

Symbols $0, 1, a, b, \$ \dots$

alphabet set of symbols

Σ

$\{0, 1\}$

Strings $(1, 1, 0)$

110

length

$|110| = 3$

empty string

ϵ

$|\epsilon| = 0$

Σ^* = set of all ^{finite length} strings

$\{\epsilon, 0, 1, 00, 01, 10, \dots\}$

operations

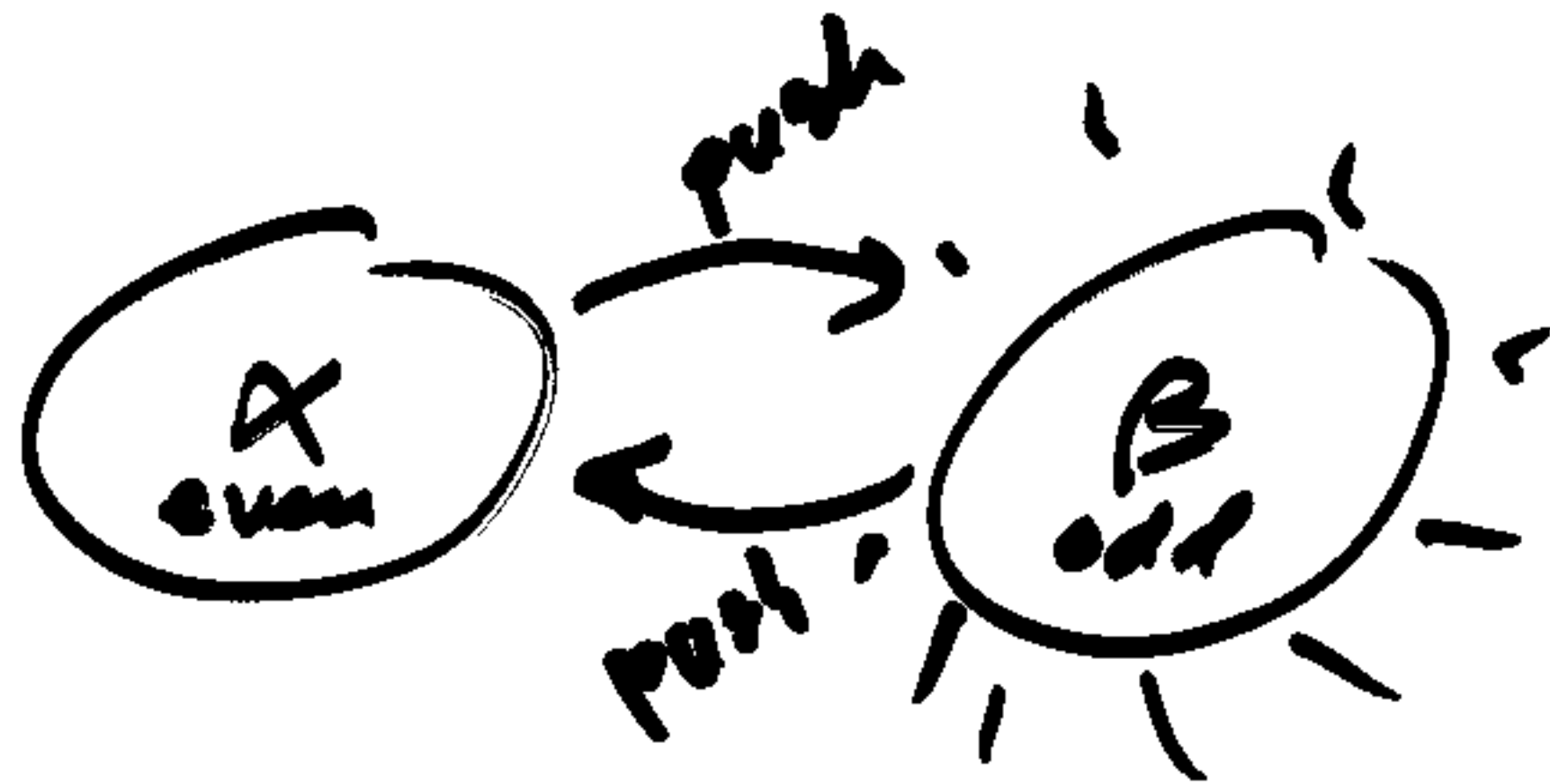
$x = 10$

$y = 01$

$xy = 1001$

$yx = 0110$

A Language $L \subseteq M^*$



$$\bar{\Sigma} = \{ \text{Push} \} = \{ 1 \}$$