

The image displays a 100x100 grid of black dots on a white background. The dots are arranged in a pattern that suggests a sparse matrix, likely representing a discretized differential equation or a similar mathematical model. The distribution of dots is non-uniform, with a higher density along the main diagonal and some off-diagonal elements, particularly in the lower-left and upper-right quadrants, indicating a banded structure. The overall pattern is symmetric about the main diagonal, suggesting a Hermitian or symmetric matrix. The dots are arranged in a way that forms a grid, with some rows and columns being more densely populated than others, creating a visual representation of the matrix's sparsity pattern.

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A 20x20 grid of black dots on a white background. The dots are arranged in a sparse, irregular pattern, with some rows having more dots than others. The dots are small and black, and the grid is composed of 20 rows and 20 columns. The pattern of dots is not uniform, with some areas being denser than others. The dots are scattered across the grid, with some appearing in small clusters and others in isolation. The overall appearance is that of a random or semi-random distribution of points within a square frame.

A 3x3 grid of dots. The top row has two dots, the middle row has two dots, and the bottom row has two dots. The dot in the bottom-left position is missing.







