

QR分解 \rightarrow 變相間對角化

1. Column space 要是獨立, \rightarrow 行獨立 $\Rightarrow (F^{m \times n}) \rightarrow$ 有可能 $m \geq n$,
如果 $m < n$, 則無法做

2. R is an upper triangular invertible matrix
with positive entries on its upper triangle.

Gram-Schmidt

3. Q 是 orthogonal matrix, R 是上三角 matrix

If A can be QR factorized, then the least-square solution can be
calculated as $R^{-1}Qb$.

4. R 是可逆, 且 entry 都為大於等於零, 上三角形,