

# Twitter Thread by Ahmad Awais

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**Google has released a new language called Carbon.**

## What is it? ■

It's similar to what TypeScript is to JavaScript.

JavaScript → TypeScript

Objective C → Swift

Java → Kotlin

C → C++

Similarly:

Carbon → C++

What about Rust?

Well, if Rust works for you today, keep using it.

But moving a C++ ecosystem to Rust is hard.

A good successor language

- Builds on the current ecosystem
- Without bootstrapping a new one
- Provides bi-directional interoperability
- Optimizes the learning curve + adoption
- Ideally has tool-assisted migration support

Carbon has all of that ■

That makes it an excellent experimental successor to C++. I especially like the migration support and easier syntax.

Carbon goals as a successor language

- Performance-critical software
- Software and language evolution
- Code that is easy to read, understand, and write
- Practical safety and testing mechanisms
- Fast and scalable development

There's more ↓

- Modern OS platforms, hardware architectures, and environments support
- Interoperability with and migration from existing C++ code — use C++ in Carbon and Carbon in C++.

```
// Carbon file: student.carbon
import Math; // 🔥 Importing C++ in Carbon
struct Student {
    ... float marks;
    ... // ... ..
};

// Carbon used in C++:
package Geometry api;
import Cpp library "student.carbon.h"; // 🔥 Importing carbon in C++
import Math;
```

I hope you learned something new today.

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<https://t.co/hjAMyovrbh>

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What is it? \U0001f9f5

— Ahmad Awais (@MrAhmadAwais) [July 24, 2022](#)