```
The kinomial conseptually is

T = N \lim_{\infty} Hyper(n, p, N)

T = X_1 + ... + X_n \text{ where } X_1, ... X_n \stackrel{ind}{\sim} Bern(p)

Lecture: -12

X \sim Binomial(n, p)

p(X) = p(X = X) = {n \choose X} p^X (1-p)^{n-X}

F(X) = p(X = X) = {n \choose X} p^X (1-p)^{n-1}

F(X) = 7 + (X-3)^2

f(X) = 7
```

```
\begin{cases} 2 \cdot p(x) = 1 \\ x \in \text{Supp}(x) \\ x \in
```

```
amount of . X Binomial (8, 1) - sampling w/ replacement
   heads " Supp [x] = { 0,1, ... 8}
   XI. Xg did
   X2 = 4
             \bar{X} = 3.375
   X4= 5
   X6= 3
   X7 = 3
 Keep going until heads

X ~ Greom (1/2)
                              X1, ... X8 2 Geom (2)
      Supp (x) = \{1, 2, ...\}
      ×2=3
                \bar{X} = 2
      X3 = 3
      X4 = 1
      X5 = 1
      x_6 = 3
```