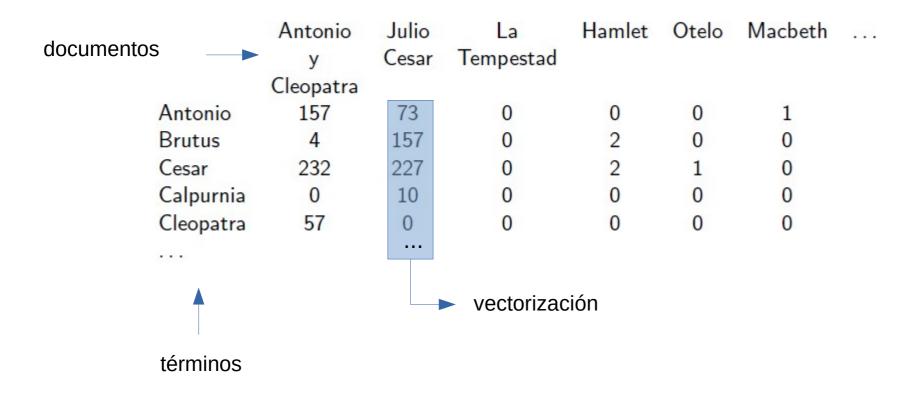


IIC 3800 Tópicos en CC NLP

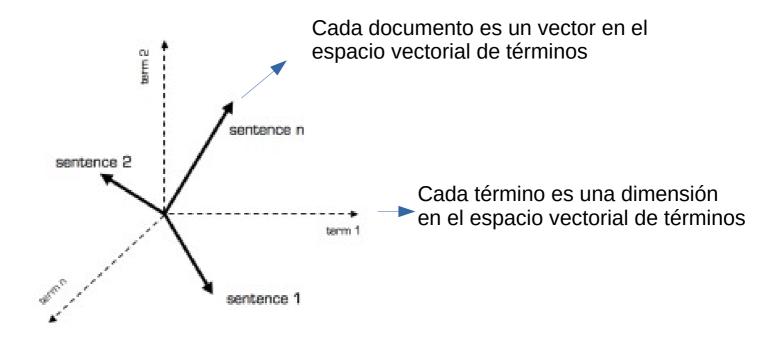
https://github.com/marcelomendoza/IIC3800

- VECTORIZACIÓN DE DOCUMENTOS Y RANKING -

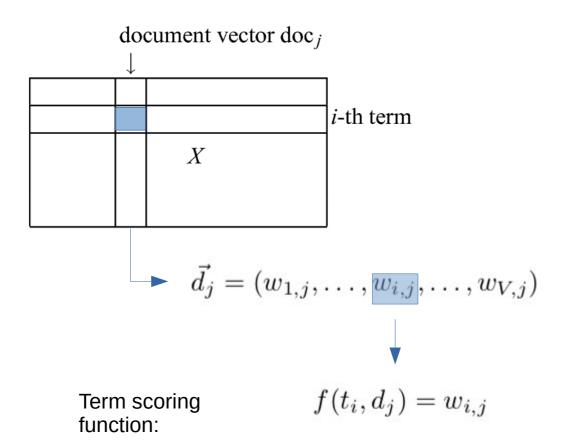
Matriz términos-documentos



Vector-space model



Vector-space model



BM25

 $f_{i,j}$: # occs. de ti en dj

N:# docs

n; : # docs donde ti ocurre

 $l(d_j)$: # tokens en dj

 l_{avg} : largo promedio

$$w_{i,j} = \frac{f_{i,j} \cdot (k_1 + 1)}{k_1 \cdot \left[(1 - b) + b \cdot \frac{l(d_j)}{l_{avg}} \right] + f_{i,j}} \cdot \log \left(\frac{N}{n_i} \right)$$

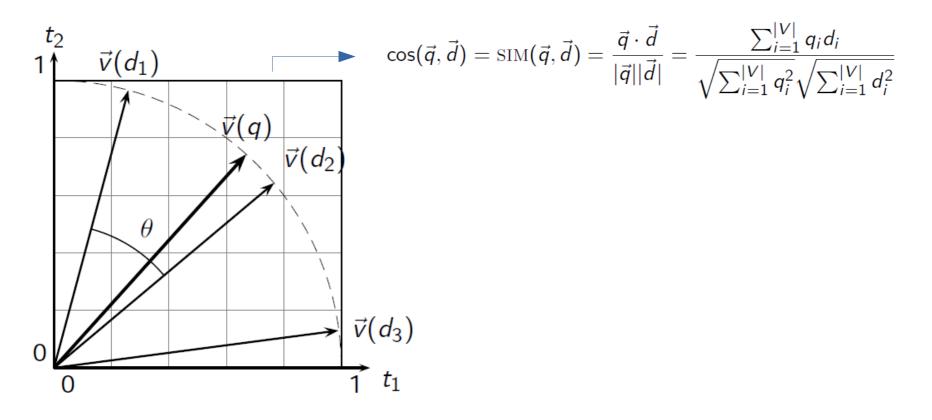
$$b \in [0,1], k_1 > 0$$

Empírico: $b \approx 0.75$

$$k_1 \approx 1.2$$

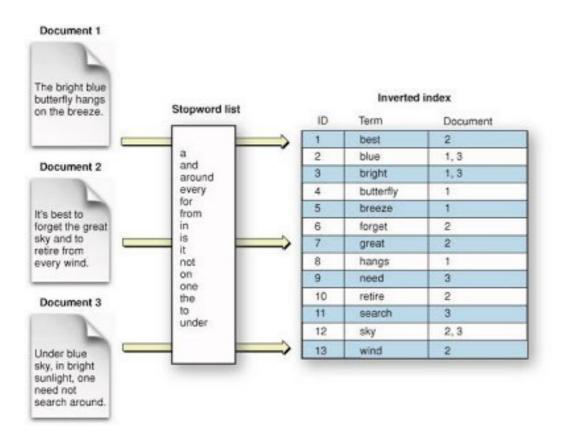
Document ranking

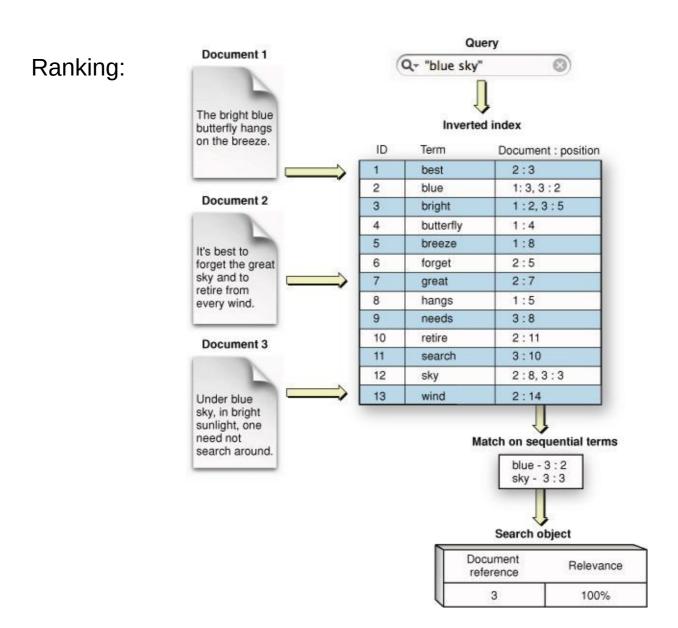
Funciones de proximidad entre vectores:

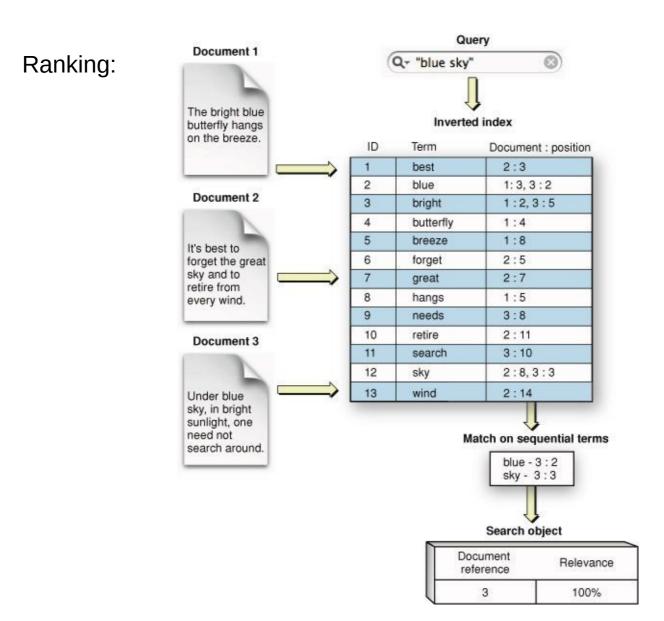


BM25 está basado en esta idea.

Índice invertido:









https://github.com/marcelomendoza/IIC3800