

A= Zx: xis notin } - context matters _ this box must exist - Russel A variable that is random! Random Variable: - value of variable changes Sample Space = Sall possible ?

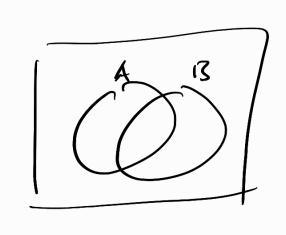
events to I

happen Random Variable: Domain is So Image is IR Example Flip 2 coins: D= S(HH) HT) TH, TT? (X)= # of heads Travelond !! X(w(=HH)=2 variable $X(\omega = HT) = 1$ X(w=7H)=1

 $X(\omega = TT) = 0$

discrete afgers

confinuous inferval of Reals



A, B are sets



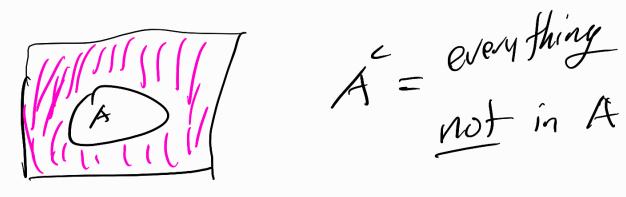
AUB = everything in A

OF in 15

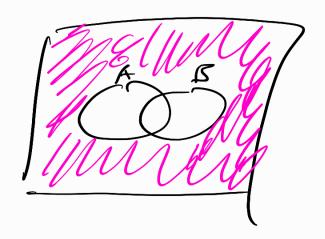
Union

ANB = everything in A

Intersection



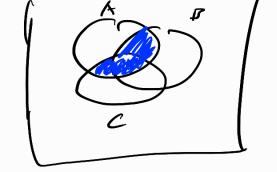
Ac n Bc



(AAB)



An(BUC)



Quantitative:

discrete: dot plots

discrete: stem 2 leaf plots

frequency fables « histograms o cumulative dist. plots Continuous: · pie chart Categorical bar graphs · Segmented ppl who know bar graph oph Ma may be don't know

relative freg. others ح ای : 0 اه - 15 : 1 1090 1090/2017 333 334/2027 15-20: 2 300 302/2027 20-25:0 200 200/2027 25+:1 100 (01/2027 4 2023