**Data Structures and Algorithms: Recursion**

When you hear the terms recursion or recursive, this might remind you of the terms repetition and repetitive—and this is a good connection, because recursion does indeed involve repetition. However, recursion isn't just about repetition. With recursion, we solve a problem by first solving smaller instances of the same problem. In practice, this often involves calling a function from within itself—in other words, we feed some input into the function, and the function produces some output—which we then feed back into the same function. And we continue to do this until we arrive at the solution.

The idea here is to create a function that call itself. Following is the basic example of recursion.