CMSC 124 DESIGN AND IMPLEMENTATION OF PROGRAMMING LANGUAGES CNM PERALTA

LANGUAGE CATEGORIES

Programming languages are grouped into four major paradigms.

Imperative languages

describe computation by changing a program's state using a sequence of commands to be performed.

Functional languages use mathematical functions for all computations and avoids state and mutable data.

Logic languages

use predicate calculus for its statements and is an example of a rule-based language.

Object-oriented languages

grew out of imperative languages, adding support for objects that encapsulate data and methods.

SOME SMALLER CATEGORIES

Scripting languages

Visual languages

provide simple ways to build graphical user interfaces, e.g., .NET languages.

Mark-up/Programming Hybrid Languages

are **not necessarily PLs**, but are used in software development, e.g., **HTML**.