

A large grid of 100 rows and 100 columns 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 background is white. The pattern is dense in some areas and sparse in others, creating a complex, abstract visual structure. The dots are scattered across the entire grid, with some clusters and many empty spaces. The overall effect is a high-contrast, black-and-white image that resembles a digital or printed representation of a random or semi-random distribution of points.

The image displays a 15x15 grid of black dots on a white background. The dots are arranged in a pattern that suggests a banded structure, with higher density along the main diagonal and some off-diagonal elements, particularly in the lower-left and upper-right quadrants. The overall appearance is that of a sparse matrix visualization, possibly representing a discretized differential operator or a similar mathematical structure.

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The figure consists of 12 sub-diagrams arranged in a single row, each showing a pattern of black dots on a white background. The patterns are as follows:

- Diagram 1: A 2x2 square of dots.
- Diagram 2: A 2x2 square of dots with one dot to the right of the top-right dot.
- Diagram 3: A 2x2 square of dots with one dot to the right of the top-right dot and one dot below the bottom-right dot.
- Diagram 4: A 2x2 square of dots with one dot to the right of the top-right dot, one dot below the bottom-right dot, and one dot to the left of the top-left dot.
- Diagram 5: A 2x2 square of dots with one dot to the right of the top-right dot, one dot below the bottom-right dot, one dot to the left of the top-left dot, and one dot to the left of the bottom-left dot.
- Diagram 6: A 2x2 square of dots with one dot to the right of the top-right dot, one dot below the bottom-right dot, one dot to the left of the top-left dot, one dot to the left of the bottom-left dot, and one dot above the top-left dot.
- Diagram 7: A 2x2 square of dots with one dot to the right of the top-right dot, one dot below the bottom-right dot, one dot to the left of the top-left dot, one dot to the left of the bottom-left dot, one dot above the top-left dot, and one dot to the right of the top-right dot.
- Diagram 8: A 2x2 square of dots with one dot to the right of the top-right dot, one dot below the bottom-right dot, one dot to the left of the top-left dot, one dot to the left of the bottom-left dot, one dot above the top-left dot, one dot to the right of the top-right dot, and one dot to the right of the bottom-right dot.
- Diagram 9: A 2x2 square of dots with one dot to the right of the top-right dot, one dot below the bottom-right dot, one dot to the left of the top-left dot, one dot to the left of the bottom-left dot, one dot above the top-left dot, one dot to the right of the top-right dot, one dot to the right of the bottom-right dot, and one dot to the left of the top-left dot.
- Diagram 10: A 2x2 square of dots with one dot to the right of the top-right dot, one dot below the bottom-right dot, one dot to the left of the top-left dot, one dot to the left of the bottom-left dot, one dot above the top-left dot, one dot to the right of the top-right dot, one dot to the right of the bottom-right dot, one dot to the left of the top-left dot, and one dot to the left of the bottom-left dot.
- Diagram 11: A 2x2 square of dots with one dot to the right of the top-right dot, one dot below the bottom-right dot, one dot to the left of the top-left dot, one dot to the left of the bottom-left dot, one dot above the top-left dot, one dot to the right of the top-right dot, one dot to the right of the bottom-right dot, one dot to the left of the top-left dot, one dot to the left of the bottom-left dot, and one dot to the right of the top-right dot.
- Diagram 12: A 2x2 square of dots with one dot to the right of the top-right dot, one dot below the bottom-right dot, one dot to the left of the top-left dot, one dot to the left of the bottom-left dot, one dot above the top-left dot, one dot to the right of the top-right dot, one dot to the right of the bottom-right dot, one dot to the left of the top-left dot, one dot to the left of the bottom-left dot, one dot to the right of the top-right dot, and one dot to the right of the bottom-right dot.

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