




COMPUTER PROGRAMMING

BY
FATOUMATA BA
MALICK DIEDJOU SOW



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introduction

Programming is a process of designing and writing computer programs that make the workings of a computer more efficient. It is a form of communication that uses symbols to represent instructions for making a machine do what you want.

It also allows people to solve practical problems by breaking them down into a series of logical steps, called algorithms or programs. Application developers can use any number of programming languages to write applications.

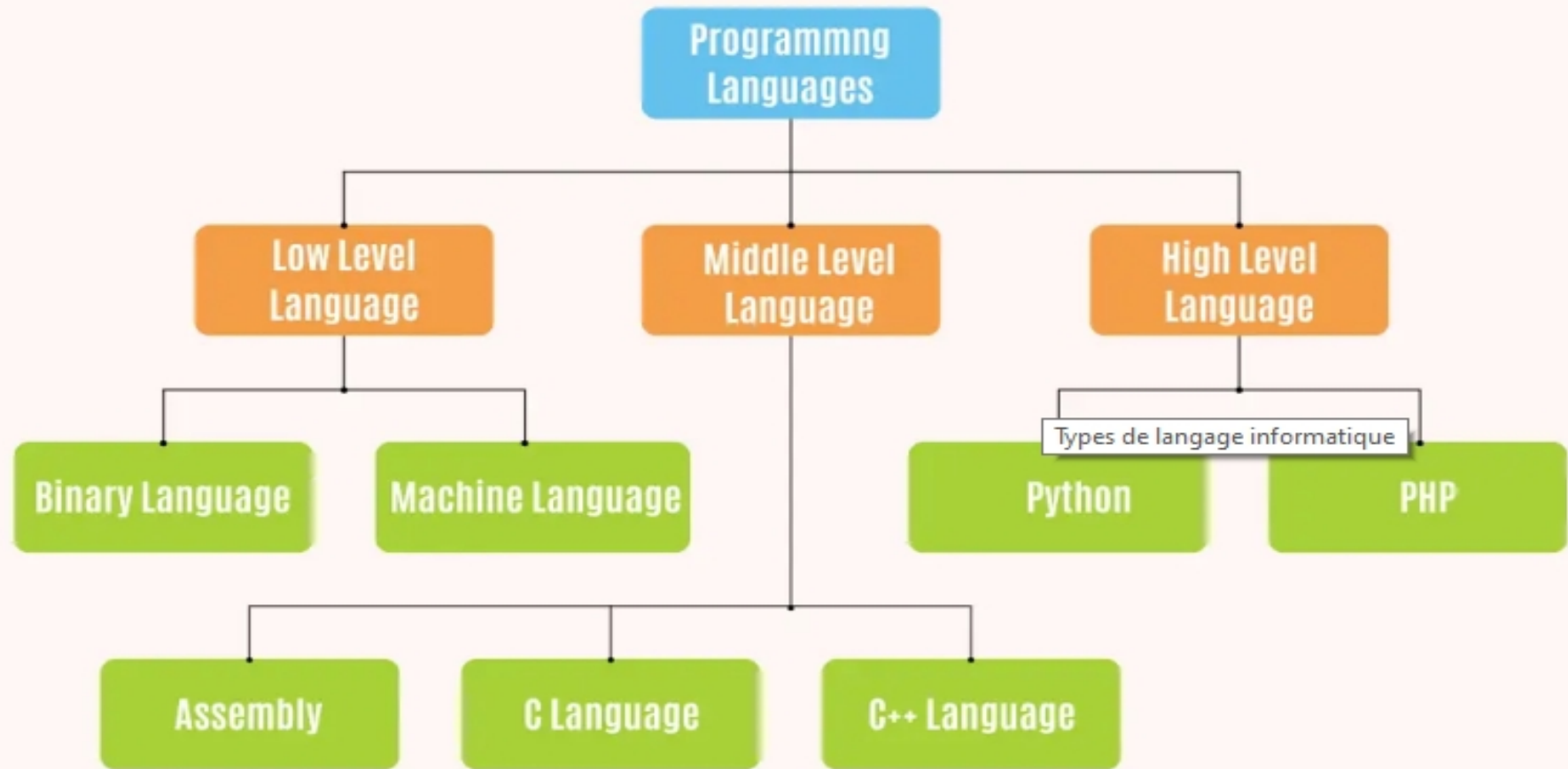


Different Types of Programming Languages ?

The programming language can be categorized into various types. They are mentioned below.

- ❑ 1. High-Level Programming Language.
- ❑ 2. Middle-Level Programming Language.
- ❑ 3. Low-Level Programming Language.

TYPES OF PROGRAMMING LANGUAGES





Different Programming Languages and Their Uses



1

C

**Device Drivers and
Operating System**

2

C++

**Games, Video, and Picture
Editing Software.**

3

Python

**Artificial Intelligence and
Machine learning**

4

PHP

**Application Development,
Software.**

5

.NET

**Desktop Software and
Application Software.**



6

JAVA

**Company Application
Development**

7

JavaScript

**Rich Interactive Web
Applications**

8

Jquery

**It is a framework of
javascript used to add
extra functionality to
webpages.**


9

SQL

Database Management



Why is Computer Programming Important?





Computers and the internet have completely changed the way we live our lives and interact with the world around us. It allows us to connect with people on the other side of the globe in an instant. Programming has changed the way we shop, travel, learn, and work. They are an essential part of our everyday lives.



What are the benefits of computer programming ?

- ❑ Computer programming can be used to create innovative and functional software
computer programmer might design a program that analyzes data from medical tests to determine the presence of a particular disease. The program could be used to help doctors diagnose the disease more easily and accurately
- ❑ Computers can also be programmed to perform specific tasks using mathematical algorithms and logic. Computer programmers can create programs that use these algorithms to carry out tasks such as sorting data or calculating the results of complex equations.



It can also be used to create websites, games, and other digital content. In this way, computer programs make it possible for people to access a wide range of entertainment and information online. In addition to creating new content, computer programmers can also help improve existing software and applications. They can add new features and options to existing programs to improve the usability and quality of these programs. For example, a programmer could update an existing gaming app to make it easier to use on a smartphone



How can computer programming or coding help the world ?

Improve Healthcare

It can improve healthcare through the use of technology. Coding skills can help healthcare organizations develop apps and other tools that can help manage medical records and improve patient care.



□ Encourage economic growth

Programming can help fuel our economy. Coding abilities may be utilized to create apps that assist people in finding a job. These apps will assist job seekers in discovering employment possibilities across a variety of sectors, including tech, healthcare, media, entertainment, and education.



□ *Discover the environment we live in*

Programming helps us learn about the world around us. It pertains to the development of apps that allow users to travel around the world and discover intriguing facts about a variety of subjects.

By comparing images of different plants and animals to a database of pictures of similar species, developers can create apps that let users recognize various types of plants and animals.



Jobs after learning computer programming



Computer Programmer

In today's digital world, computer skills are a must if you want to get a job. Programming experience is a plus. As a computer programmer,

you can work in a variety of industries including banking, finance, healthcare, and retail.



▣ *Software Development Engineer*

A software development engineer works in a technical environment to design and develop computer software for a variety of platforms. Requirements vary depending on the employer, but employers generally look for a degree in computer science or software engineering.

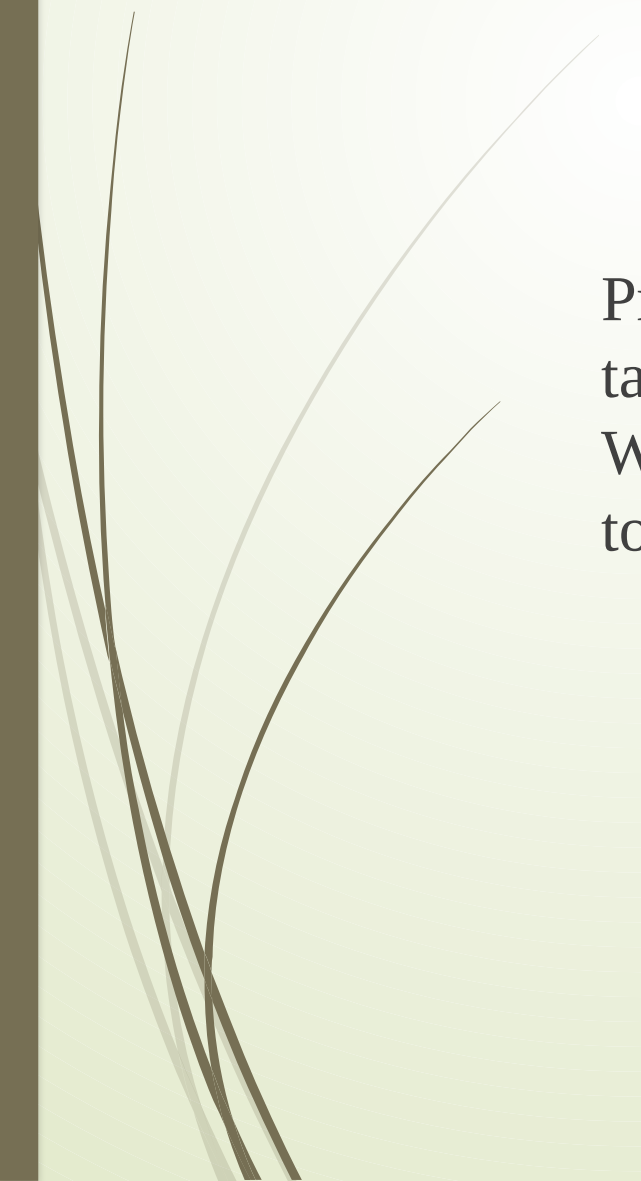


□ *Cloud Architect*

The cloud architect helps design and create cloud-based solutions for clients. This person should be well-versed in cloud computing concepts and have strong problem-solving abilities. Responsibilities may include analyzing requirements, creating cloud architectures, and designing solutions to meet client requirements.



Conclusion



Programming is important for a variety of reasons. It helps us automate tasks, create new technologies, and develop more efficient systems. With the ever-growing importance of technology in our world, learning to program is becoming more and more essential.