

X & 2 red, grean (blue } KI = Ix-green + 2013 x2 = 1 x = bive e 20,13 Y = bo+ b1 X1 + b2 X2 = Yred + (79 - 7+) K1 + (79 - 76) X2 . 3 X & 210w, med, mgh? ordinal matif you want to condition Ki · Ix=m I (10W) & I (medium) - I inan) Yi = 1x = H A: OLS WILL NOT GIVE YOU \$ = { \frac{\lambda}{\lambda} \text{if } \text{X=1000} me mont monoten 1844 7H IP X=high consider the r.v's X,Y they are dependent if (associated if) Fx,, xo st. PCY | X=Xi) = P(Y | X - Xo) er : cov[x,y] : 6xy estimated by r 6xy = con [X14] = E [ (X-MX) (Y-my)] estimated by let xc=X-Mx , Yc=Y-My SXr 6.xy = E[(x-mx)(Y-my)] = E(x(Y)) = E(Z) E(3)>0 ELZYLO E(2) 20 45 LINEOT associations => correlation = 0 K8 Y desendant/associative