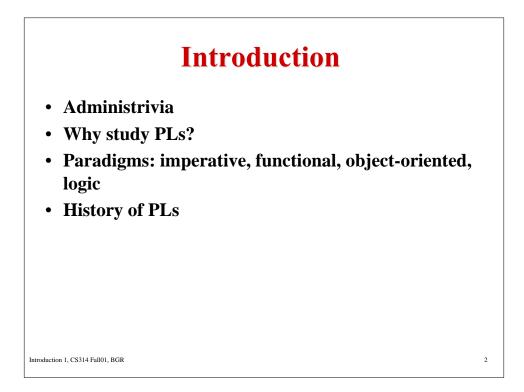
198:314, Sects1-3 Principles of Programming Languages Fall 2001

Prof. Barbara G. Ryder Core 311, 732-445-3699 ryder@cs.rutgers.edu http://www.cs.rutgers.edu/~ryder

Introduction 1, CS314 Fall01, BGR



1

198:314 Fall 2001

Class webpage

- http://remus.rutgers.edu/cs314
- Look at for course information, rules, grading, important dates, etc.
- Read policy on academic dishonesty
- Co-ordinated class, all programming projects, book homeworks and tests are same across all lectures
- MW5 Lecture webpage
 - http://remus.rutgers.edu/cs314/f2001/ryder/
 - Lecture notes available online in pdf
 - Only print out 2-up or 4-up to save paper
 - Recitation attendance and participation counts in your final grade

3

4

• Four programming projects posted and submitted for grading electronically

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Syllabus

- Introduction
- Formal Languages RE's, FSA's
- Logic Programming (Prolog)
- Names and Binding
- Imperative Programming (C)
- Block Structure
- Object-oriented Programming (C++)
- Types
- Functional Programming (Scheme)
- Formal Languages Grammars
- Concurrency

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Course Goals

- To gain understanding of basic structures of programming languages
 - Types, control structures, naming conventions
- To study different language paradigms
 - To ensure an appropriate language is selected for a task
 - Object-oriented, functional, imperative, logic
- To make learning new programming languages easier by knowing shared features

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What is a programming language?

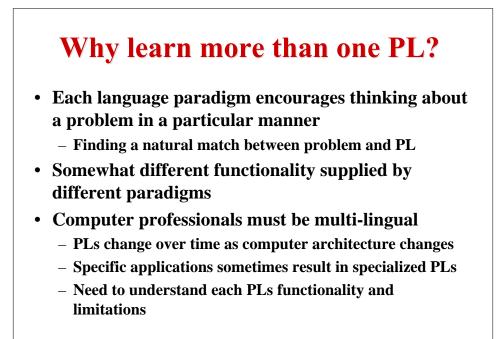
"a language intended for use by a person to express a process by which a computer can solve a problem" -Hope and Jipping

"a set of conventions for communicating an algorithm" - E. Horowitz

" the art of programming is the art of organizing complexity" - Dijkstra, 1972

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5



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