

 $p(\theta|b) = p(D|\theta)p(\theta)$ posterior P(D) OMAR = Organax & (O(D) p(010) & p(010)p(4)  $p(y,x) = p(y) - (p(x_1/3))$  $\Theta_{WY} = p(x_i - w \mid y)$  $p(\overline{\theta}|D) = p(D|\overline{\theta})$ (x:= W, y=a) (y=a)plyixla DO12 1) P(2,x10)  $\phi(D|\theta) = \theta_{1}(1-\theta)_{1}$ p(toils) = 1-8 gardo m p(010)=A

$$p(\theta|D) \sim p(\theta|\theta|P(\theta))$$

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$$A = ||x \in h \cdot (2)|S|$$

$$p(A) = ||x||$$

$$p(B) = ||x||$$

$$p(A,B) = ||x||$$

$$p(B|A) = \frac{p(A,B)}{p(A)} = \frac{1}{4}$$

$$p(A,B) \neq p(A)p(B)$$