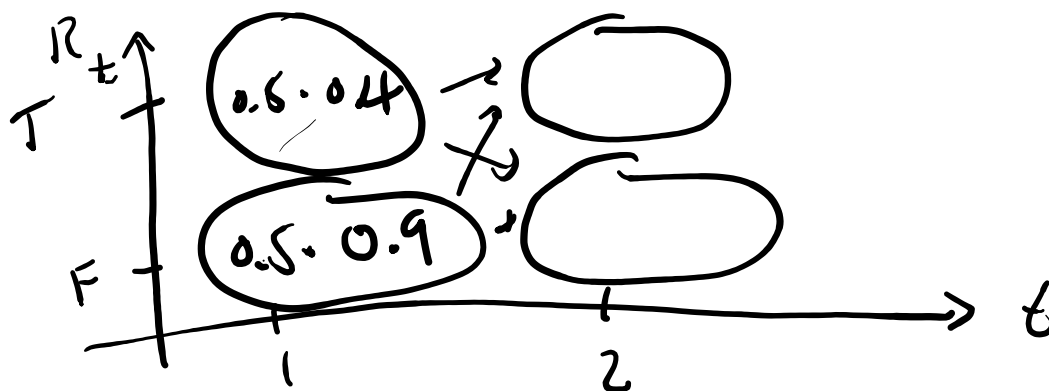


2025feb19

Tuesday, February 18, 2025

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$$P(R_1=T, U_1=F) = (0.5)(0.4)$$

$$P(R_1=F, U_1=F) = (0.5)(0.9)$$

$$P(R_2=F, F, F)$$

$$= \sum_{R_1=F}^1 P(R_1=R_1, R_2=F, U_1=F, U_2=F)$$

$$= P(R_1=F, U_1=F, R_2=F, U_2=F) \\ + P(R_1=T, U_1=F, R_2=F, U_2=F)$$

$$= (0.5)(0.9)(0.8)(0.9)$$

$$+ (0.5)(0.4)(0.3)(0.9)$$