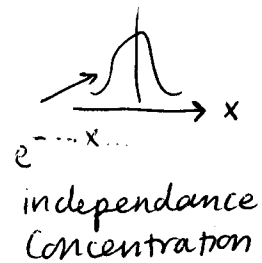


Prob(edge is there) =  $p = \frac{4}{n}$

$n-1$  coin tosses with



$E \approx 4$

Prob(degree  $\geq 20$ )  $\approx 10^{-6}$

Var  $\approx 4$

5% have degree  $\geq 20$

INTERNET BGP graphs

Web graph:



$E(\text{degree}) = 12$

1% nodes with degree  $\geq 100$

Zipf's Law.

$Pop_i$  (population of its largest city).

$Pop_i \approx \frac{Pop_1}{i}$

$freq_i$  (freq. of its most used word)

$freq_i \approx \frac{freq_{me}}{i}$

