$$S_c = \cos(\theta) = \frac{\mathbf{A} \cdot \mathbf{B}}{\|\mathbf{A}\| \|\mathbf{B}\|} = \frac{\sum_{i=1}^n \mathbf{A}_i \mathbf{B}_i}{\sqrt{\sum_{i=1}^n \mathbf{A}_i^2} \sqrt{\sum_{i=1}^n \mathbf{B}_i^2}}$$