Welcome,

PROGRAMMERS

01.

Why you should learn C Language?

Why C Lang?

Reasons

Logical

C makes you think

Foundation

To understand basics of programming

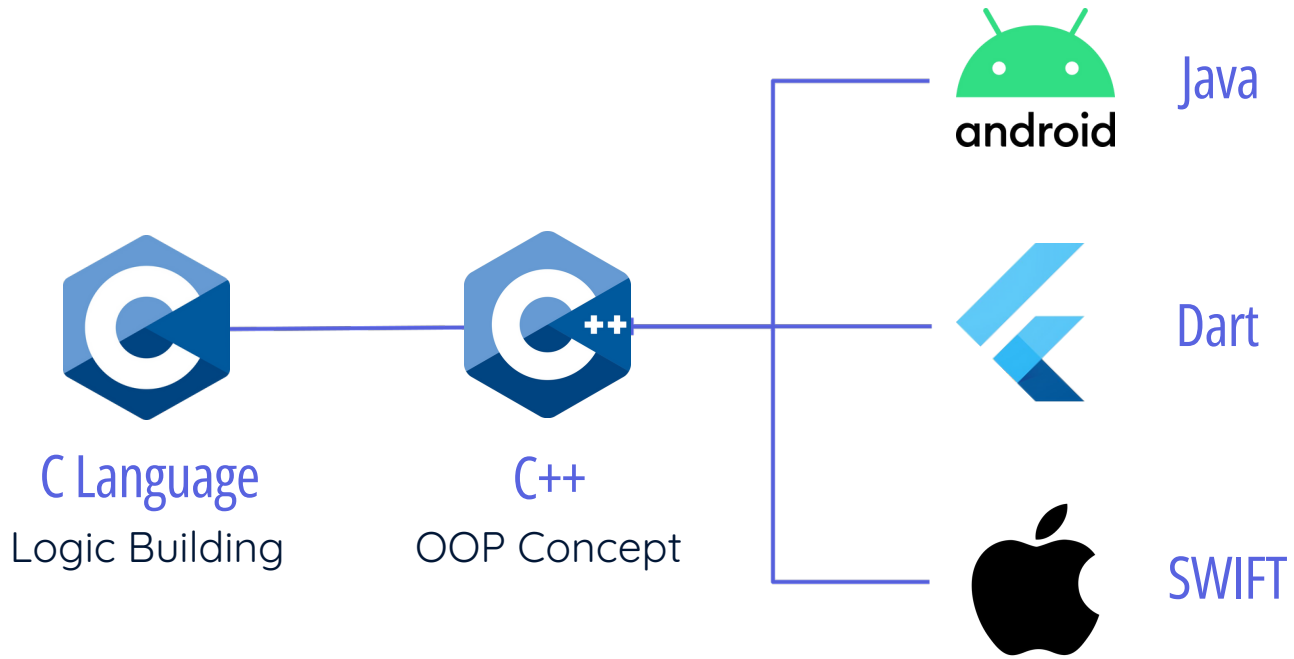
Hardware

C can interact with Hardware

Memory

Memory management can be done manually

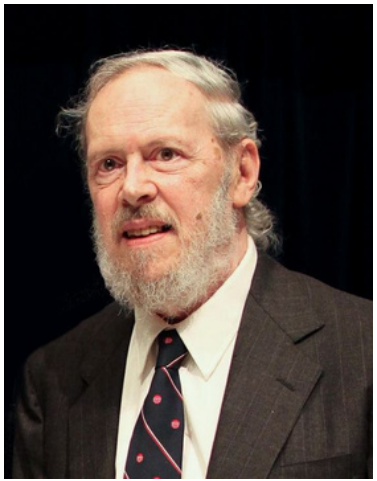
Learning TIMELINE



02.

History of C Lang?

Founder of C Language



Dennis RITchie

Founder of the C language

AT&T Bell Laboratories

1972 - Bell Laboratories

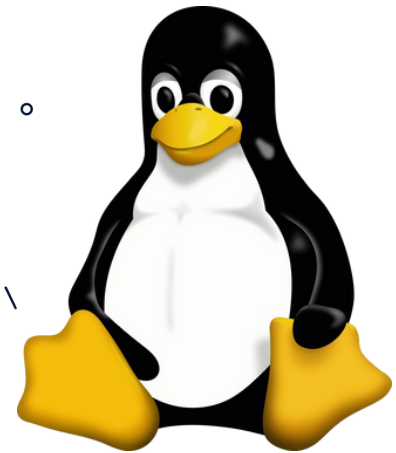
C programming language was developed in 1972 by Dennis Ritchie at Bell laboratories of **AT&T (American Telephone & Telegraph)**, located in the U.S.A.

03.

Why Dennis Ritchie found a new Programming Language C?

Purpose TO Find C Lang?

What Reason TO Find c Lang ?



UNIX OS

Dennis Ritchie wants to **innovate** a new **Operating System**, He has many options to use other programming languages which are already developed, but these languages are working only for low level features so Dennis Ritchie develop a new Language named **C Language**.

Using C language, He creates UNIX OS.

04.

Difference between Compiler & Interpreter

Difference

Compiler & Interpreter?

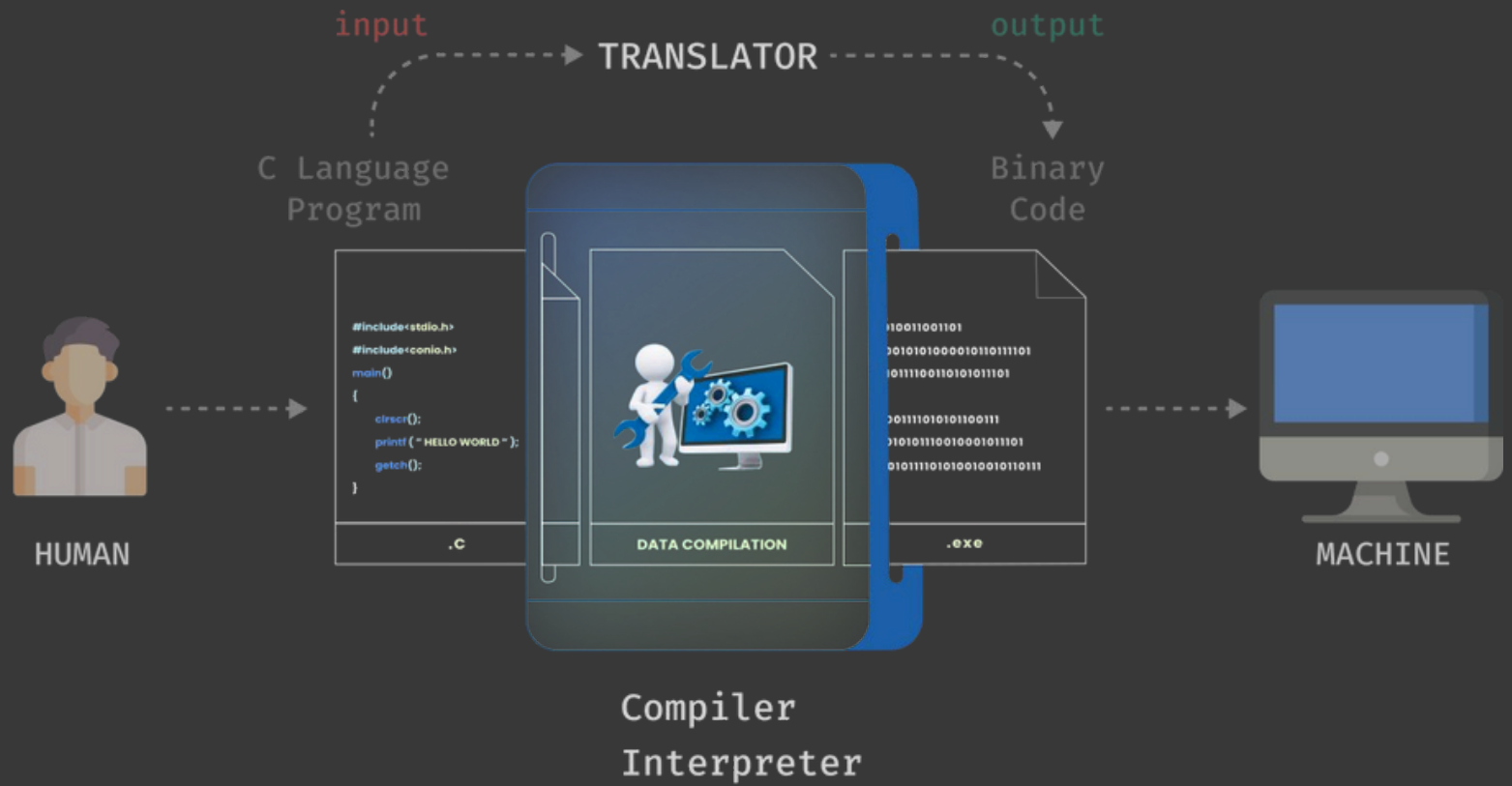
Hello

C Lang

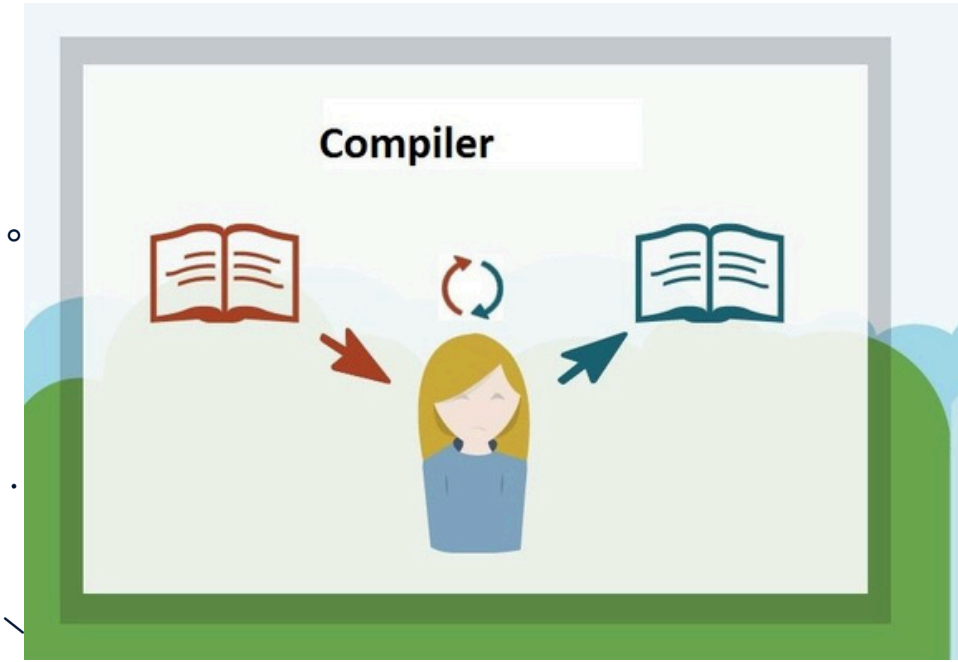
010110

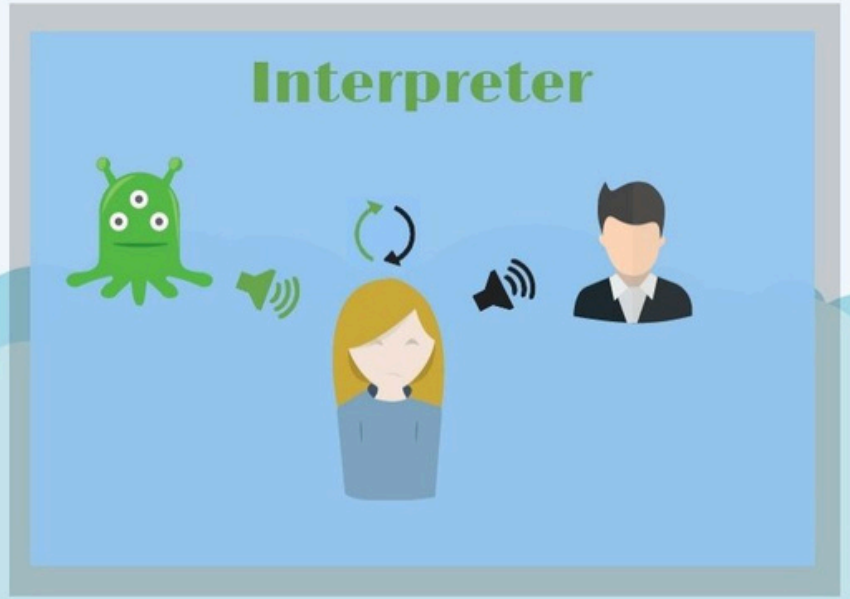
Binary

Translator


input
TRANSLATOR
output
C Language Program
Binary Code
#include<stdio.h>
#include<conio.h>
main()
{
clrscr();
printf (" HELLO WORLD ");
getch();
}
.C
DATA COMPILATION
.exe
HUMAN
MACHINE
Compiler
Interpreter

Types of Translators





Converts **whole program** into binary.

Converts **line by line** into binary.

Compiler vs Interpreter

COMPARISON	COMPILER	INTERPRETER
Input	It takes an entire program at a time.	It takes a single line of code or instruction at a time.
Output	It generates intermediate object code.	It does not produce any intermediate object code.
Working mechanism	The compilation is done before execution.	Compilation and execution take place simultaneously.
Speed	Comparatively faster	Slower
Memory	Memory requirement is more due to the creation of object code.	It requires less memory as it does not create intermediate object code.
Errors	Display all errors after compilation, all at the same time.	Displays error of each line one by one.
Error detection	Difficult	Easier comparatively
Pertaining Programming languages	C, C++, C#, Scala, typescript uses compiler.	PHP, Perl, Python, Ruby uses an interpreter.

C Language

Let's start now...