

Population

Population variables

Functor random variables

Person

Bob

Anna



X
Random selection
from Person.
 $P(X = \text{Anna}) = \frac{1}{2}.$

Y
Random selection
from Person.
 $P(Y = \text{Anna}) = \frac{1}{2}.$

gender(X)
Gender of selected person.
 $P(\text{gender}(X) = W) = \frac{1}{2}.$

Friend(X,Y) =
T if selected persons are
friends, F otherwise.
 $P(\text{Friend}(X,Y) = T) = \frac{1}{2}.$

gender(Y)
Gender of selected person.
 $P(\text{gender}(Y) = W) = \frac{1}{2}.$