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linear algebra is to take linear combinations of column vectors. This is exactly the result of a matrix-vector multiplication.  $Ax$  is a combination of the columns of  $A$ . When we take all combinations  $Ax$  of the column vectors, we get the column space. If this space includes the vector  $b$ , we can solve the equation  $Ax = b$ .

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Chapter1 Linearspace 1.1.The definition of linearspace.Examples

The notion of linearspace came into existence in the 19th century to obtain a unifying principle for certain algebraic phenomena

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toward linear algebra. Working with curved lines and curved surfaces, the first step is Working with curved lines and curved surfaces, the first step is always to linearize .

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