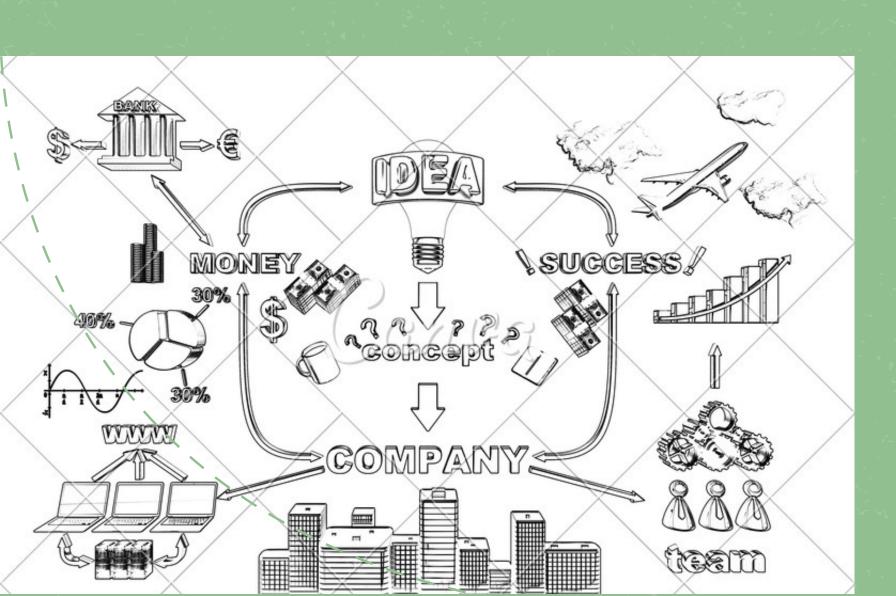# Understanding Vector Operations

01 **Vector Addition**

The **addition formula** combines vectors to find a resultant direction and magnitude.

02 **Scalar Multiplication**

This operation scales a vector's magnitude, maintaining its direction for various applications.

03 **Practical Examples**

Illustrates the application of vector addition and scalar multiplication in real-world scenarios.