

Generative Process for $Y | X = x$ (FIMEC)

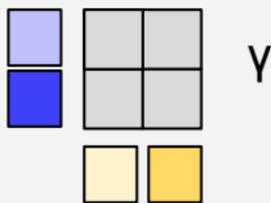
$$x = \begin{array}{|c|c|} \hline \text{blue} & \text{red} \\ \hline \end{array}$$

$$\mathbb{X} = \begin{array}{|c|} \hline \text{light blue} \\ \hline \text{blue} \\ \hline \end{array} \times \begin{array}{|c|} \hline \text{light red} \\ \hline \text{red} \\ \hline \end{array} \quad \mathbb{Y} = \begin{array}{|c|} \hline \text{light yellow} \\ \hline \text{yellow} \\ \hline \end{array} \times \begin{array}{|c|} \hline \text{light green} \\ \hline \text{green} \\ \hline \end{array}$$

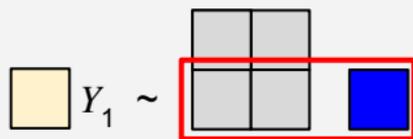
Partition \mathcal{P}_1 with most entropy



Perform MEC



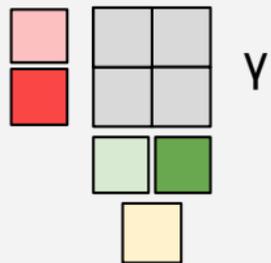
Sampling Y_1



Partition \mathcal{P}_2 with most entropy



Perform MEC



Sampling Y_2

