S = x fx1x (x1y)
$E(X Y=y) = \begin{cases} \sum_{x} f_{x Y}(x y) \\ \int_{x} f_{x Y}(x y) df \end{cases}$
· E(X) → 常数
E(XIY=y) 美子yuo函数
E(X/Y) → 予座和L發電.
$X \sim U(0,1)$, $ZR R A X = X$, $R Y X = D A A A A A A A A A A A A A A A A A A$
$f(y) \Rightarrow \frac{1}{1-x}$ $y \in \mathcal{Y} \in \mathcal{Y}$
$E(Y X=b) = \int_{b}^{b} \frac{1}{1-b} y dy = \frac{1+2}{2} \int_{a}^{b} \frac{1}{1-b} y dy = \frac{1+2}{2} \int_{a}$
$E(Y X) = \frac{HX}{2}$ Principle
Thm. X5Y,
E(E(Y X)) = E(Y) and $E(E(X Y)) = E(X)$.
• Thm. X5?
Var(Y) = E Var(Y X) + Var E(Y X).



