

v.v "distributed as" "with prob."  $\sim \begin{cases} 1 & \omega. \beta & 1/2 \\ 0 & \omega. p & 1/2 \end{cases}$ X ~ Bernouilli (1/2) := & 1 w.p 1/2 "Standard Bernovilli" SUPP [X] = {0,13 X is discrete. X~Bernovilli(P) = \$ 1 W.P p is called a parameter, a number you choose to "tune" the r.v model f(x)=sinax where aER \303 a is a parameter to the 890 fc f(x)= sin (0)=0, this is a "degenerate cost" Parameter space: the set where p''lives"

PE (0,1) "non-inclusive"

because if you include 0 or 1 you

get degenerate cases (x~Deg(0), y~Deg(1) X~Deg(0):= { ( w.p. 1} P(X):= P(X=X) "prob. mass fa (PMF)
P: IR -> [0,1]





