Module 1: Beginning Student Language

CPSC 110

Peyton Seigo

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- Expression: a value, primitive call, control structure; evalutes to a value
- Primitive call, or "call to primitive": expression with an operator and operand(s)
 - (<id><expr>*) where the number of <expr>s determines the number of arguments supplied to the function named by <id>.
 - Composed of a function identifier (a primitive) and one or more expressions
 - Evaluation: first reduce operands to values, then apply primitive to values
 - "call to string/image/number primitive", based on parameter type
- Function definition: define with a function name so that it may be called
 - Returns value of the last expression
 - "Racket programmers prefer to avoid side-effects, so a definition usually has just one expression in it's body" (2.2 Simple Definitions and Expressions)
- Function call or "procedure application": call to a defined function
- Predicate: a primitive or function that takes an input and returns a boolean value

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