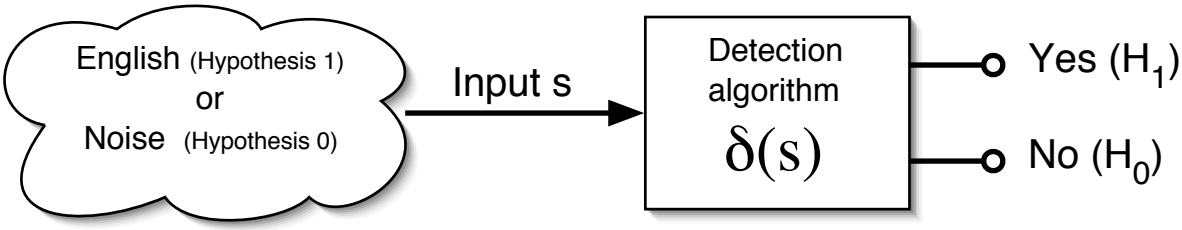
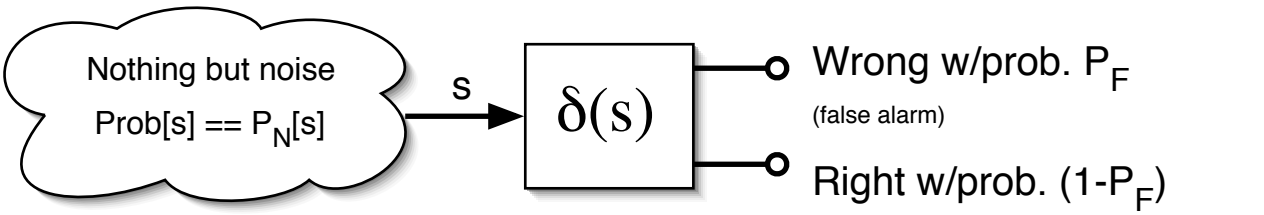
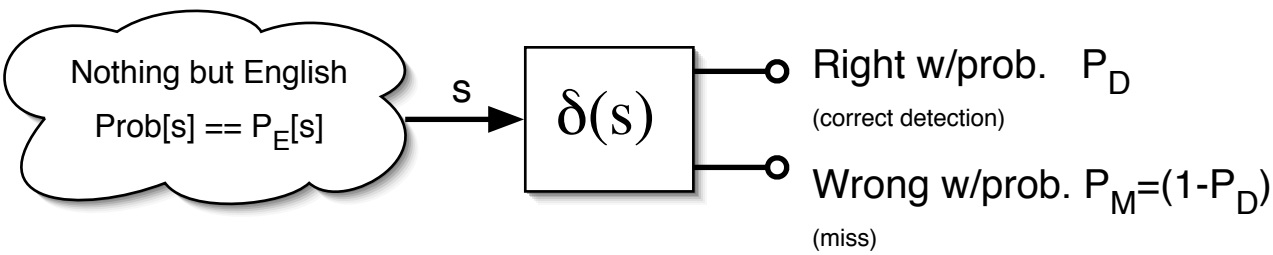
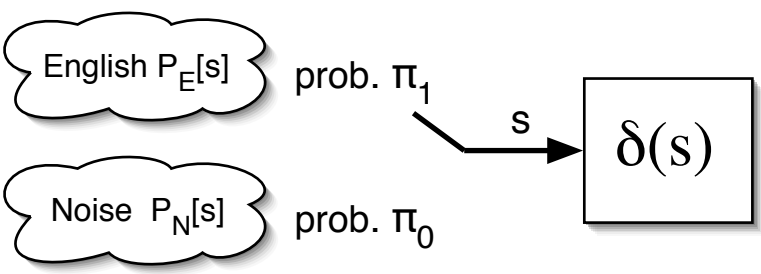
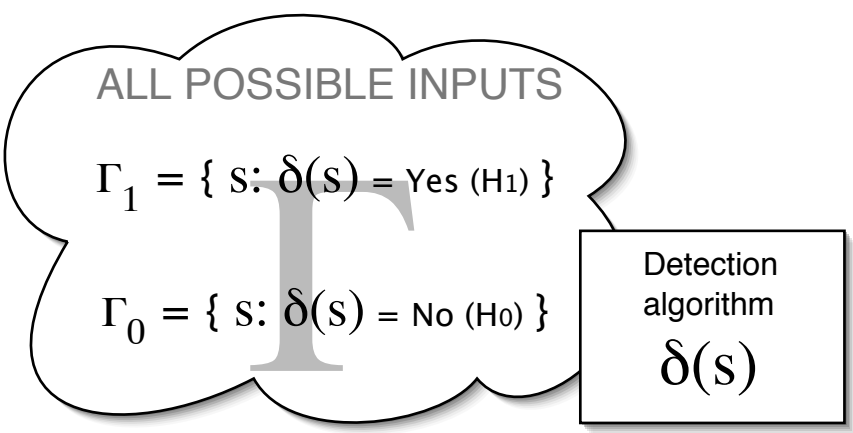








Detection:	$\pi_1 P_D$
Miss:	$\pi_1 P_M$
False alarm:	$\pi_0 P_F$
Nondetection:	$\pi_0 (1-P_F)$



$$P_D = P_E[\,\Gamma_1\,]$$

$$P_M = P_E[\,\Gamma_0\,] = 1-P_E[\,\Gamma_1\,]$$

$$P_F = P_N[\,\Gamma_1\,]$$