

# 6/5(7) LR(LL) Parsing

yacc

LR(0) → SLR(1) → LALR(1) → yacc

LR(0) = LR(0) state  $\frac{1}{2}$

2/3 LR(1) or  $\frac{1}{2}$  ~~LR(1)~~

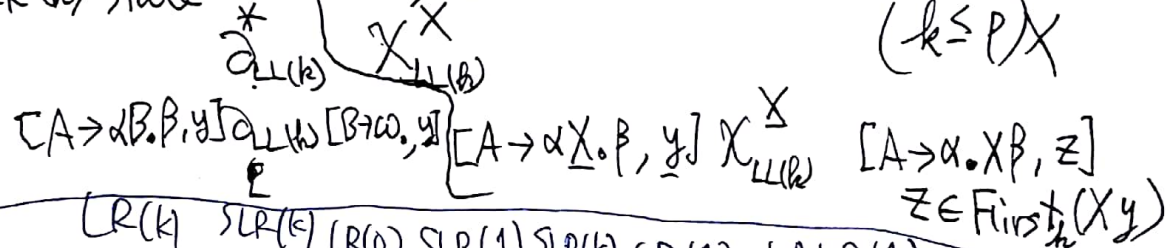
(shift) (reduce)  
state looked

- LR(0) — LR(0) state,  $\epsilon$ -lookahead
- SLR(1) — LR(0) state, Follow(A) lookahead
- LALR(1) — LR(0) state, LR(1) lookahead
- LR(1) — LR(1) state, LR(1) lookahead

- LR(0,0)
- ~~LR(1,?)~~
- LR(0,1)
- LR( $\emptyset$ ,1)

## LL(k) parsing.

k-item. LR(k) state  $[S' \rightarrow S \cdot \epsilon]$



LR(k, p) parsing  
(k ≤ p)

$[A \rightarrow \alpha \cdot X \beta, z]$   
 $z \in \text{First}_k(X\beta)$

LR(k) SLR(k) LR(0) SLR(1) SLR(k) LR(1) LALR(1)

50% ~	3	0	17	0	0	4	3
30% ~ 50%	17	6	5	12	14	18	18
10% ~ 30%	1	14	0	10	8	0	1
~ 10%	0	1	0	0	0	0	0
0	0	0	0	0	0	0	0
	21	21	22	22	22	22	22

→  
이항  
시간