

## **Introduction to Sorting Algorithms**

**Let's get an overview of what sorting algorithms are and why they're useful.**

Algorithms are created to solve all kinds of problems. Some algorithms even aim at solving the same problem if that problem is common enough. One such problem is trying to sort a collection of elements in a quick and efficient manner.

There are many different sorting algorithms, but you are going to focus on three of the most common: bubble sort, merge sort, and quicksort. Each has pros and cons when it comes to their efficiency, as you'll see when you build them. These are not all the possible sorts, but they are a good sampling of the most common sorting algorithms.