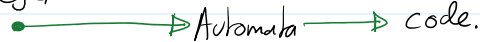


The flex lexical analyser

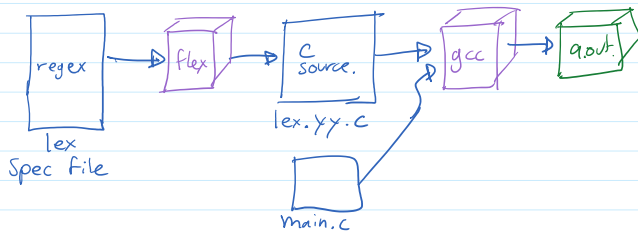
Specification

regex

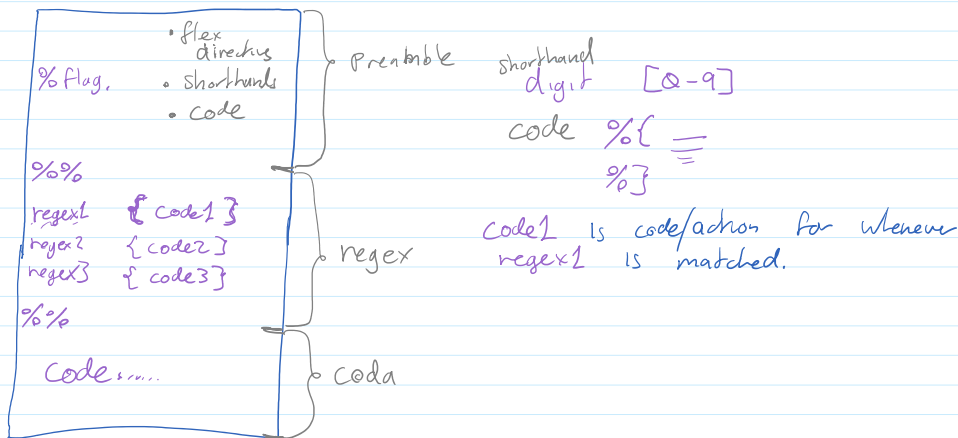


'70 by Mike Lesk, Eric Schmidt Lex for UNIX

- POSIX Standard.
 - ↳ RegEx now is available in many UNIX tools.
vi, emacs, ed, sed, awk,
- POSIX Reg-ex Standard
- FLEX
by Vern Paxson. for B.S.D.



• THE FLEX SPECIFICATION FILE:



• THE CODE GENERATED BY FLEX:

- Variables

yytext :- ntca, the last string matched
 yylen :- the length of yytext
 yyval :- the value attached to yytext.
 yyin :- the input FILE

- Functions

yylex() :- the lexical analyzer.
 yywrap() :- function to call when input is exhausted.
 yyinput() :- read one character from input.

• FLEX WORKFLOW:

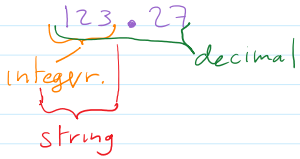


• FLEX WORKFLOW:

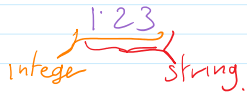
```

$ flex spec-file      → lex.yy.c
$ gcc -lfl lex.yy.c  → a.out
$ ./a.out.
    
```

• FLEX TIE-BREAKERS:



Note: • Flex prefers longest string over shorter string.
 decimal



• Flex prefers the first regular expression on file
 integer.



- EOF -