

Amazing Presentation About Fibonacci Sequence

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May 1, 2023

Definition

Fibonacci sequence $\{F_n\}$ is defined as:

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Goal: Finding the general formula for the Fibonacci sequence!

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by eigendecomposition of the matrix:

$$\begin{pmatrix} 1 & 1 \\ 1 & 0 \end{pmatrix} = VDV^T$$

where $D = \text{diag}(\phi, \psi)$.