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Object-Oriented Programming (OOP)

Object-oriented programming (OOP) is a programming paradigm that is based on the concept of “objects”, which are instances of a class. These objects contain both data (attributes) and behavior (methods) that describe their characteristics and actions.

Functional Programming (FP)

Functional programming (FP) is a programming paradigm that is based on the concept of “functions” that take inputs and produce outputs. These functions are pure, meaning they don’t have side-effects, and are first-class citizens, meaning they can be passed around as arguments or returned as results.