Recitation 16: Interpreters

22

11 + 11

11
$$\neq$$
 3

(10 + 5) \neq 7

10 + 2 \neq 3 = 16

$$10.+.(5+6)+6*-3$$

Lexing

10 + (5 + 6) + (6
$$\pm$$
 3)

Parsing

+ Abstract

Syntax

tvee

(0 5 6 6 3

Evaluation

Parser

Menhir: parser generator Menhir

.mly -> .ml

Lexer

ocamplex

.mll -> .ml

$$10.+(5+6).+.5 \times 2$$
 $10+(5+6)+5 \times 2$
 $10+(5+6)+5 \times 2$
 $10+(5+6)+5 \times 2$
 $10+(10+1)$
 $10+(10+1)$