



$$\frac{|c|}{|S_1|} \rho_{S_1} \leq \rho_c \leq \frac{|c|}{|U|} \rho_U$$

$$cor_c = \delta(U, c)$$

$$\frac{|g|}{|U|} \rho_U \leq \rho_g \leq \frac{|g|}{|S_2|} \rho_{S_2}$$

$$cor_g = \delta(S_2, g)$$