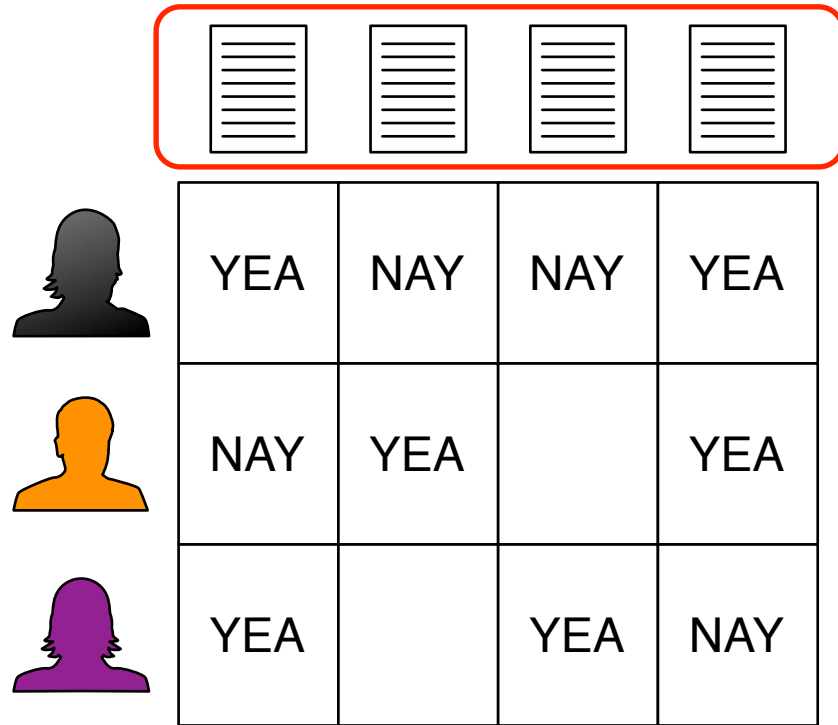

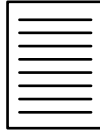
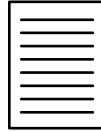






Legislator a votes 'Yea' on bill b with probability



				
	YEA	NAY	NAY	YEA
	NAY	YEA		YEA
	YEA		YEA	NAY

$$p(v_{a,b} = \text{Yea}) = \Phi \left(x_b \sum_{k=1}^K u_{a,k} \vartheta_{b,k} + y_b \right)$$