

Top-k Example: k=3

12. Keep Top k Abilities:

Sum: $0.45 + 0.18 + 0.15 = 0.78$
Cat: $0.45 / 0.78 \equiv 0.58$
Dog: $0.18 / 0.78 \equiv 0.23$
Bird: $0.15 / 0.78 \equiv 0.19$
mouse: 0.04
....

Result: Sample from {cat: 58%, dog: 23%, bird: 19%}

Prevents sampling from long tail ("mouse" eliminated)

