**Sorting algorithms**

**Theory**

* [Computational complexity theory](http://en.wikipedia.org/wiki/Computational_complexity_theory)
* [Big O notation](http://en.wikipedia.org/wiki/Big_O_notation)
* [Total order](http://en.wikipedia.org/wiki/Total_order)
* [Lists](http://en.wikipedia.org/wiki/List_%28computing%29)
* [Stability](http://en.wikipedia.org/wiki/Sorting_algorithm#Stability)
* [Comparison sort](http://en.wikipedia.org/wiki/Comparison_sort)
* [Adaptive sort](http://en.wikipedia.org/wiki/Adaptive_sort)
* [Sorting network](http://en.wikipedia.org/wiki/Sorting_network)
* [Integer sorting](http://en.wikipedia.org/wiki/Integer_sorting)

Exchange sorts

* [Bubble sort](http://en.wikipedia.org/wiki/Bubble_sort)
* [Cocktail sort](http://en.wikipedia.org/wiki/Cocktail_sort)
* [Odd–even sort](http://en.wikipedia.org/wiki/Odd%E2%80%93even_sort)
* [Comb sort](http://en.wikipedia.org/wiki/Comb_sort)
* [Gnome sort](http://en.wikipedia.org/wiki/Gnome_sort)
* [Quicksort](http://en.wikipedia.org/wiki/Quicksort)
* [Stooge sort](http://en.wikipedia.org/wiki/Stooge_sort)
* [Bogosort](http://en.wikipedia.org/wiki/Bogosort)

Selection sorts

* [Selection sort](http://en.wikipedia.org/wiki/Selection_sort)
* [Heapsort](http://en.wikipedia.org/wiki/Heapsort)
* [Smoothsort](http://en.wikipedia.org/wiki/Smoothsort)
* [Cartesian tree sort](http://en.wikipedia.org/wiki/Cartesian_tree#Application_in_sorting)
* [Tournament sort](http://en.wikipedia.org/wiki/Tournament_sort)
* [Cycle sort](http://en.wikipedia.org/wiki/Cycle_sort)

Insertion sorts

* [Insertion sort](http://en.wikipedia.org/wiki/Insertion_sort)
* [Shellsort](http://en.wikipedia.org/wiki/Shellsort)
* [Tree sort](http://en.wikipedia.org/wiki/Tree_sort)
* [Library sort](http://en.wikipedia.org/wiki/Library_sort)
* [Patience sorting](http://en.wikipedia.org/wiki/Patience_sorting)

Merge sorts

* [Merge sort](http://en.wikipedia.org/wiki/Merge_sort)
* [Polyphase merge sort](http://en.wikipedia.org/wiki/Polyphase_merge_sort)
* [Strand sort](http://en.wikipedia.org/wiki/Strand_sort)

Distribution sorts

* [American flag sort](http://en.wikipedia.org/wiki/American_flag_sort)
* [Bead sort](http://en.wikipedia.org/wiki/Bead_sort)
* [Bucket sort](http://en.wikipedia.org/wiki/Bucket_sort)
* [Burstsort](http://en.wikipedia.org/wiki/Burstsort)
* [Counting sort](http://en.wikipedia.org/wiki/Counting_sort)
* [Pigeonhole sort](http://en.wikipedia.org/wiki/Pigeonhole_sort)
* [Proxmap sort](http://en.wikipedia.org/wiki/Proxmap_sort)
* [Radix sort](http://en.wikipedia.org/wiki/Radix_sort)
* [Flashsort](http://en.wikipedia.org/wiki/Flashsort)

Concurrent sorts

* [Bitonic sorter](http://en.wikipedia.org/wiki/Bitonic_sorter)
* [Batcher odd–even mergesort](http://en.wikipedia.org/wiki/Batcher_odd%E2%80%93even_mergesort)
* [Pairwise sorting network](http://en.wikipedia.org/wiki/Pairwise_sorting_network)

Hybrid sorts

* [Timsort](http://en.wikipedia.org/wiki/Timsort)
* [Introsort](http://en.wikipedia.org/wiki/Introsort)
* [Spreadsort](http://en.wikipedia.org/wiki/Spreadsort)
* [UnShuffle sort](http://en.wikipedia.org/wiki/UnShuffle_sort)
* [JSort](http://en.wikipedia.org/wiki/JSort)

Other

* [Topological sorting](http://en.wikipedia.org/wiki/Topological_sorting)
* [Pancake sorting](http://en.wikipedia.org/wiki/Pancake_sorting)
* [Spaghetti sort](http://en.wikipedia.org/wiki/Spaghetti_sort)