

## DIAGONAL CONSTANT MATRICES

## Why

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## Definition

A  $diagonally\ constant\ matrix$  is a matrix A whose entries are constant on the diagonals.

Other terminology include Toeplitz matrix, linear shift invariant matrix or LSI matrix, linear time invariant matrix or LTI matrix, filter matrix, convolution matrix.

<sup>&</sup>lt;sup>1</sup>Future editions will include.

