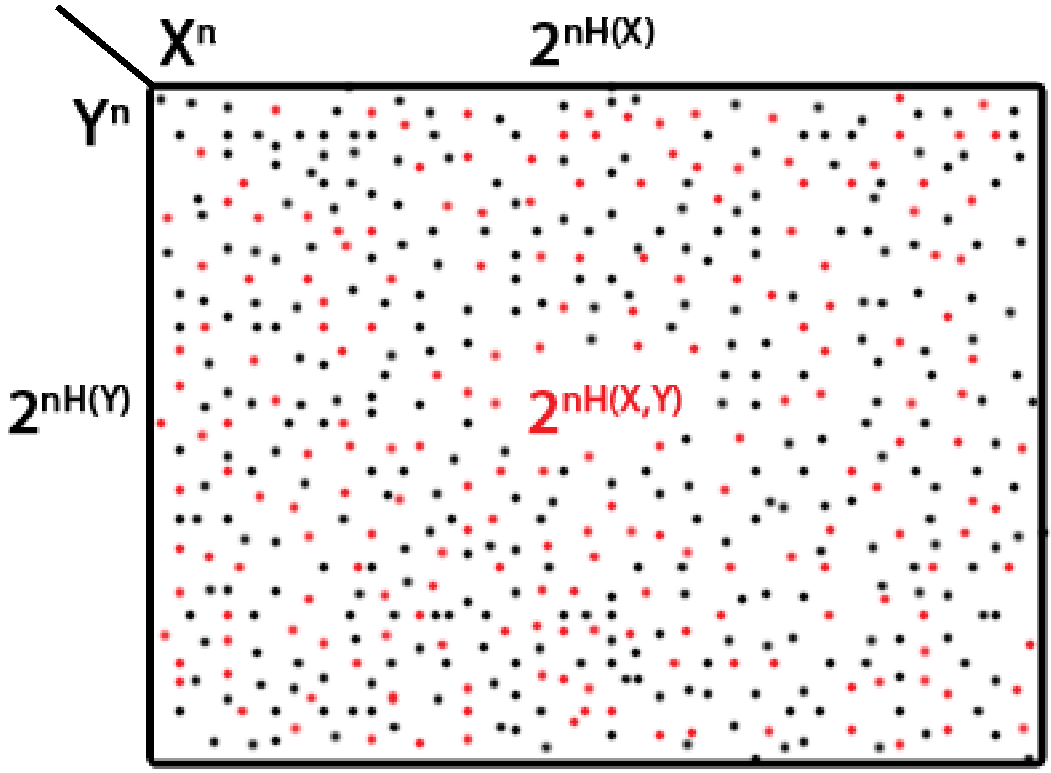
X^n
$2^{nH(X)}$
Y^n
$2^{nH(Y)}$
$2^{nH(X,Y)}$