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we arrive at what Gilbert Strang calls the Fundamental Theorem of Linear Algebra:  $m = \text{Ran}(A) \oplus \text{Ker}(A^T)$ ,  $\text{Ran}(A) \oplus \text{Ker}(A) = n$

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Trefethen's Index Cards (WSP 2011) -- see sample1, sample2; Spectra and Pseudospectra (PUP 2005) Schwarz-

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