

Z1 2007



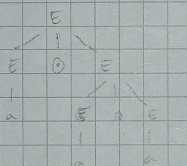
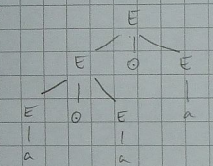
1)  $\Phi - NMA \rightarrow NMA$

$$\Phi - NMA \quad M_1 = (Q, \Sigma, \delta, q_0, F)$$

$$NMA \quad M_2 = (Q', \Sigma', \delta', q'_0, F')$$

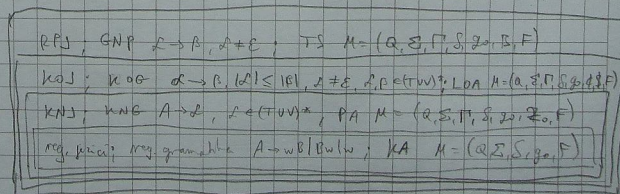
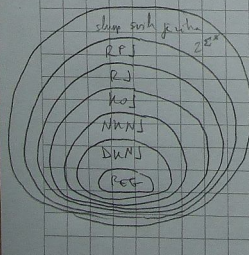
- $Q' = Q$
- $\Sigma' = \Sigma$
- $q'_0 = q_0$
- $F' = F \cup \{g_0\}$  ako  $\Phi$ -ok  $\{g_0\} \in F$ , inače  $F' = F$
- $\delta'(g, a) = \epsilon\text{-ok}(\delta(\epsilon\text{-ok}(g), a)) = \delta(g, a)$

2) njednoznačnost KNP  
 - moguće je ispisati više različitih stabala (primjenom istog skupa  
 pravila)  
 npr.  $E = \{ \{ \{ E \}, \{ \{ a, \emptyset \} \}, \{ \{ E \} \rightarrow E \in \{ a, \emptyset \} \} \}$   
 miz a o a o a



3) odlučivanje vrijednih znakova - oni koji ne generiraju niz znakova  
 • u ovom slučaju - riječi su znakovi  
 - dakle sadrže samo završne znakove  
 → struktura - učitavanje znakova pod lupu s dnu sadrže samo završne znakove  
 ⇒ preostali znakovi = mitovi

4) izrazi



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5) predavanje  $KOJ \xrightarrow{2} KOJ$   
 da, ali u skup produkcijskih različitih završnih znakova a dajemo  $A \rightarrow a$ ,  
 te u svaki od produkcijskih umjesto a pišemo  $A_a \Rightarrow a' \rightarrow a'$  umjesto  $a \rightarrow a$   
 dajmo  
 $S_3 \rightarrow S_1 S_2$   
 $V_3 = V_1 V_2 \cup \{S_3\}$ ,  $S_3 \notin V_1$ ,  $S_3 \notin V_2$ ,  $V_1 \cap V_2 = \emptyset$   
 $T_3 = T_1 \cup T_2$   
 $P_3 = P_1 \cup P_2 + S_3 \rightarrow S_1 S_2$   
 - tjera se produkcijski  
 - infuzivno  $N \rightarrow Z$

	a	S	v	
✓ $g_0$	0	2	2	1
✓ $g_1$	1	0	0	0
✓ $g_2$	2	3	1	0
✓ $g_3$	3	1	2	1
$g_4$	7	2	1	0
$g_5$	4	0	1	1
✓ $g_6$	6	3	1	0
✓ $g_7$	1	2	0	0

$$\begin{aligned} \Pi_{11} &= \{g_0, g_3\} & \Pi_{21} &= \{g_1, g_2, g_6, g_7\} \\ \Pi_{12} &= \{g_0, g_3\} & \Pi_{22} &= \{g_1, g_2\} \\ \Pi_{31} &= \{g_0, g_3\} & \Pi_{32} &= \{g_1, g_2\} \\ \Pi_{41} &= \{g_0, g_3\} & \Pi_{42} &= \{g_1, g_2\} \end{aligned}$$

$$g_0 = g_7, \quad g_1 = g_2, \quad g_2 = g_6$$

	0	1	2	
$g_0$	0	1	2	1
$g_1$	1	2	0	0
$g_2$	2	0	1	0

6)  $\{0, 1, 2\}$ , prema 01 i 21

$$\begin{aligned} S &\rightarrow S & S &\rightarrow 1S & A &\rightarrow 0A | 2A \\ S &\rightarrow A & S &\rightarrow 0A & & \\ S &\rightarrow B & S &\rightarrow 2A & & \end{aligned}$$

8)  $L = \{a^i b^j c^k d^l \mid i \geq 1\}$

$$\begin{aligned} S &\rightarrow aABcd \\ A &\rightarrow aAC & B &\rightarrow bBD & C &\rightarrow bC & D &\rightarrow cD \\ A &\rightarrow \epsilon & B &\rightarrow \epsilon & C &\rightarrow cc & D &\rightarrow dd \end{aligned}$$

9) gram  $KOJ$   $0^n 1^m 2^{2n}$ ,  $n > 0$

$$\begin{aligned} S &\rightarrow 0AM122 | \epsilon \\ A &\rightarrow 0A1 | \epsilon \\ 1 &\rightarrow 1111 \\ 2 &\rightarrow 11 \\ 2 &\rightarrow 22 \end{aligned}$$