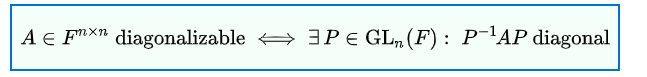
Matrix Exponentiation



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Ref:

Diagonal matrix

[Diagonal matrix - Wikipedia](https://en.wikipedia.org/wiki/Diagonal_matrix)

Diagonalizable matrix

[Diagonalizable matrix - Wikipedia](https://en.wikipedia.org/wiki/Diagonalizable_matrix)

Eigenvalues and eigenvectors

[Eigenvalues and eigenvectors - Wikipedia](https://en.wikipedia.org/wiki/Eigenvalues_and_eigenvectors)

Diagonalization

[Diagonalization - YouTube](https://www.youtube.com/watch?v=WTLl03D4TNA&t=332s)

Power 2 of a matrix

[2 to a matrix - YouTube](https://www.youtube.com/watch?v=vm-0t3Z7UQM)

Power a matrix of a matrix

[Matrixth Root of a Matrix - YouTube](https://www.youtube.com/watch?v=4vPrf-k0_bM)