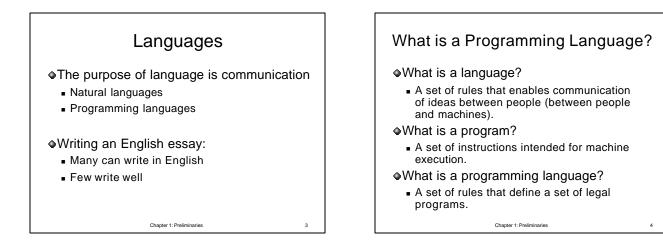
Chapter 1 Preliminaries

Topics

Motivation
 Programming Domains
 Language Evaluation Criteria
 Language Design Trade-Offs
 Influences on Language Design
 Language Categories
 Implementation Methods

Chapter 1: Preliminaries



I already know a Programming Language

Why do I need to learn the concepts of programming languages?

- I already know the latest/greatest/coolest programming language.
- I can solve any problem using the programming language that I already know.

Chapter 1: Preliminaries

What is the best Programming Language?

- Java
- ⊕ C
- C++ ● Perl
- Python
- Visual Basic
- Lisp
 Pascal
- Smalltalk
 Haskell

Prolog

Modula-2

Fortran

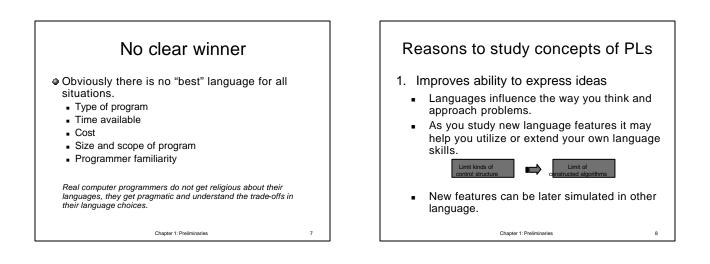
Cobol

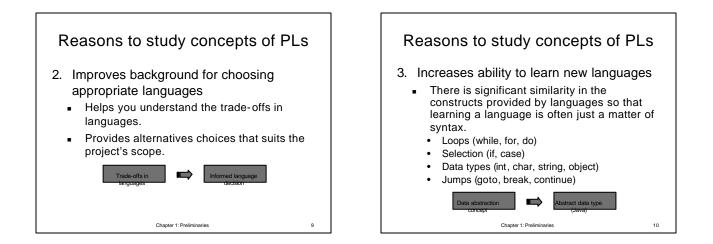
. ML

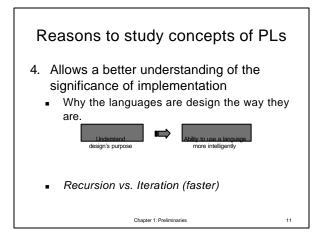
- d
- Algol

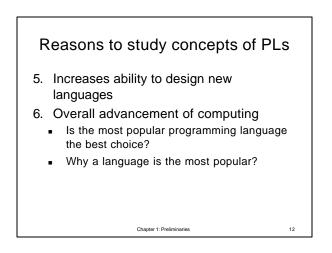
Chapter 1: Preliminaries

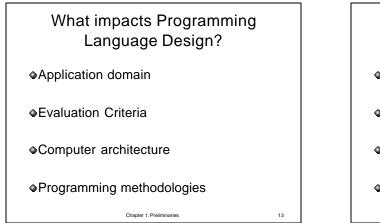
6

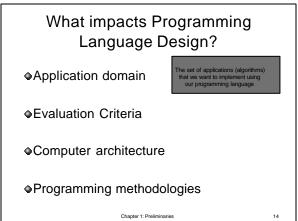


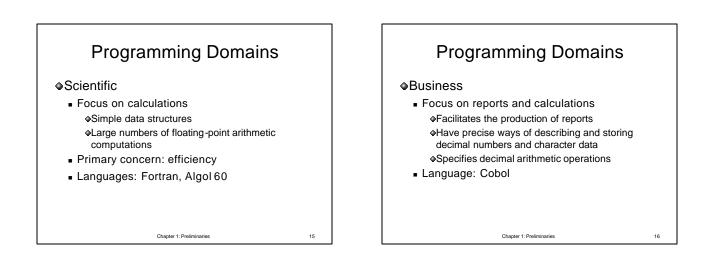




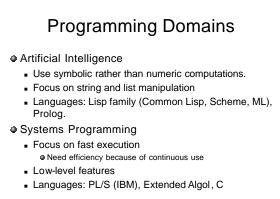








17



Chapter 1: Preliminaries



Scripting Languages

 Putting a list of commands (script) in a file to be executed.

Little code

- Generally domain specific
- Usually interpreted
- Languages: sh and ksh (for shell), awk (report-generation), tcl and tk (X Windows), Perl (CGI programming), JavaScript, PHP

Chapter 1: Preliminaries

