

Programming Language Paradigms Lecture

Nicolas Andrew Burnett

September 13, 2021

1 Chapter 4

Lexical Analysis

- called lexer
- pattern matching
- find lexeme's and tokens
- includes skipping whitespace and comments
- methods of specifying lexers
 - Formal description using regex (or similar language)
 - * lexer for floats may be $[0-9]+backslash.[0-9]+$
 - Design state transition diagram. Use the design to write a program
 - * similar to an automaton
 - * uses a state diagram to parse each character
 - Design state transition diagram, but turn it into a table and write a table-driven program

Syntax Analysis

-