HISTORY OF C

Basically **C** language designed in **1972** by **Dennis Ritchie**. Ritchie is one of the **programmer** in **AT & T** [**American Telephone & Telegraph**] Bell labs, located at Murray Hills, New Jersy, USA.

Ritchie adopted **C language** from another programming language called **B Language**, designed by **Ken Thomson,** one of the **programmer** in **AT & T Bell labs, which is a failure version**.

B language is developed from another programming language called **BCPL** [**Basic Combined Programming Language**], designed by An **Asst Professor** called **Martin Richards,** in **Cambridge university.**

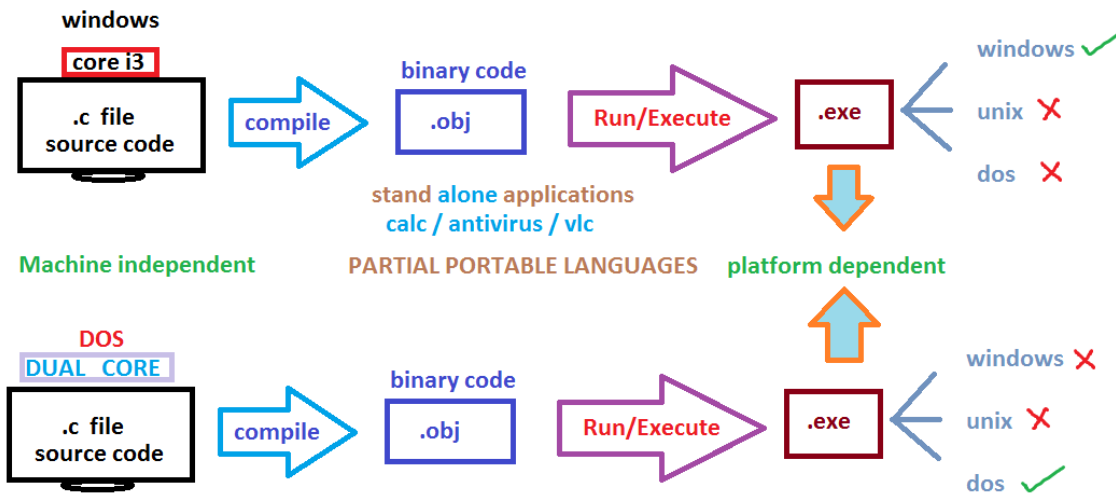Basically **C** language developed to rewrite UNIX operating system.

Now a days we can create a **C** program on any processor, irrespective of the machine configurations. i.e. we can create and execute a c

program on 80486 / 80586 / dual core / core 2 duo / core i3 / i5 / i7 /i9 etc. This kind of programming languages are called machine independent programming languages.

For example the languages like 8056 / 8066 are working only on 8056 & 8066 processors. This kind of languages are called machine dependent programming languages.

C is a platform dependent language. The programs / applications design on a operating systems are working only on that operating system are called platform dependent programming languages. For example we have created a c program on windows system and this program is executed only on another windows system. i.e. it is not working on other operating systems like mac / unix / linux,…..

Due to this we can design only the desktop / standalone applications with C and we can't design web applications.

windows

core i3

.c file
source code

compile → **binary code** .obj → **Run/Execute** → .exe ← windows ✓
unix ✗
dos ✗

stand alone applications
calc / antivirus / vlc

Machine independent **PARTIAL PORTABLE LANGUAGES** **platform dependent**

DOS

DUAL_CORE

.c file
source code

compile → **binary code** .obj → **Run/Execute** → .exe ← windows ✗
unix ✗
dos ✓

M N P

Mobile Number Portability

operators

Jio
Vi
Bsnl

same
airtel
number

Machine independent & Platform independent langauges
or
Cross-Platform programming Languages

Java

.Net

Python

platform independent
cross-platform language

compiler based interpreted languages

web applications

windows

```
.java  →  compile  →  .class  ⇨  jvm
                                interpreter
```

windows

mac

unix
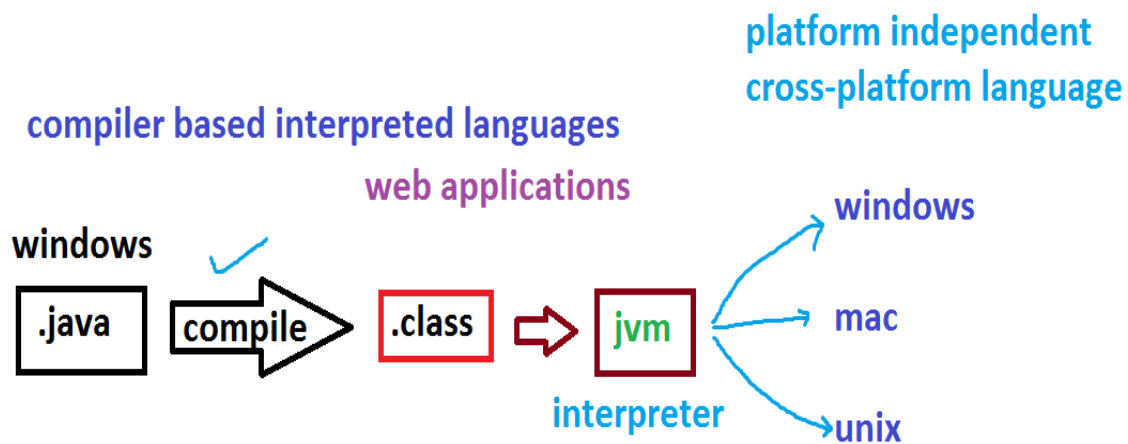
Java is called WORA ==> Write Once Run Anywhere [o.s]

india
win

www -world wide web

us
mac

web app

amazon

uk
unix

japan
linux