Comparison of Sorting Algorithms

Name	Time Complexity	Stable / Unstable
Bubble Sort	$O(n^2)$	Stable
Selection Sort	$O(n^2)$	Unstable
Insertion Sort	$O(n^2)$	Stable
Shell Sort	Depends on gap	. Unstable
	Worst O(n ²)	
Merge Sort	O(nlogn)	Stable
Quick Sort	O(nlogn)	Unstable
Counting Sort	O(n)	Unstable