

Step-1

Let a and b are input vectors.

If q_1, q_2 are the outputs from Gram-Schmidt process

Then $q_1 = \frac{a}{\|a\|}$ and $q_2 = \frac{c}{\|c\|}$ where $c = b - (q_1^T b) q_1$

That is, a and b can be any two vectors in the subspace spanned by q_1 and q_2 .

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