

Procedural

Sequence of instructions that inform the computer what to do with the program's input

Examples

C

Pascal

Unix (sh)

Object-Oriented

Deal with collections of objects which maintain internal state and support methods that query or modify this internal state in some way.

Examples

Java

Smalltalk

Functional

Decomposes into a set of functions, each of which solely takes inputs and produces outputs with no internal state.

Examples

Haskell

OCaml

ML

Declarative

Specification describes the problem to be solved, and
language implementation figures out the details

Examples

SQL

Prolog

Multi-Paradigm

Supports several different paradigms, to be combined freely

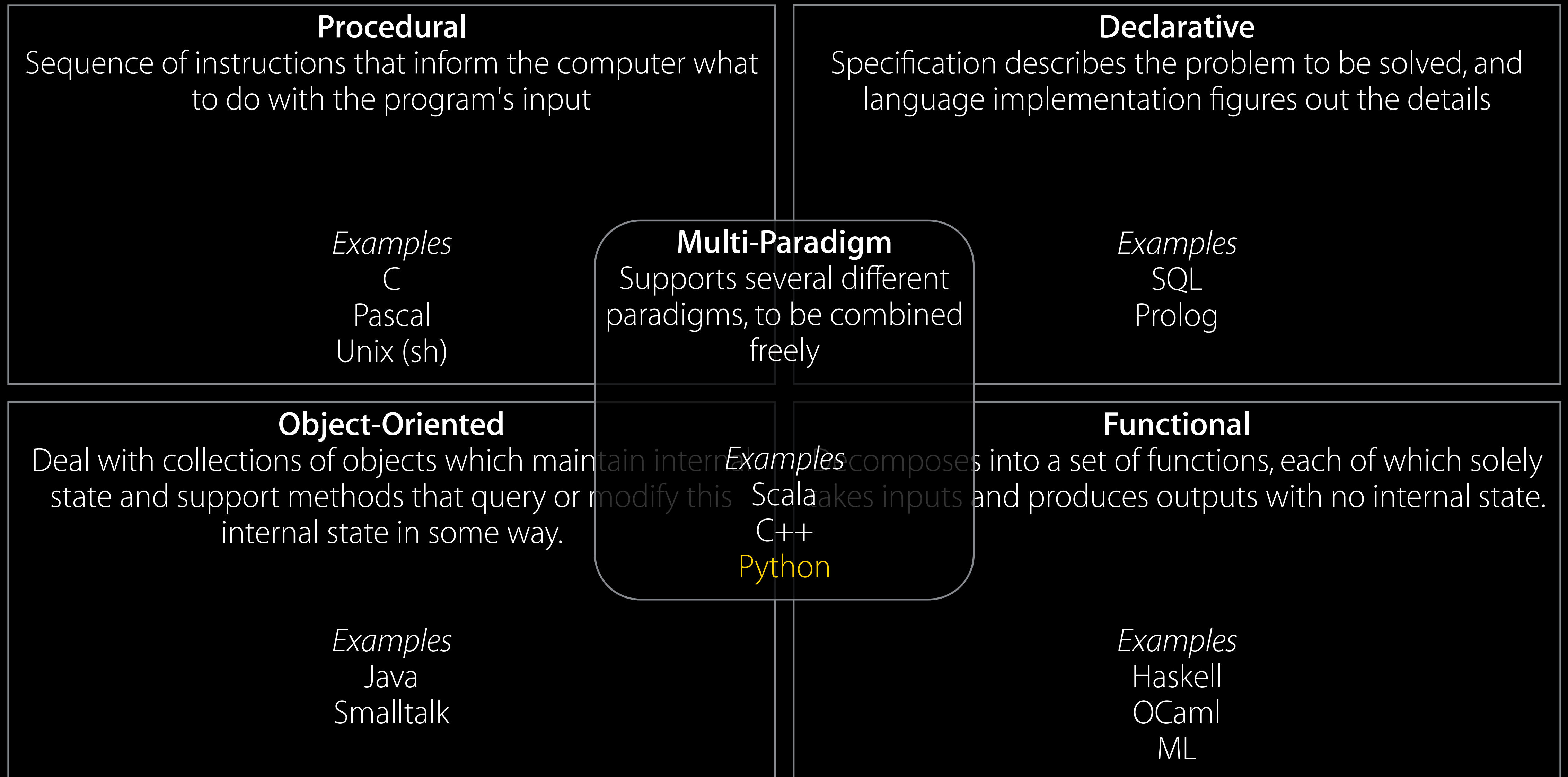
Examples

Scala

C++

Python

Recall: Programming Paradigms



Objects, Names, Attributes