this time: joint, marginal, conditional

next time:

(X, Y) discrete

have

$f_{X,Y}(x,y)$

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$$f_X(x) = \sum_{\text{all } y} f_{X,Y}(x,y)$$

A, B : independent → P(A and B)
↑↓
T/F statements = P(A) · P(B)

P(A and B) = P(A) · P(B|A)
= P(B) P(A|B)