

# Top-k Example: k=3

12. Keep Top k Abilities:

cat: 0.45 + 0.18 + 0.15 = 0.78  
dog: 0.23 + 0.08 + 0.04 = 0.35  
bird: 0.19 + 0.08 + 0.04 = 0.31  
mouse: 0.04

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

*Prevents sampling from long tail ("mouse" eliminated)*

