Example of Rocchio Feedback

V= {news about presidential camp. food }

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Query = "news about presidential campaign"
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$$O = (1, 1, 1, 1, 0, 0, ...)$$
New Query Q'= $(\alpha*1+\beta*1.5-\gamma*1.5, \alpha*1-\gamma*0.067, \alpha*1+\beta*3.5, \alpha*1+\beta*2.0-\gamma*2.6, -\gamma*1.3, 0, 0, ...)$

$$-D1 = (1.5, 0.1, 0, 0, 0, 0, ...)$$

$$-D2 = (1.5, 0.1, 0, 2.0, 2.0, 0, ...)$$

$$-D3 = (1.5, 0, 3.0, 2.0, 0, 0, ...)$$

$$+ D3 = (1.5, 0, 3.0, 2.0, 0, 0, ...)$$

$$+ Centroid Vector = ((1.5+1.5)/2, 0, (3.0+4.0)/2, (2.0+2.0)/2, 0, 0, ...)$$

$$= (1.5, 0, 3.5, 2.0, 0, 0, ...)$$

$$+ D4 = (1.5, 0, 4.0, 2.0, 0, 0, ...)$$

$$- Centroid Vector = ((1.5+1.5+1.5)/3, (0.1+0.1+0)/3, 0, (0+2.0+6.0)/3, (0+2.0+2.0)/3, 0, ...)$$

$$= (1.5, 0.067, 0, 2.6, 1.3, 0, ...)$$

- D5=
$$(1.5, 0, 0, 6.0, 2.0, 0, ...)$$