

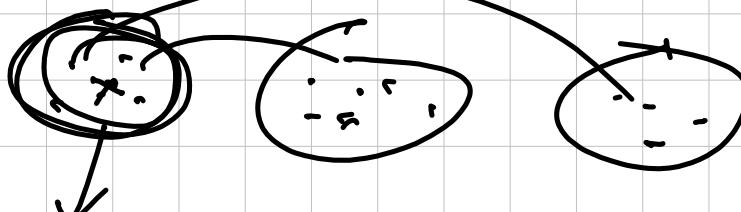
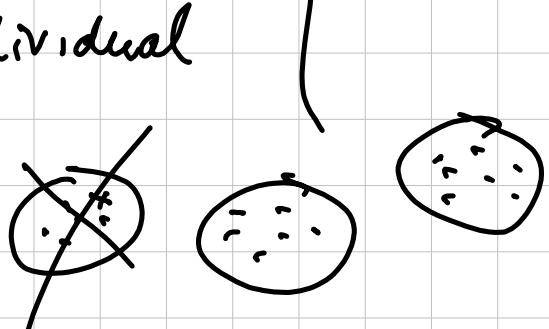
conservation biology }
levels of selection }

thresholds
pop control
pop cycles

↑ { Most mutations are }
deleterious
↓ ... but in the long run
you need mutations in order
to evolve

short
vs long term

group vs individual
(population)



thresholds

$$R_0 = \frac{\beta N}{\gamma}$$

$$\text{incid} = \frac{\beta S I}{N}$$

$N = \text{pop density}$

threshold density
DENSITY - DEPENDENT
TRANSMISSION

$$\text{incidence} = \beta \cdot I \cdot \frac{S}{N}$$

$$R_0 = \frac{\beta}{\gamma}$$

stochastic thresholds

. ATTOFOXES .