

Eigendecomposition



For a given square matrix A , there are **special vectors**
which refuse to stray from their path

$$A = \begin{bmatrix} 1 & 2 \\ 2 & 1 \end{bmatrix}$$

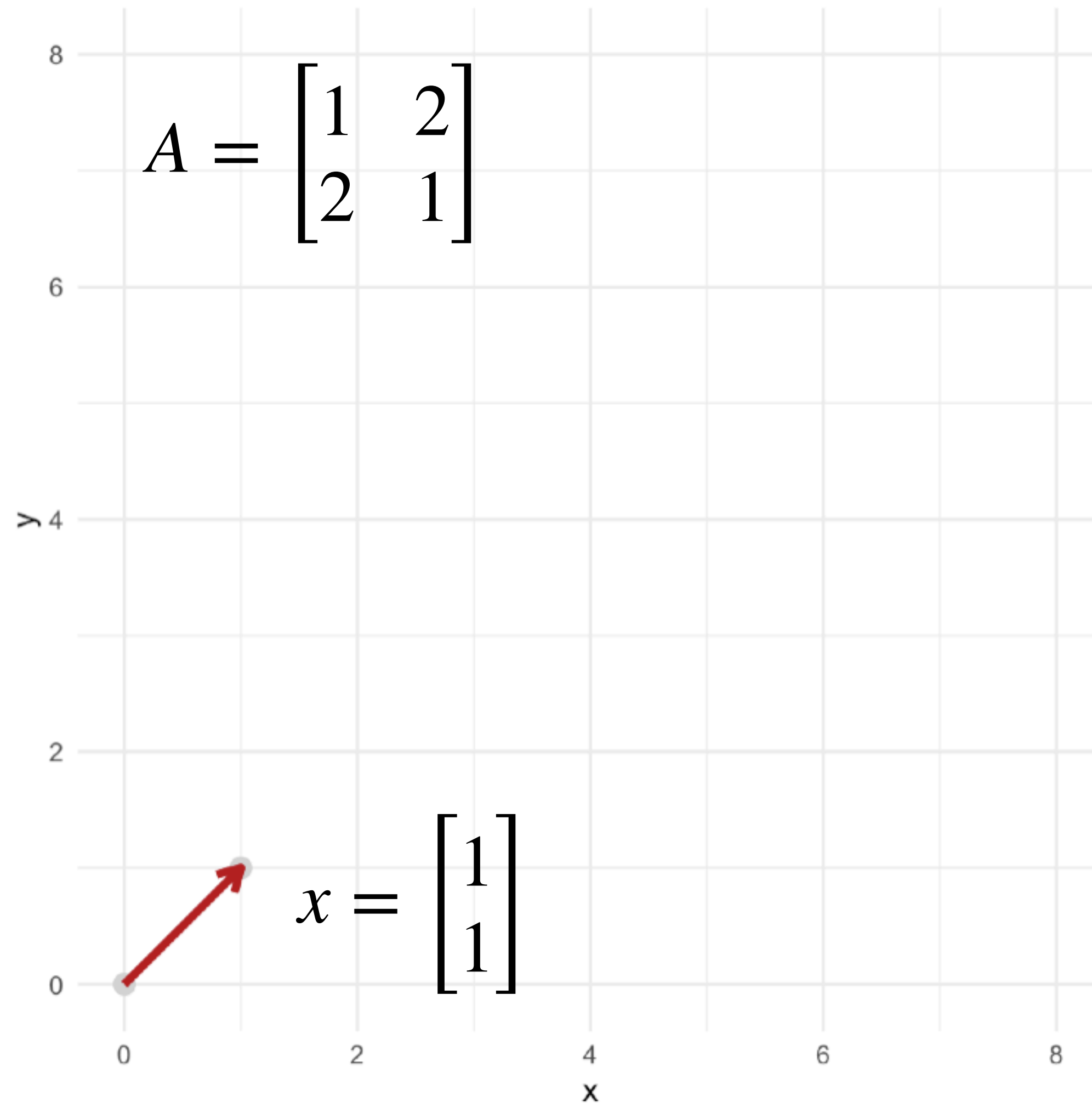
$$x = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

Eigendecomposition



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Eigendecomposition



For a given square matrix A , there are **special vectors** which refuse to stray from their path

These vectors are called **eigenvectors**

