

1. History of Programming
2. High Level Languages
3. Introduction to Java

1 + 2 will be converted into binary

1 = 00000001

2 = 00000010

+ = ASCII Value

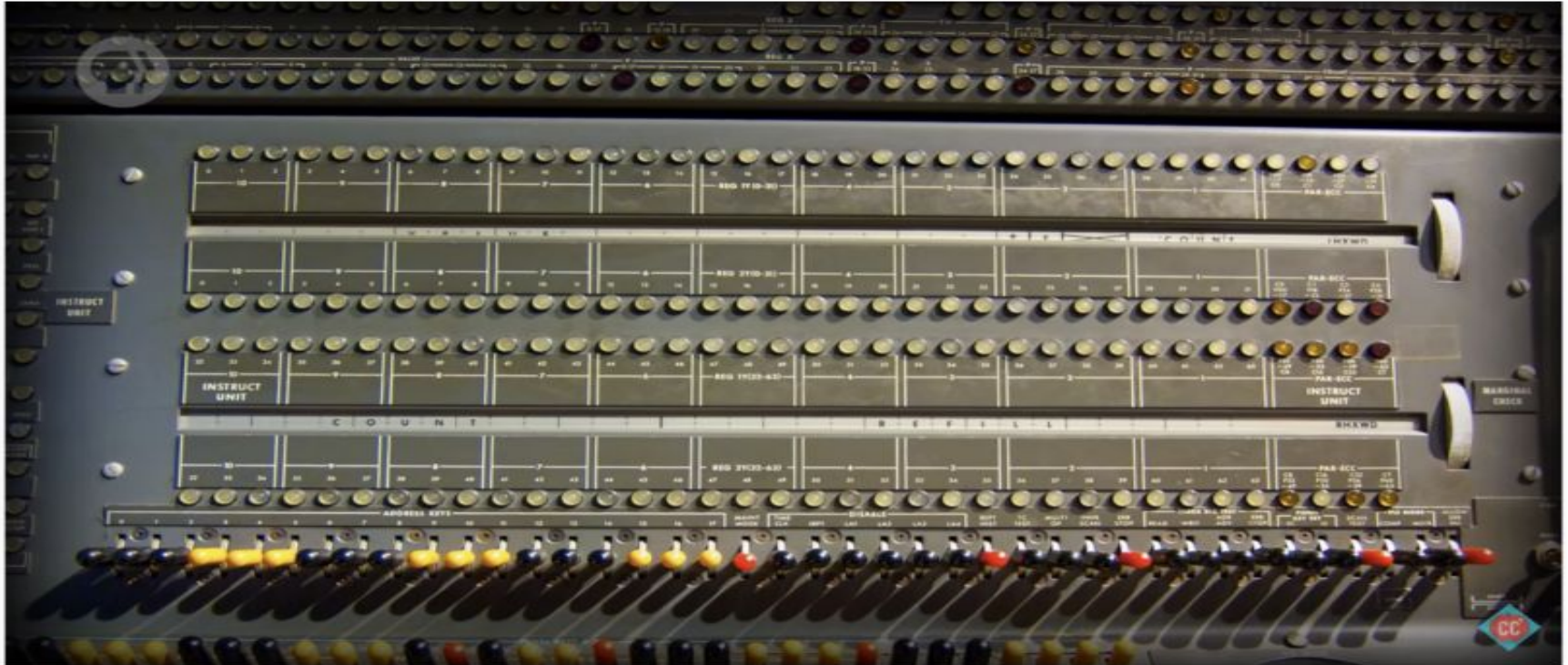
What is punch card ?

Punch cards also known as **Hollerith cards** or **IBM cards**, are paper cards in which holes may be punched by hand or machine to represent computer [data](#) and [instructions](#). They were a widely-used means of [inputting](#) data into early computers. The cards were fed into a card reader connected to a computer, which converted the sequence of holes to [digital](#) information.

Punch Card in Punch Card Machine



Panel Programming

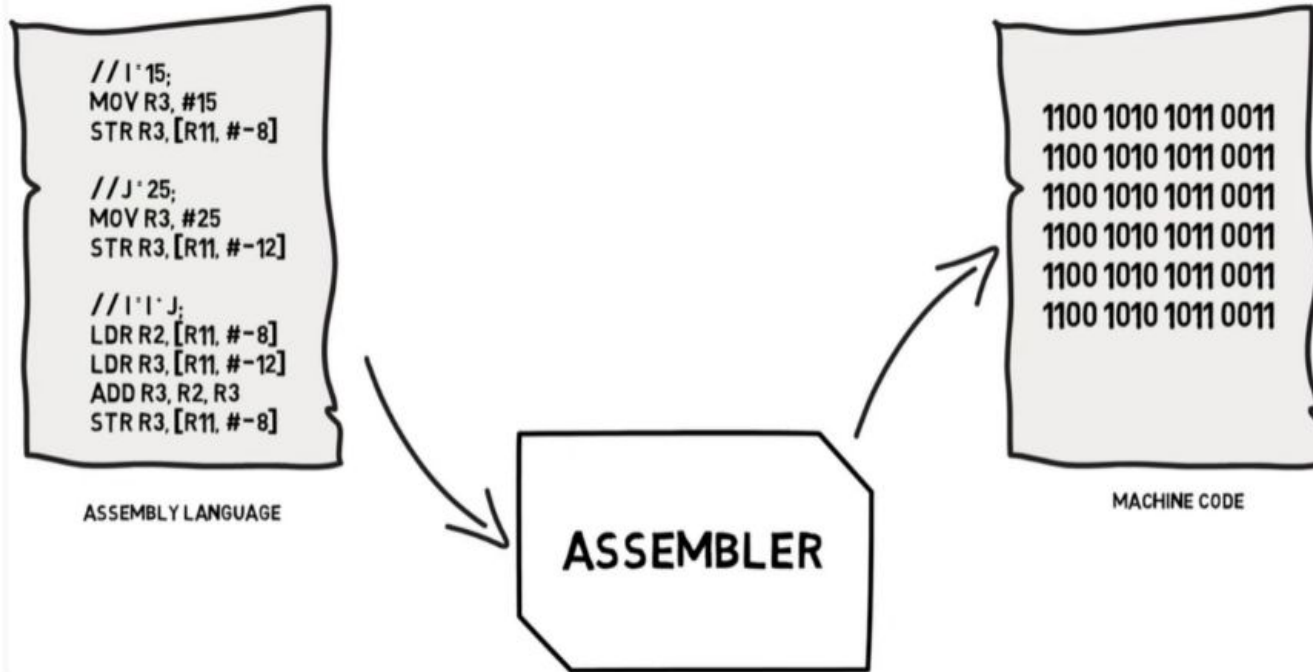


David Wheeler - Assembler

Assembly Language -> Assembler -> Binary Language

One of the drawbacks of Assembly Language was that there used to be unique assembly language for every CPU

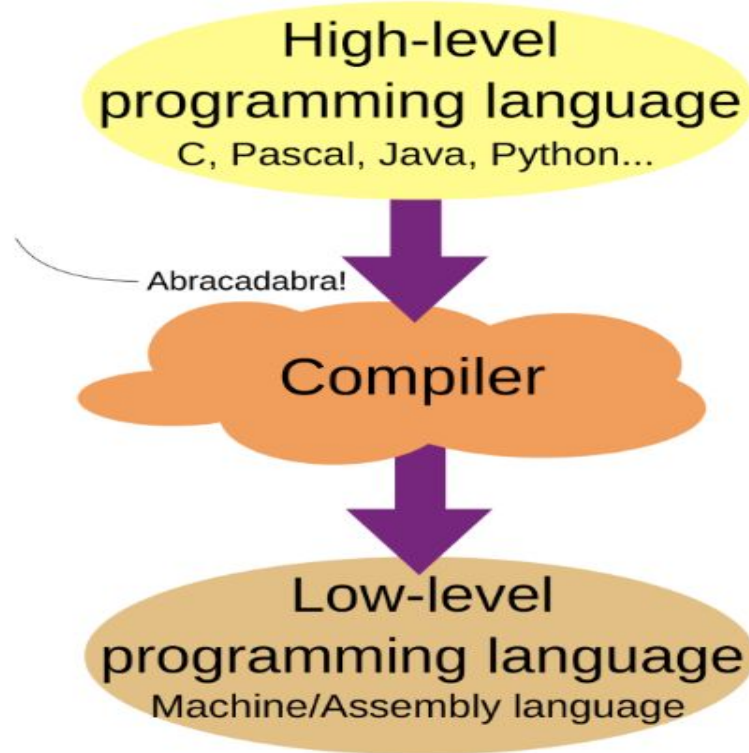
Assembly language - David Wheeler



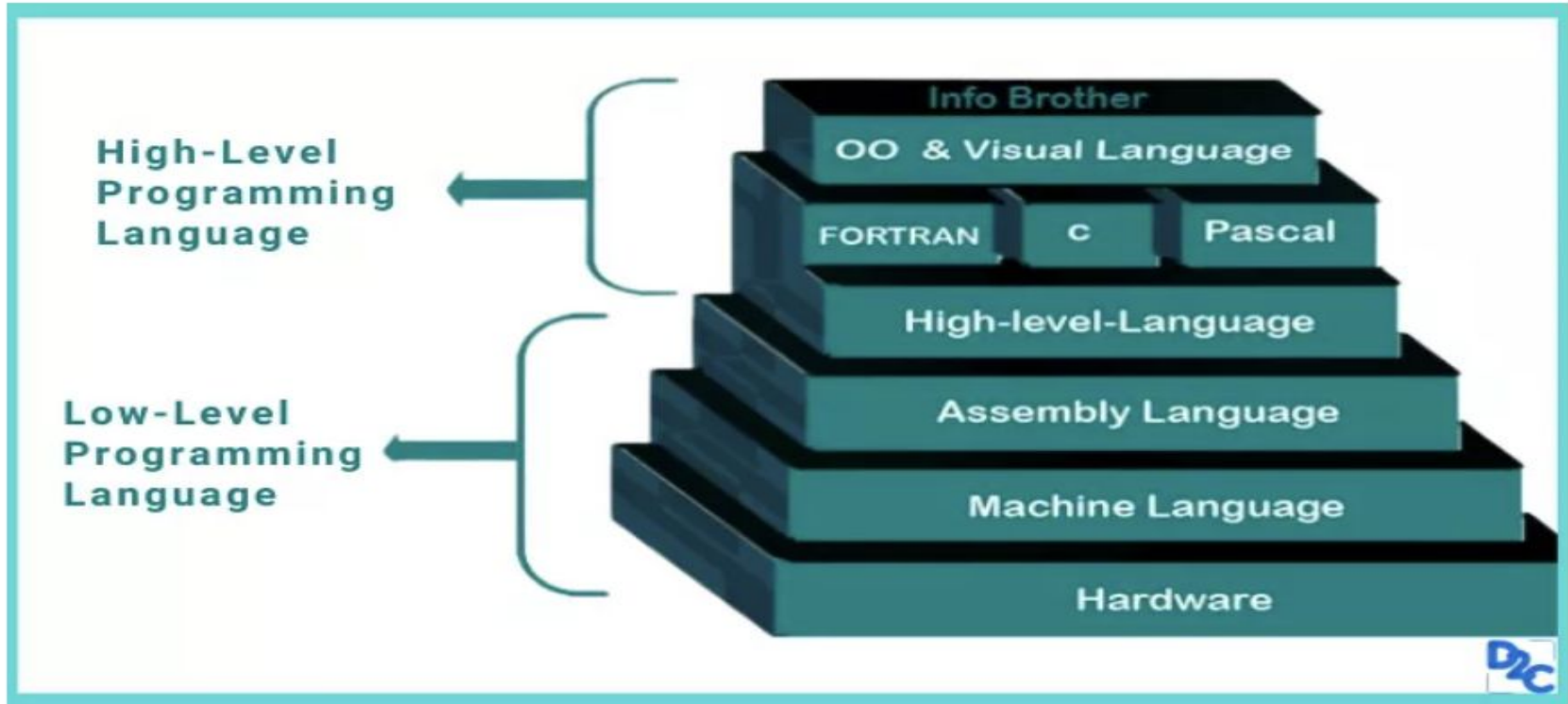
Grace Hopper - Compiler

High Level Language (C, C++, Java, Javascript etc) -> Compiler -> Low Level Language (Assembly/Binary)

High Level Languages - Grace Hopper

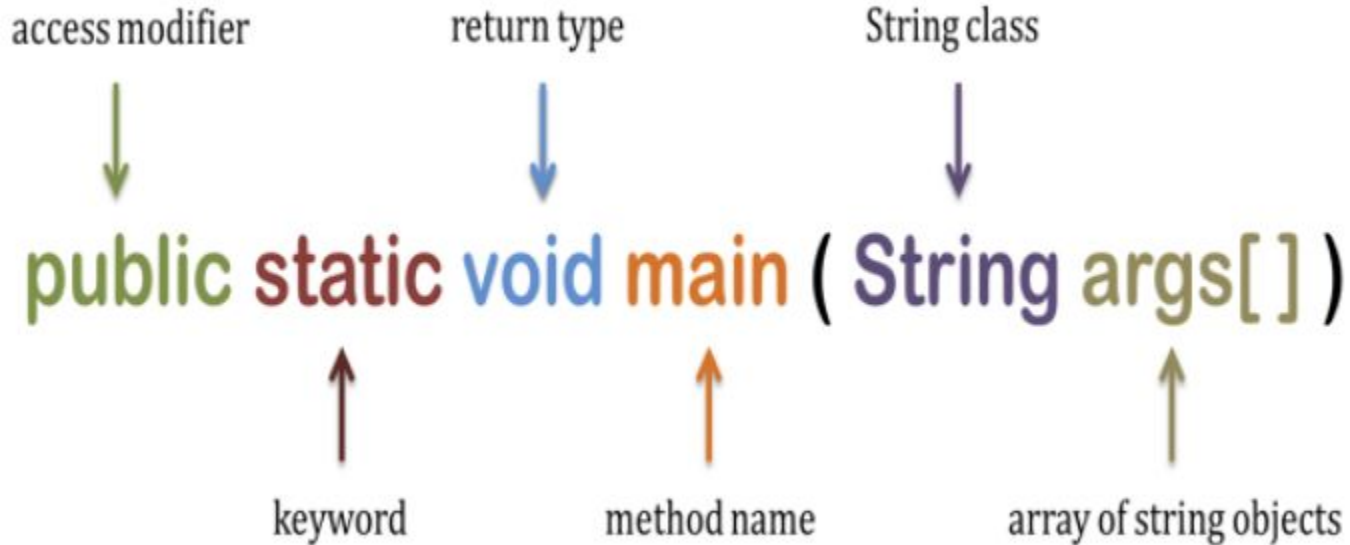


High Level vs Low Level Language



“Hello World in Java”

Different Components of the basic Program



Write a Program to Print this pattern



Java Internals

