Special kind of random variable called an indicator

i.e. indicator random variable. A.k.a. Bernoulli Fandom variables.

Main idea! Only take on values o or 1.

Lot A be the set of outcomes (i.e. the event) that make X=1

and if X=0 for outcomes in A, we say X indicates event A

i.e. X is an indicator for A.

i.e. we A > X(u)=1 i.e. X=1

we A > X(u)=0 i.e. X=0

useful with sums of random variables.