



























## Comparison of Sorting Algorithms

## Quicksort

- fastest on average O(n log n) but worst case is O(n<sup>2</sup>)
- takes O(log n) extra space
- Heapsort
  - O(n log n) in average and worst case
  - No extra space
  - Bit slower on average than Quicksort & Mergesort.
- Mergesort:
  - O(n log n) in average and worst case
  - O(n) extra space.
  - Performs well on external files where not all fit in memory.