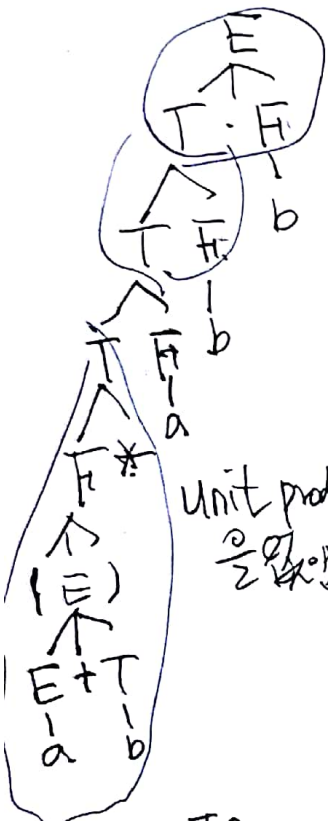


Regular language - linear structure - linear list (skewed tree)
 context-free language - hierarchical structure - tree \rightarrow unique nonterminal to be rewritten
 many nonterminals to be rewritten (\Rightarrow)

CFG for regular exp

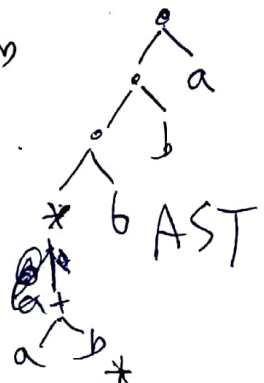
$(a+b)^*abb$ \rightarrow tree의 모양은 $\in \Sigma$ unit prod. $A \rightarrow B$

$E \rightarrow E \cdot T \mid T \cdot F \mid F^* \mid (E) \mid \phi \mid \epsilon \mid ab$	$E \rightarrow E \cup T \mid T$
$T \rightarrow T \cdot F \mid F \cdot (E) \mid F^*$	$T \rightarrow T \cup F \mid F$
$F \rightarrow \phi \mid \epsilon \mid a \mid b \mid (E) \mid F^*$	$F \rightarrow \phi \mid F^*$
$P \rightarrow \phi \mid \epsilon \mid a \mid b \mid (E)$	$P \rightarrow \phi \mid (E)$

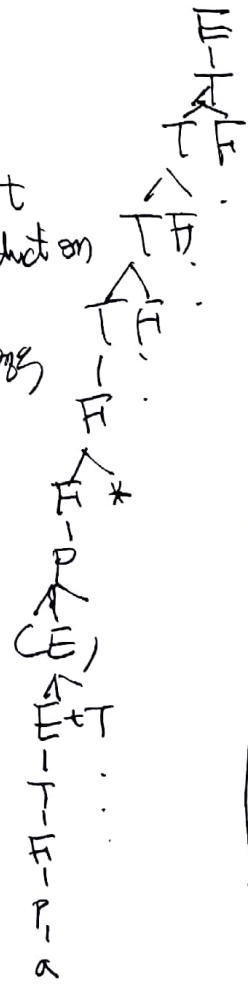


$E \xrightarrow{Lm} TF \xrightarrow{Lm} TFF \Rightarrow TFF\bar{F}$

unit production
 \Rightarrow Σ 의 원소



unit production
 의 약칭



$S \Rightarrow_{Lm} \alpha, \alpha \in \Sigma^*$

$\pi_L \in P^*$... left parse

$S \Rightarrow_{Rm} \alpha, \alpha \in \Sigma^*$

$\pi_R \in P^*$... right parse
 π_R^R ... reversal of π_R

5/1까지 Project #1
 Dijkstra's mini-language
 \rightarrow Abstract Syntax Tree
 lex or yacc
 ALB 용 모든 파일
 4/3 \rightarrow 5/1까지 presentation
 23명 x 2분 발표
 1분 토론
 69분
 Project #2
 AST \rightarrow # program in some HL

- 4.3 Ambiguity of Grammars
- 4.4 Useless and Nullable Symbols