DFA 9

lunes, 14 de marzo de 2022 1:28

$\forall x,y : (w = xay \Rightarrow |y|_b \in \dot{2})$

1- Aplicamos el complementario

$\neg \forall x,y : (w = xay \Rightarrow |y|_b \in \dot{2}) \equiv$

$\equiv \exists x,y : \neg (w = xay \Rightarrow |y|_b \in \dot{2}) \equiv$

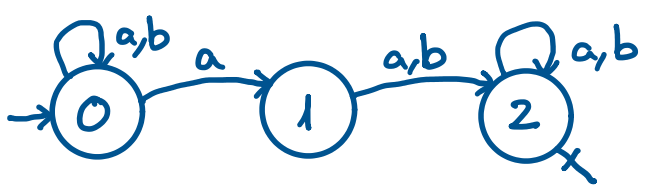
$\equiv \exists x,y : (w = xay \wedge |y|_b \notin \dot{2})$

$\neg \forall x : p(x) \equiv \exists x : \neg p(x)$

$\neg (p \to q) \equiv p \wedge \neg q$

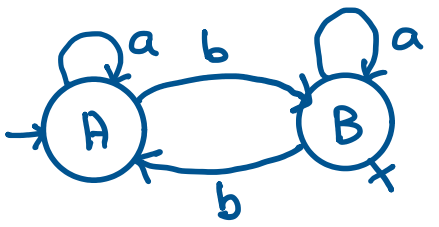
2- Describimos los autómatas por separado

$w = xay$:



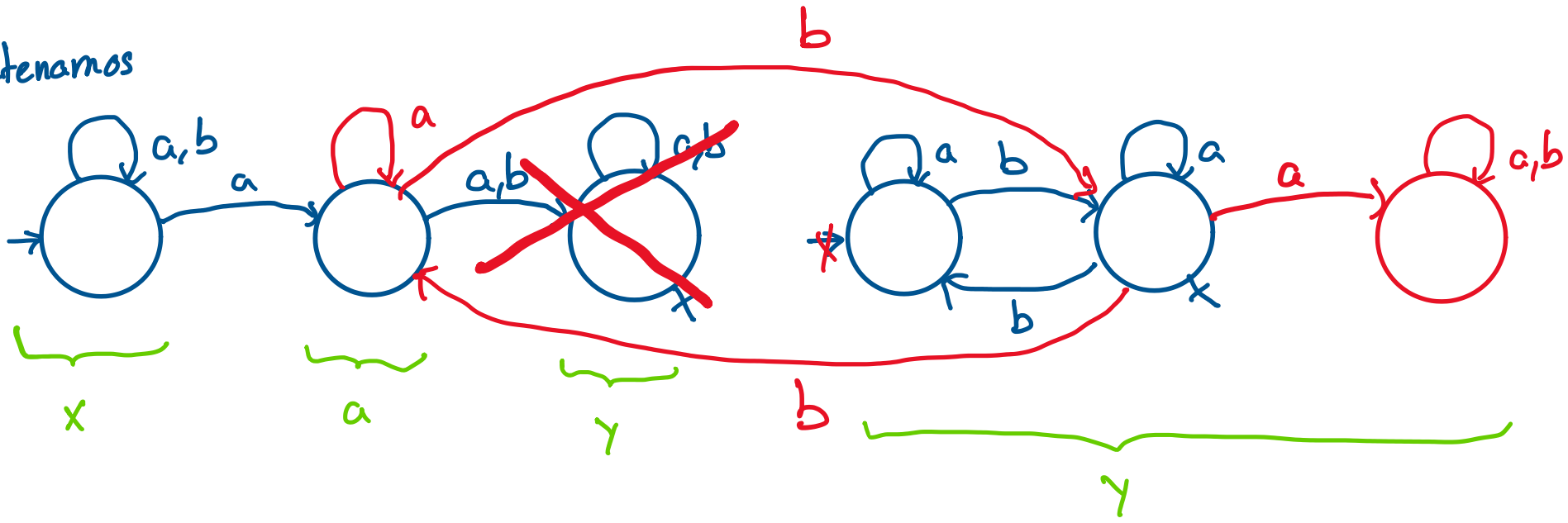
	a	b
0	01	0 +
1	2	2
2	2	2 +

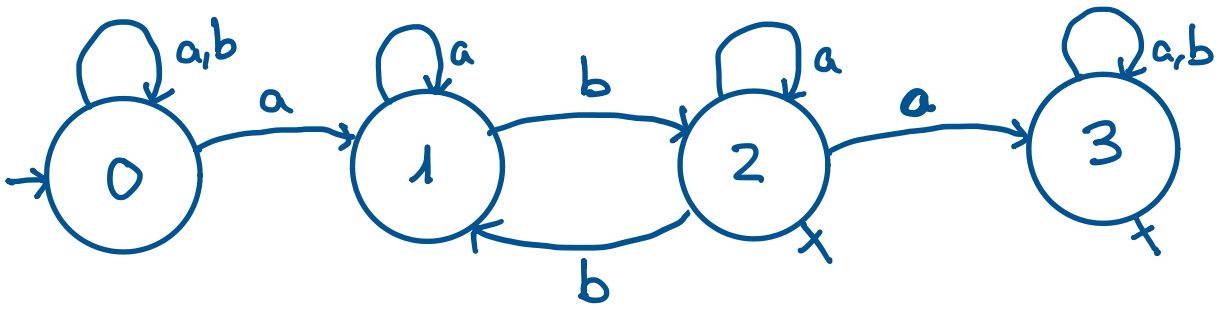
$|y|_b \notin \dot{2}$:



	a	b
A	A	B
B	B	A

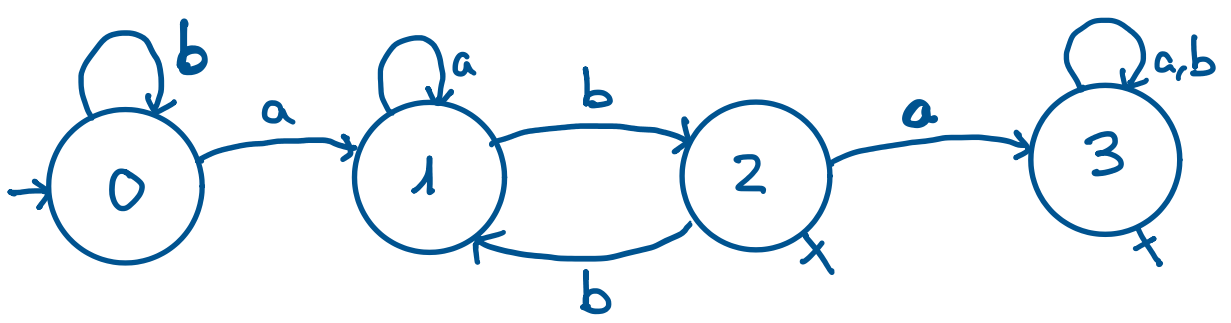
3- Concatenamos





4- Pasamos a determinista

	a	b	
0	01	0	
01	01	02	
02	0123	01	+
0123	0123	0123	+



5- Aplicamos el complementario