

Tables Illustrating Bayes' Rule

1. Accused Defendant Example (100 instances)

	total	prints	no prints
event A: guilty	40	32	8
event $\sim A$: innocent	60	6	54

Conditional on prints found, the probability of guilty is $32/38$.

2. Let's Make a Deal Example (300 instances)

	total	door 1 opened	door 2 opened
event A1	100	0	100
event A2	100	100	0
event A3	100	50	50

Conditional on door 1 opened, the probability of A2 is $100/150$ and the probability of A3 is $50/150$.