$_{s}imilarity.png[Projectiondesproduits]Projectiondesproduits$

$$\cos(\theta) = \frac{\mathbf{P} \cdot \mathbf{Q}}{\|\mathbf{P}\|\|\mathbf{Q}|}$$

$$= \frac{\sum_{i=1}^{n} P_i Q_i}{\sqrt{\sum_{i=1}^{n} P_i^2}\sqrt{\sum_{i=1}^{n} Q_i^2}}$$

$$M = UxI$$

$_{m}atrix.png[Dcompositiondelamatrice]Dcompositiondelamatrice$
$_{r}esult.jpeg[Matriceproduit]Matriceproduit$

$_cf.png[NeuralColaborativeFiltering, https:$
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$_multiplication.png[GnralisationduNFC, https:$
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$collaborative-$
$filtering-$
$96cef1009401]GnralisationduNFC, https://towardsdatascience.com/neural-collaborative-filtering-96cef1009$
$L(x) = x$