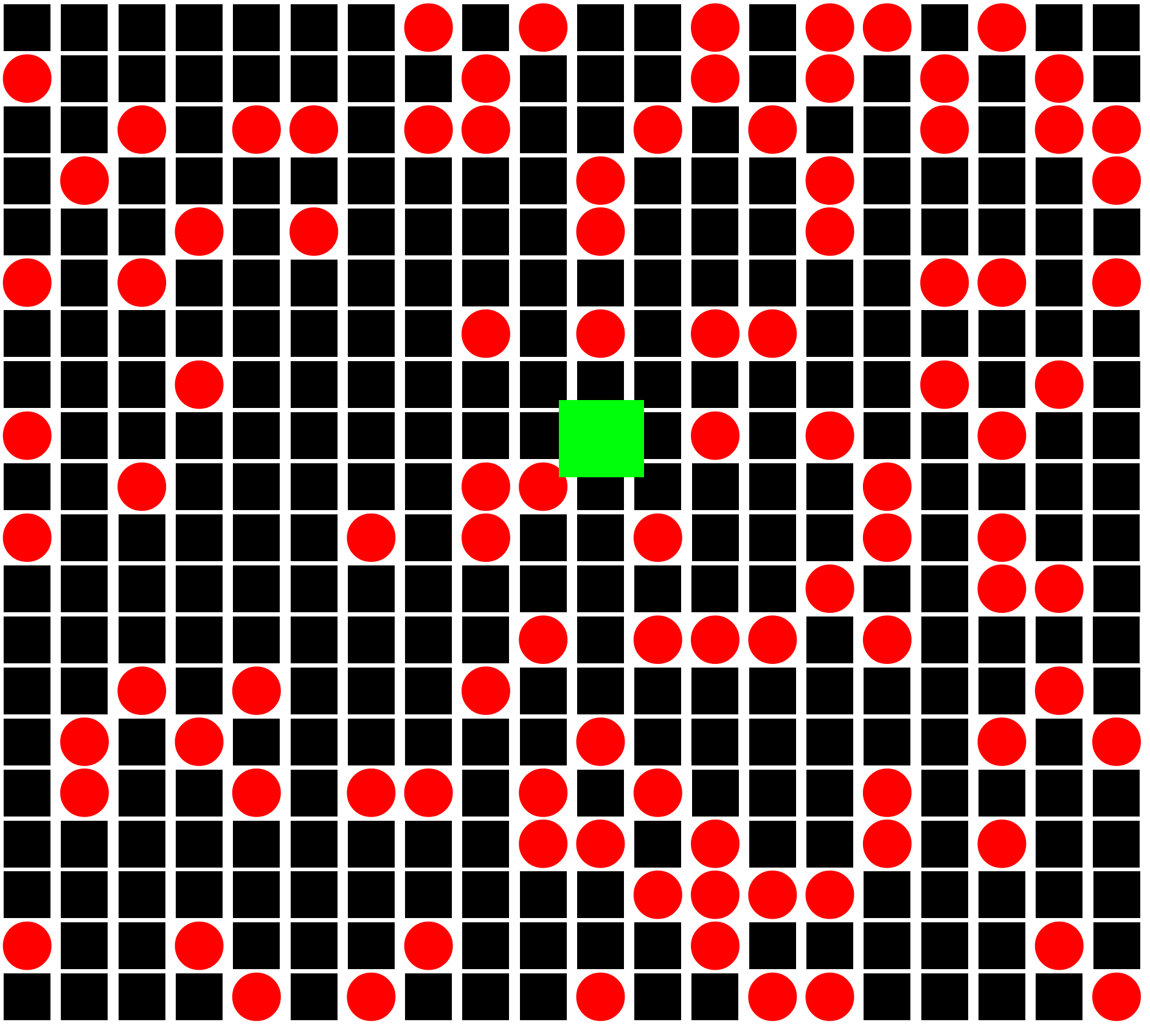
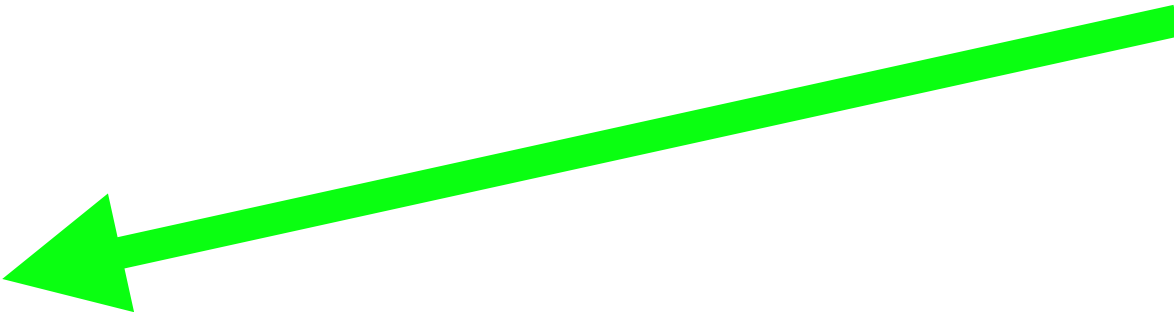


Contribution to Entropy From a Single Site:



This site contributes on average

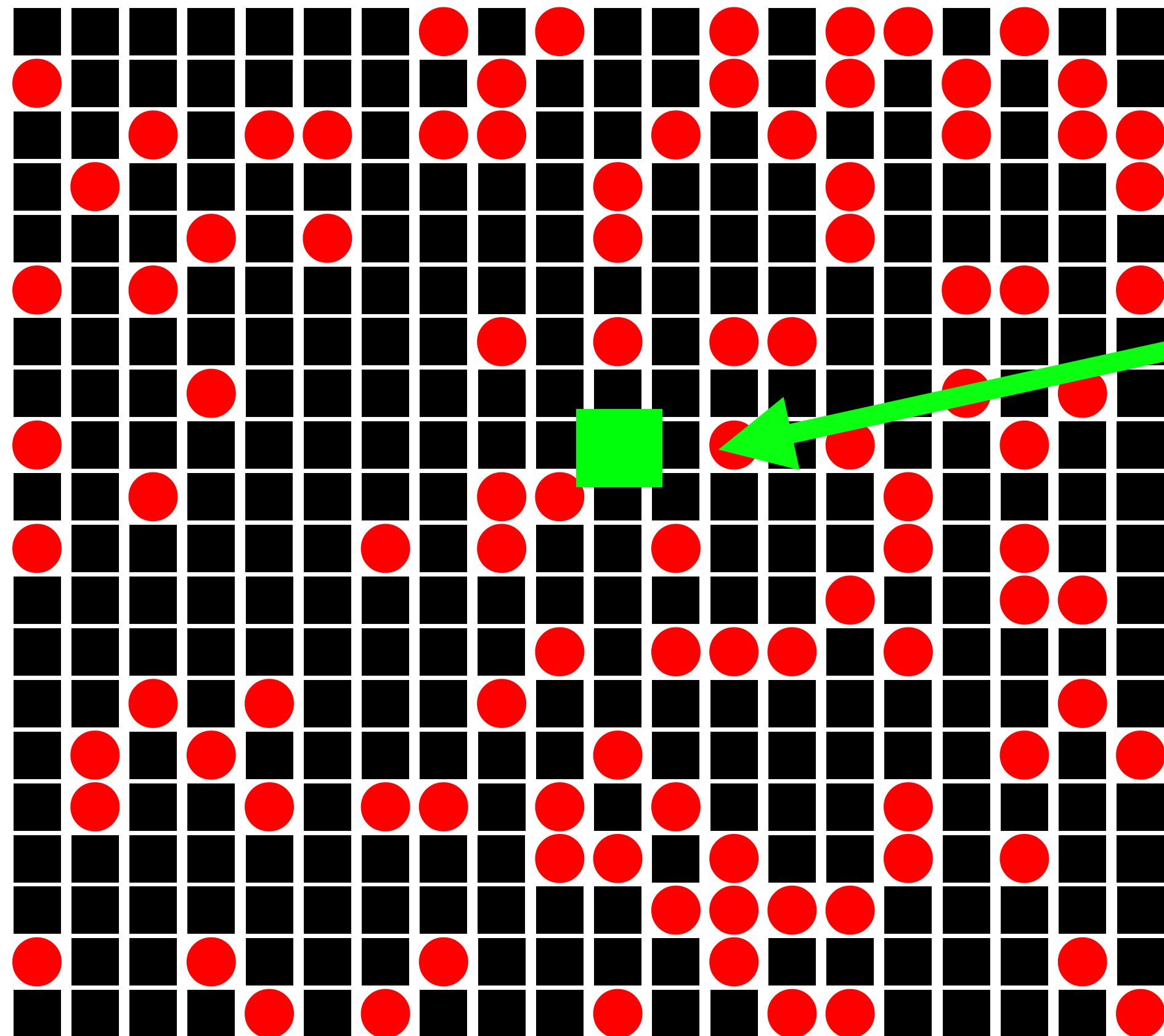

$$S_1 = -k \langle \ln P_i \rangle = -k \sum_i P_i \ln P_i$$

to the total entropy:

$$S = NS_1$$

Pick a site: the other sites form the
reservoir at temperature T

Contribution to Entropy From a Single Site:



Pick a site: the other sites form the reservoir at temperature T

This site contributes on average

$$S_1 = -k\langle \ln P_i \rangle = -k \sum_i P_i \ln P_i$$

to the total entropy:

$$S = NS_1$$

Entropy of Two State System

