

SUBJECT:

Year: Month: Day:

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$$p(\langle s \rangle \text{ football club } \langle /s \rangle) =$$

$$p(\text{football} | \langle s \rangle) \times$$

$$p(\text{club} | \text{football}) \times$$

$$p(\langle /s \rangle | \text{club}) = ? \rightarrow \text{تمام این احتمالات باید با ترتیب درستی}$$

آفرینش نام برد

$$\text{Add-1 estimate: } p_{\text{Add-1}}(w_i | w_{i-1}) = \frac{c(w_{i-1}, w_i) + 1}{c(w_{i-1}) + V}$$

$$p(\text{football} | \langle s \rangle) = \frac{1}{K + \textcircled{11}} = \frac{1}{18}$$

↘ v

$$p(\text{club} | \text{football}) = \frac{2}{12}$$

$$p(\langle /s \rangle | \text{club}) = \frac{2}{12}$$

$$\Rightarrow p(\langle s \rangle \text{ football club } \langle /s \rangle) = \frac{1}{18} \times \frac{2}{12} \times \frac{2}{12} = \frac{K}{2160}$$

$$= 0.00185$$



Senobar

$$p(\langle S \rangle \text{ Hadi Saei Persepolis} \langle 15 \rangle) = ?$$

$$p(\text{Hadi} | \langle S \rangle) = \frac{1}{18 + 12} = \frac{1}{18}$$

$$p(\text{Saei} | \text{Hadi}) = \frac{1}{12}$$

$$p(\text{Persepolis} | \text{Saei}) = \frac{1}{12}$$

$$p(\langle 15 \rangle | \text{Persepolis}) = \frac{1}{12}$$

$$\Rightarrow p(\langle S \rangle \text{ Hadi Saei Persepolis} \langle 15 \rangle) = \frac{1}{18} \times \frac{1}{12} \times \frac{1}{12} \times \frac{1}{12}$$

$$p(\langle S \rangle \text{ Saei Daei taekwondo} \langle 15 \rangle) = ? \quad = 0/000 \text{ PAK}$$

$$p(\text{Saei} | \langle S \rangle) = \frac{1}{18}$$

$$p(\text{Daei} | \text{Saei}) = \frac{1}{12}$$

$$p(\text{taekwondo} | \text{Daei}) = \frac{1}{12}$$

$$p(\langle 15 \rangle | \text{taekwondo}) = \frac{1}{12}$$

$$p(\langle S \rangle \text{ Saei Daei taekwondo} \langle 15 \rangle) = \frac{1}{18} \times \frac{1}{12} \times \frac{1}{12} \times \frac{1}{12}$$

$$= 0/0000 \text{ PAK}$$



$$p(\langle s \rangle \text{ footballer Persepolis club } \langle 15 \rangle) = ?$$

$$p(\text{footballer} | \langle s \rangle) = \frac{1}{18}$$

$$p(\text{Persepolis} | \text{footballer}) = \frac{1}{12}$$

$$p(\text{club} | \text{Persepolis}) = \frac{1}{13}$$

$$p(\langle 15 \rangle | \text{club}) = \frac{1}{12}$$

$$\Rightarrow p(\langle s \rangle \text{ footballer Persepolis club } \langle 15 \rangle)$$

$$= \frac{1}{18} \times \frac{1}{12} \times \frac{1}{13} \times \frac{1}{12} = 0.0000617$$