

Step 1: Get top-k candidates  
city: 0.45, town: 0.18, area: 0.15



Step 2: Compute similarity to context  
city: 0.92, town: 0.75, area: 0.65



Step 3: Apply penalty ( $\alpha=0.6$ )  
score =  $(1-\alpha) \times \text{prob} - \alpha \times \text{similarity}$



Winner: "town"  
 $(0.4 \times 0.18 - 0.6 \times 0.75 = -0.378)$