Zalladu pojung - vyrolora l pred legita a > b = 7avb $\forall x \varphi(x) = 737 \varphi(x)$ JX P(X) - Un A AB - zápis {1,2,3 }, NE: (1,2/3), [1,2/3] - Cartershy source A1 x A2 x. An = { (a1, ..., an) | a, EA, ..., an} - relace Sne An An = S & Anx --- x An - Vlastushi: - souvisla lin. relace PEAXA: Ha, bEA: a≠b ⇒ aPb v bQa - reflectioni, i reflectioni - symetrica, asymetrica a autisymetrica

-transitions
- transition uz velace 9t
- refle. a - 11
- Proivalence varilad
L'aefle, syn, traur.
- ostre/weasher uphre/castlene usparadami
- funcie f: A > B : f \(A \times B \) fatoral, te
1) tacA] beB: f(a) = b [neboli (a,b)ef] \ \
1) tacA] beB: f(a) = b [weboli (a,b)ef] 2) tacA + b1, b2 cB: f(a) = b1 , f(a) = b2 > b1 = b2 a
imeter 1: A>B no t-co betong to
VanazeA + be B: fla, 1 = b x flaz 1 = b → an = az az 36
- surfici (robrasem na unorium):
Hbeb JaeA: f(a)=6
- bijerce: injerce + songere
- spoelha mnozina A: ex. bijeke f: A => N
-ormálni jazyky

- abeleda
$$\bar{z}$$
- $jizg$ 2 $L \subseteq \bar{z}^{+} = \bar{z}^{0} \cup \bar{z}^{1} \cup \bar{z}^{2} \cup ... = U \sum_{n \ge 0}^{n}$

- $perace$ $< unositione(: U, N, ...) + (* ude $L^{0} = \bar{z}\bar{z}\bar{z}$

- $perace$ $< speciallul : · $perace$$$

-PE (NUZ)*N"(NUZ)* x (NUZ)* ruyllest (x,B) +P, raprisje x >> B - S: stook relen., SEN - rpri à derivace : => [(NUZ)* x (NUZ)* falora', ze HAME(NUE)*: ABM @ JXB, PIJE INUE)*: A= #XJ~ m= #BJ~ (X>B)EP - L(6) = { WEZ* | S = W ? - moè e granatika 6 s providly: rapiste mn-ozinere jaryl heto goalit sa aa 1/11) = 2 an/ n = 13

B > 6B > 6B > 6B > - Urare grahlu G= (€S3, €a3, € € S>aS3, S). Zapriste unozirore jarol 6. L(6) = 0

Chousle'e llasifikal gv. a jazylu A > WBIW, hade ABEN, WEET - typ3 (RA) ude AEN, XE (NUZ)* $A \rightarrow \chi$ - typ2 (2A) XAB >XJB, Lde AEN, X,BE(NUZ), - typ 1 NE (NUZ)+ (LA) netor S > E polid E E L(6), v Lour pripade S ne na prove strone prep. providel. - typo meonsene

- tapisle unosinore jazyly generované na'sledejich granahikami a posudte typ dane granahily a typ jejiho jazyla: a) 6 = (253, 2013, 25 > 151/050/E3, S)

- L(G)= { WWR | WE E0,13* 3 - typ quality: 2 - top gåryka: 2 b) 6 = ({ \$ \$ | 23 | { a | b 3 | { 8 S > a \$ 5 | 2 | 2 > a 2 | 2 5 | 8 } , 8) Saasbaasbb? -L(6)= 2 a m 5 m | n, m 203 = aa 2 66 = 5=23 - typ grandly: 2 3 8 => aaa 2 66 => >) aaa 2666=> . topp jåzyla: 3 Daga Zbbbb=) > aaa bbbb L lse general

qualikon (25, A3, €9,63, €5>a5 | ♠, A>6A | €3, S)

- Sestrojle granahila, klera generaje relêzce mad £913 talore, te alsahaji sudy poeat nul i jednial. L= Ewt £0,15*/ #a/w) mod2=#b(w) mod2= P: S >> E 10A | 1B G= (£S,A,B,C3, £0,13,P,S) = 03 A >> 0S | 1C B >> 0C | 1S

C -> OB /1A

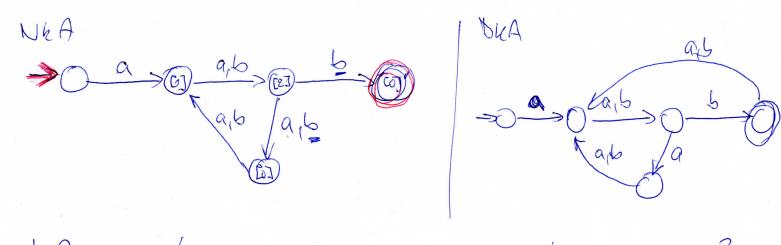
- Sestrojle gramatily bleta generuje zázyž ¿ a b c 1 n = 13. S-> a SBC | abC CB -> BC 6B -> 56 6C -> 6c } 8 -> 5 cC -> cc Mlo 6= (25, B, C 3, Ea, b, c3, P, S) Sestrojte granatiln, Eleta' generuje zazgl 2 a3m bm | n ≥ 13 P. S > AS | AaX Aa > aaa A

AX > X6/6

au (BC) u s=) asBC =) aasBCBC > => aaabCBCBC => = aaabBCCBC => =)aaabBCBCC =) =)aaa bbGBCC => > agabbaccc > Daaabbb CCC s → aaa 6666 c C C → Saaabbee C= > aaa 666 ccc

S > AS => AAS => > AAA X > AA aaa AX > >> Aaaa Aaa AX >> --= aaAaoAaa Ax =) ----=) a²⁷ 666

Koneine autoaly - M= (Q, E, J, go, F) 9.60, FCQ J: Qx 2 -> 2 Q DUA: tgeQ tacz: [J[q;a]] & 1, pal. J: QXZ - Q NKA: 7900 Facz: (0(9,0))>1 - houtigourose (q, W) E Q x Ex 491,92 = Q + W1, WZ = 3+: (91, W1) IT (92, W2)] a e z : W1 = a w2 1 92 e o (91,a), [NE: 92 = o (91)] - L(M) - { W = Z* | (qo, w) + (qf, E), qf = F } - Sestable toneinj automat, Elenj prijna jazyê L= 2 awb ∈ 2a,63+ / lawbl =361k≥0 €.



- Sestable KA prijnoja' jazy2 L= £9,53*. £9,533.

-0 a,b 9,5

- Lapoiste granahilu typu 2, Elexa' generaje jazgl L= 2 w c Eq, 63 + 1 #a (w) = #b (w) 3.

SABIBA SASRS