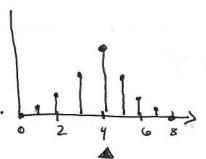
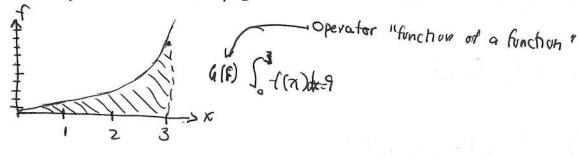
X-Binomial (8, to)

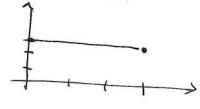


Privat point, is a good summary that desplains this distribution

 $f(x) = x^2$, $x \in A = [0,3)$



$$f(x) = 3$$
, $x \in A$



$$4(f) \int_{S}^{s} f(x) dx = 9$$

2019 X

 $M_{-} = \underbrace{\sum_{x \in Supp(x)} \chi_{(x)}}_{x \in Supp(x)} = \underbrace{\sum_{x \in Supp(x)} \chi_{(x)}}_{x \in Supp(x)} = \underbrace{\sum_{x \in Supp(x)} \chi_{(x)}}_{x \in Supp(x)} = \underbrace{\sum_{x \in Supp(x)} \chi_{(x)}}_{x \in Supp(x)}$

$$\chi = \frac{\chi_1 + \dots \chi_n}{\Omega}$$

$$E[X] = OP(0) + IQ(1) + 2P(2) + 3P(3) + 4P(4) + SP(5) + 6P(6) + 7P(7) + 6P(8)$$

$$\sum_{x=0}^{n} x \binom{n}{x} p^{x} (1-p)^{n-x} = np \sum_{k=1}^{n} \binom{n-1}{k-1} p^{x-1} (1-p)^{n-x}$$

$$= p \sum_{y=1}^{n} x \frac{n!}{x!(n-x)!} p^{x} (1-p)^{n-x} = np \sum_{k=1}^{n} \binom{n-1}{k-1} p^{x-1} (1-p)^{n-x}$$

$$= np \sum_{y=0}^{n} \binom{m}{y} p^{y} (1-p)^{n-y-1}$$

$$E[Y] = \sum_{x \in Supp(x)} x \frac{\binom{x}{x} \binom{N-x}{n-x}}{\binom{N}{x}} = 0 = n \frac{1}{N}$$

X~Unif ({1,10,100})

$$E[X] = 1 \cdot \frac{1}{3} + 10 \cdot \frac{1}{3} + 100 \cdot \frac{1}{3} = \frac{111}{3}$$

When proxy trace with yet second?

$$X - \text{Uncommetric}(.2) = .8^{X \cdot 1} \cdot .2$$

$$Supp[X] = N0$$

$$X = M \text{Supp}(X] = N0$$

$$X = M \text{Supp}(X] = X \text{ i.o.} = \frac{3}{2} \times \frac{100}{2} \times \frac{3}{200}$$

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$$X = M \text{Supp}(X) =$$

$$\Rightarrow M = (1-p)M+1$$

 $\Rightarrow M = (1-p)M+1$
 $\Rightarrow M = 1 \Rightarrow M = \frac{1}{p}$

```
Mode (x) = argmax Ep(x)}
MIN[x] - MIN[SUPP[x]]
max[x] = max supp[x]}
Range[x] - MAN[x] - MIN[x]
 Quantile [X,p) = arg min & FCV) = P3
        Q[x,p)
                            tirst # greater than p.
QLx, 0.8] = 8
                           Q[x,.1] = 1
O[x, 0,4)=3
     Q[X, 99] _ 20
```

Median [x] = Q[x,.5] IQRG= Q[x,.75] - Q[x,.25] · inter-quantile range

terfiles Quantiles med (x) Quintle (x, \f) Deciler Q[x,4) O[x, ૱] Q[x, 1] OCx; to] Q[x,=] Od Q(x, 2] Q[x, 3] OF. Q[x, 3/5] Q(x, 457 Q(x, 9)

[NODEX] = 1 = X Is unimodel