Deterministic Finite Automata

DFAs.

$$(Q, \Sigma, \delta, q_0, F)$$

O: set of "states"

[an alphabet

S: Q×∑→Q

80: start state 90EQ F: final states FSQ

8	a	b	
80	81	82	
82	82	81	
	8d	80	
80/	80	ga	

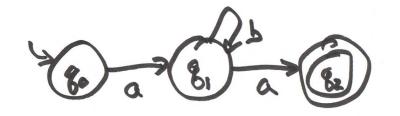
transition diagram

-final (double circles)
state

[= {a,b}

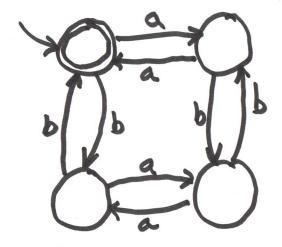
8: transition function

aba



Language of DFA

= set of all accepted strings



even # of a's, even # of b's.