

CS1101_s

Orbital

CS2103_T

Internship

...

C#, C++, Go, Java, Kotlin, Ruby, Rust, Python, Swift, Typescript, ...

CS1101_s

```
graph TD; CS1101s[CS1101s] --> CS2030s[CS2030s]; CS1101s --> CS2040s[CS2040s]; CS1101s --> CS2100[CS2100];
```

CS2030_s

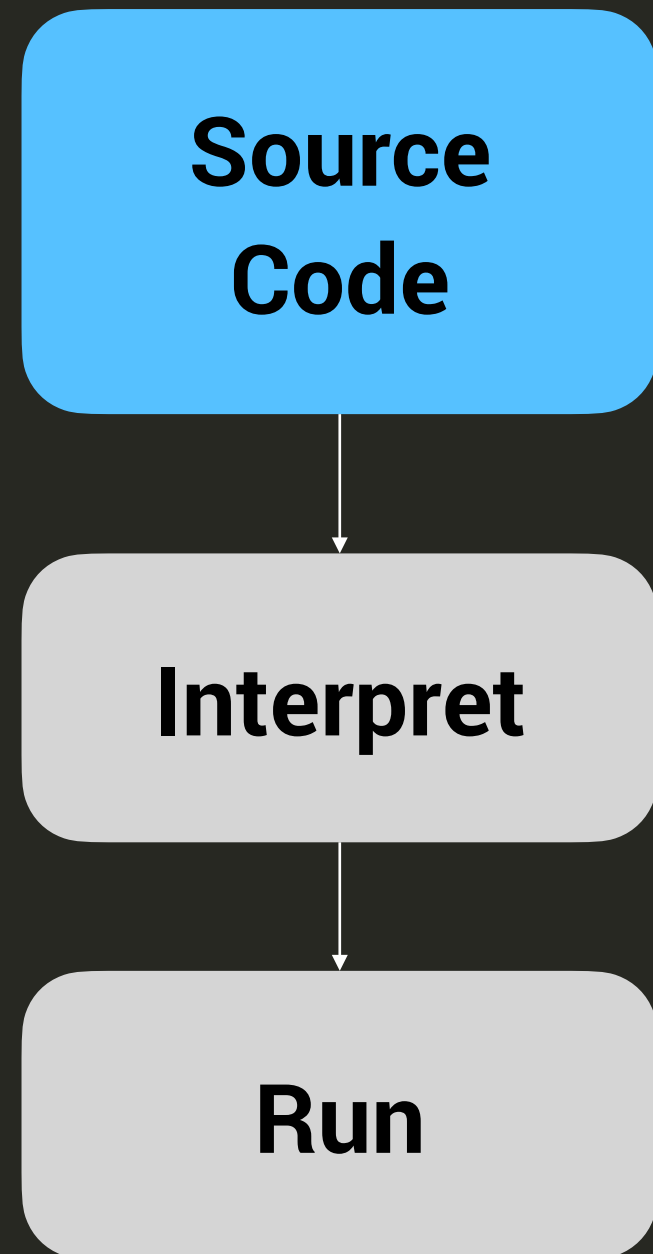
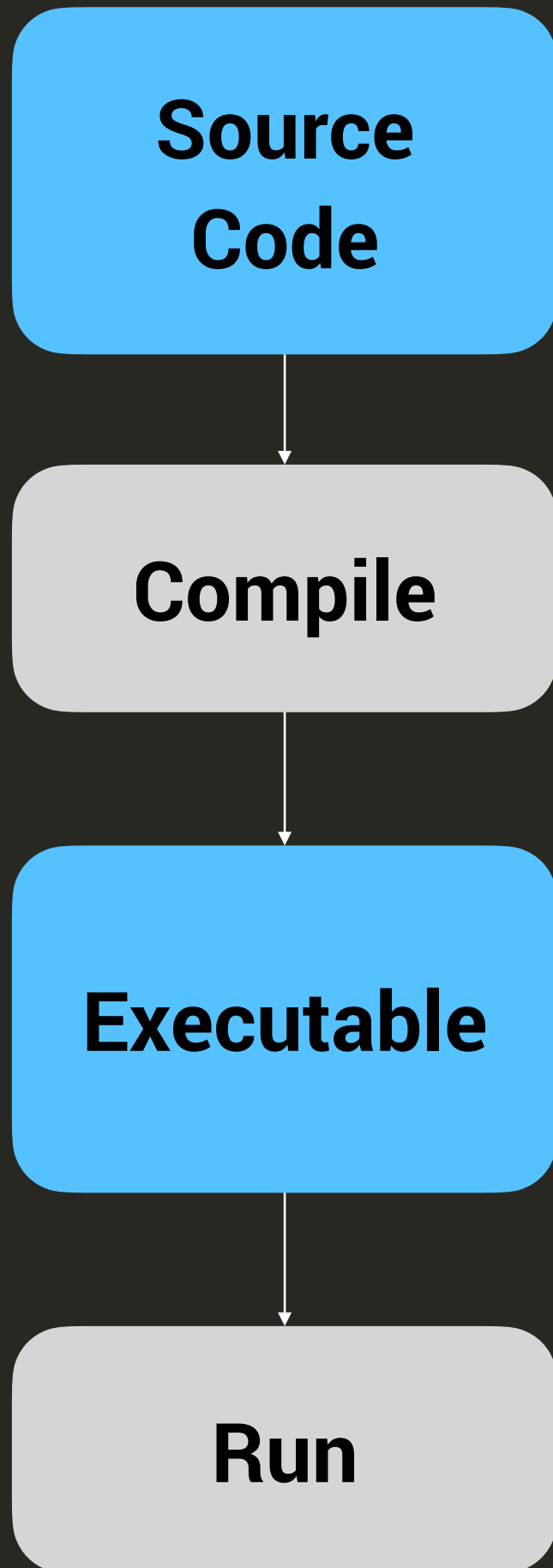
Programming
Languages and
Software
Engineering

CS2040_s

Theory
and
Algorithms

CS2100

Computer
Systems



**Source
Code**

```
graph TD; A[Source Code] --> B[Compile]; B --> C[Bytecode]; C --> D[Interpret]; D --> E[Run];
```

Compile

Bytecode

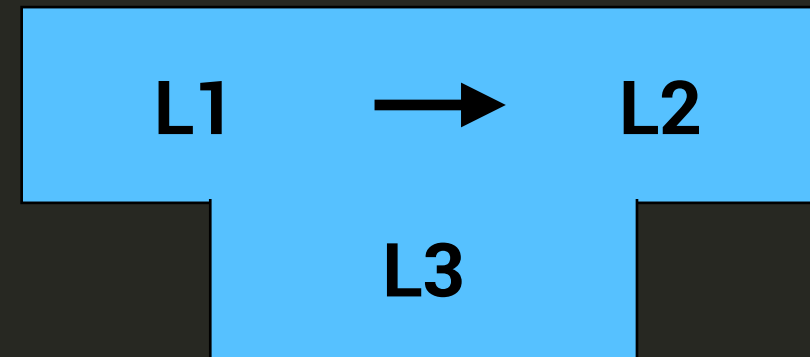
Interpret

Run

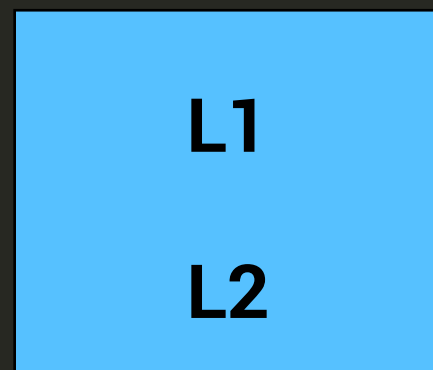
Program written in L



A compiler written in L3
compiling from L1 to L2

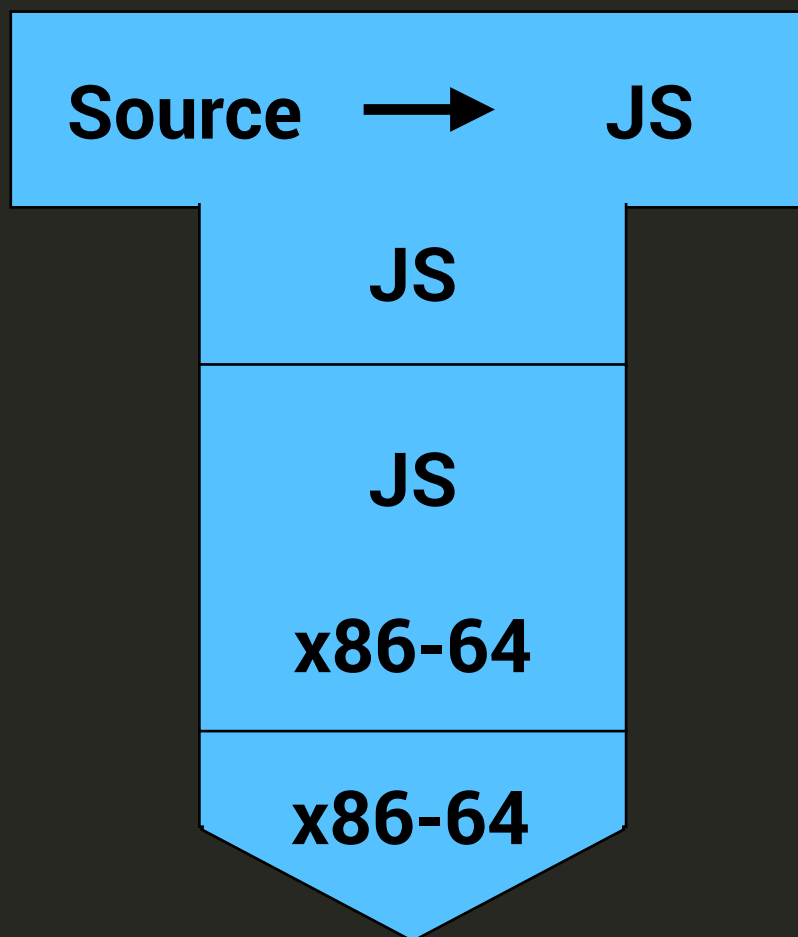


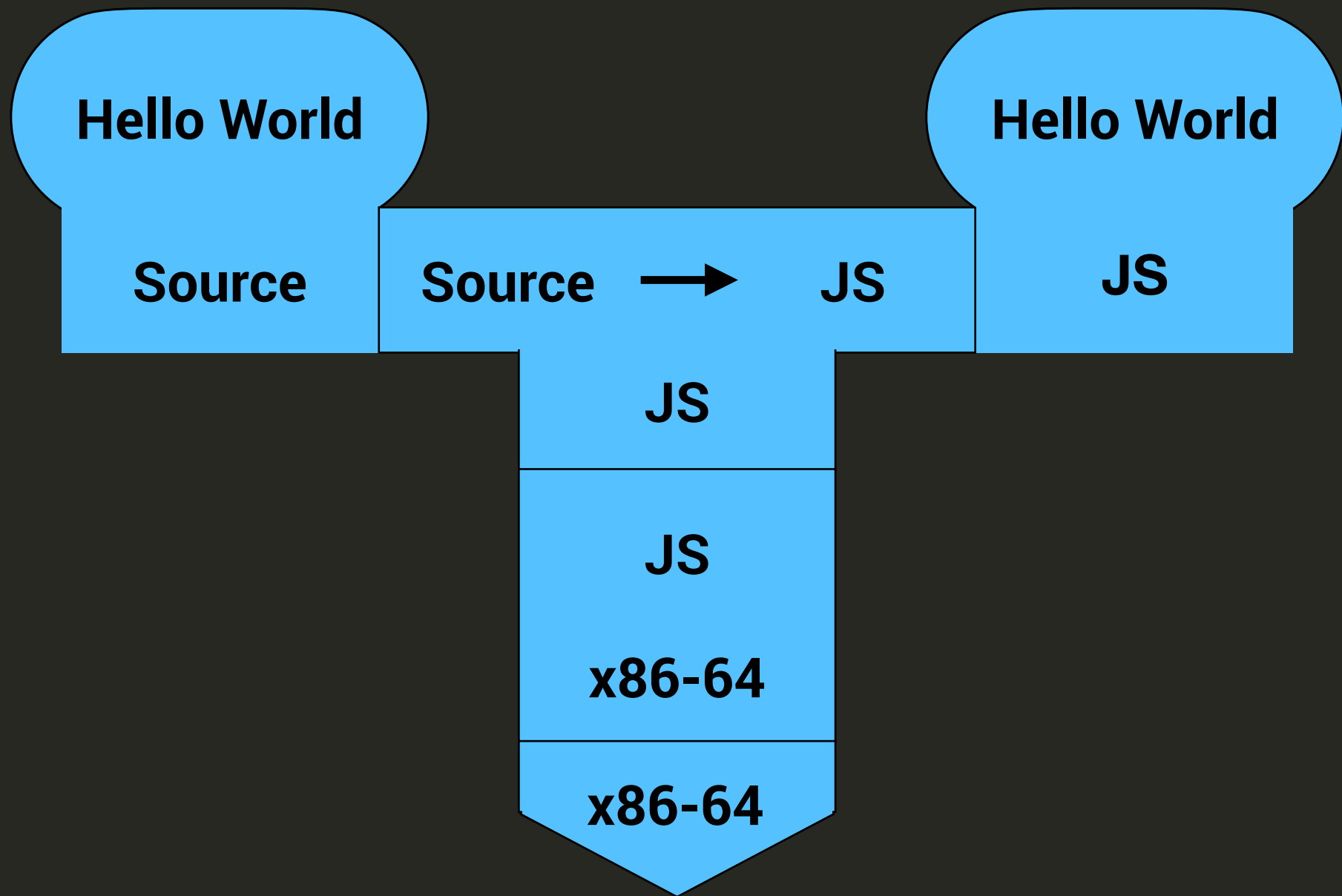
An interpreter written L2
interpreting L1



A machine
running in L







Hello World

JS

JS

x86-64

x86-64

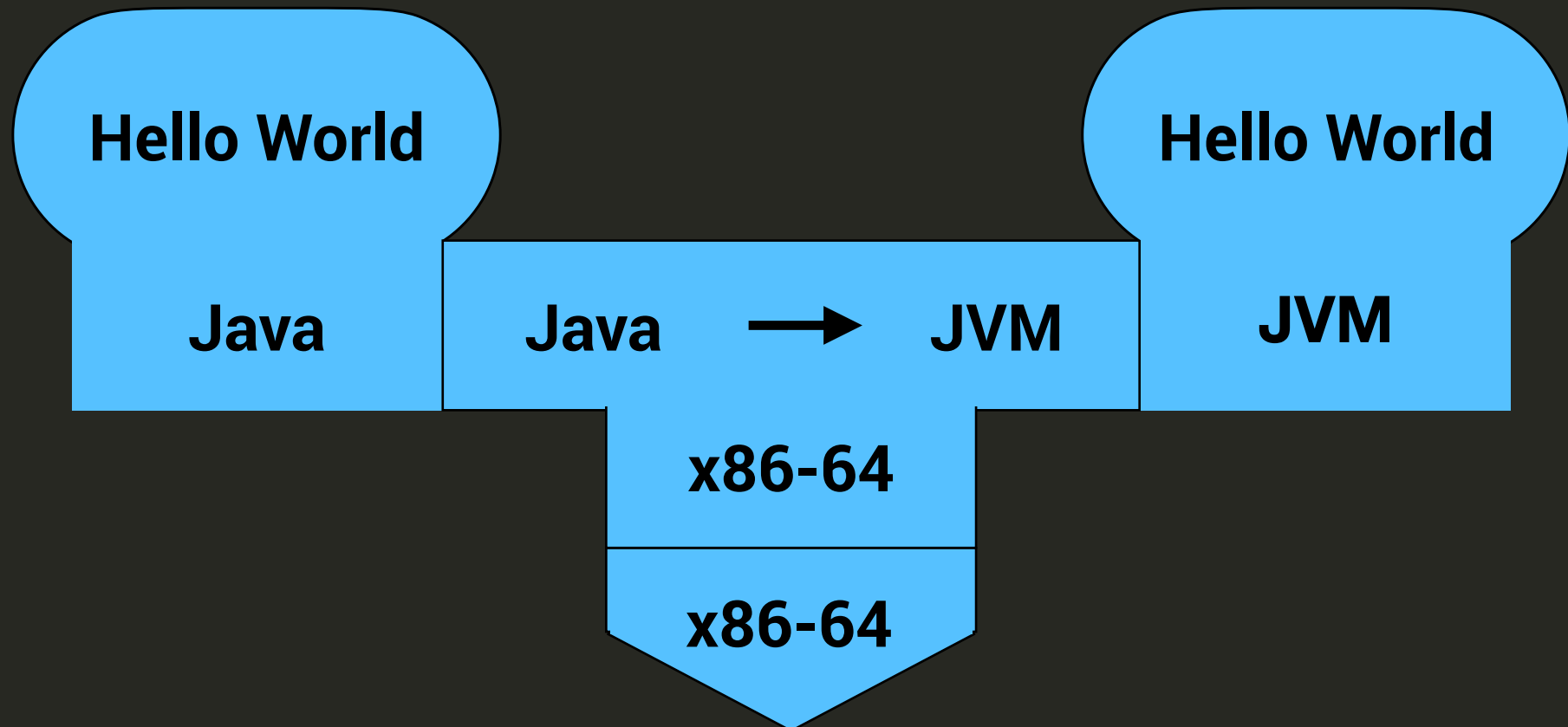
Hello World

Python

Python

x86-64

x86-64



Hello World

JVM

JVM

x86-64

x86-64

Hello World

Java

Java

:

x86-64

x86-64

