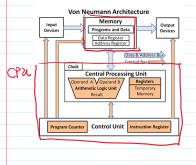
## Administricia:

. HWI due on Wednesday (4/16)

· Juiz next Monday (4/4)



Modeling/Thilo. Quarting Does DFA really coptinus CPU...?





Regular: representable by reg, expressions.

Automatic: accepting by DFAs.

Let's try to pure our first nontrivial result:
All regular languages are automatic.

⇒ Confort DFA for a RE.

Reg expression:

$$AB$$
  $L(A) \cdot L(B)$  ...  $A^*$   $L(A)^*$  ...

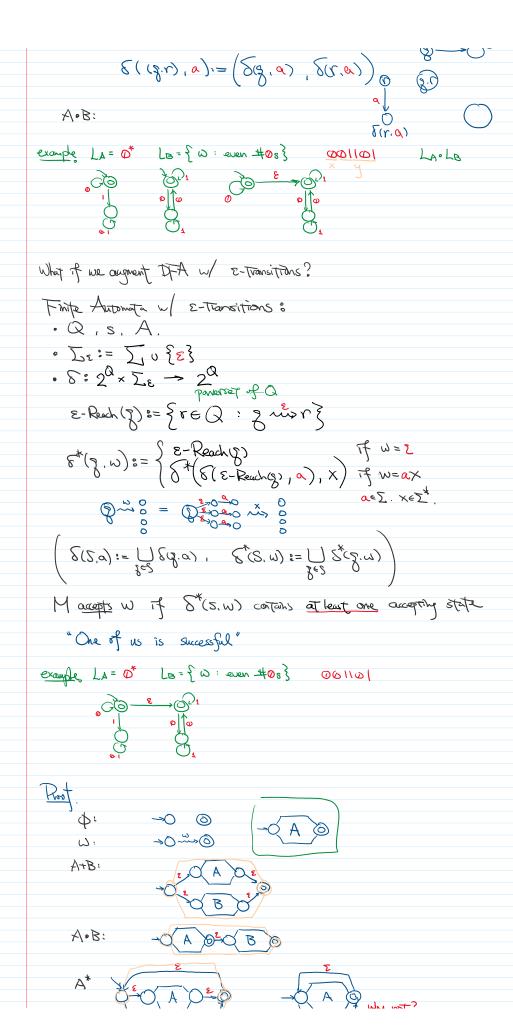
A+B: = DFAs MA.MB

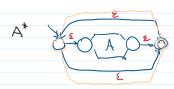
"Product construction"

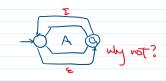
$$Q := Q_A \times Q_B \qquad S := (S_A, S_B) \qquad \sum_{i=1}^{n} \sum_{A_i} \sum_{B_i} \sum_{B_i} \sum_{A_i} \sum_{B_i} \sum_{B_i} \sum_{A_i} \sum_{B_i} \sum_{B_i} \sum_{A_i} \sum_{B_i} \sum_{B_i} \sum_{B_i} \sum_{A_i} \sum_{B_i} \sum_{B_$$

A:= 
$$\{(3.8) \in \mathbb{Q} : 3 \in \mathbb{A} \}$$

$$\mathcal{E}((g,r), \alpha) := \left(\mathcal{E}(g, \alpha), \mathcal{E}(r, \alpha)\right)_{\mathcal{O}} \mathcal{E}$$







thing Every regular language is our toward.



