Bubble Sort Visualization

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Bubble Sort Algorithm

Bubble sort is a simple sorting algorithm that repeatedly steps through the list, compares adjacent elements and swaps them if they are in the wrong order. The pass through the list is repeated until the list is sorted.

Python Implementation

Visualization

The following pages provide a visual representation of the Bubble Sort algorithm. Each page contains a series of snapshots taken during the sorting process. Here's how to interpret the visualizations:

- Array Elements: Each element of the array is represented by a rectangle. The value of the element is displayed inside the rectangle.
- **Primary and Secondary Colors**: During each step of the sorting process, two elements are compared. The primary color highlights the first element being compared, and the secondary color highlights the second element being compared. If a swap occurs, these colors help indicate which elements were involved in the swap.
- Rectangles and Spacing: The rectangles are positioned along the horizontal axis, with each rectangle representing an array element. The vertical position of the rectangles changes with each step to show the progress of the algorithm.
- Swapping Indication: If a swap occurs between the elements highlighted by the primary and secondary colors, the rectangles will be updated to reflect this change in the subsequent snapshots.





























