

$$\text{sim}_{\cos}(d_j, q) = \frac{(d_j | q)}{\|d_j\| \|q\|} = \frac{\sum_{i=1}^n w_{ij} q_i}{\sqrt{(\sum_{i=1}^n w_{ij}^2)(\sum_{i=1}^n q_i^2)}}$$