Carbon Language: First Look

Why Evaluate Carbon Now?



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Carbon Language: First Look

Version Check

Version Check



This course was created by using:

- Carbon Language 0.0
- Ubuntu 22.04.4 LTS in WSL

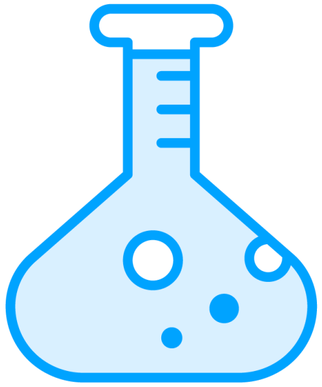
Version Check



This course is 100% applicable to:

- The prerelease Carbon 0.0

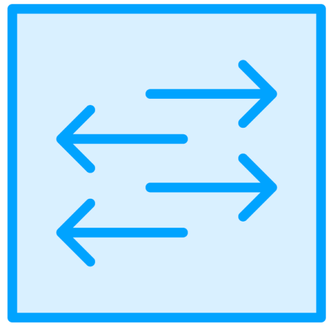
What is Carbon?



An experiment: building a new language

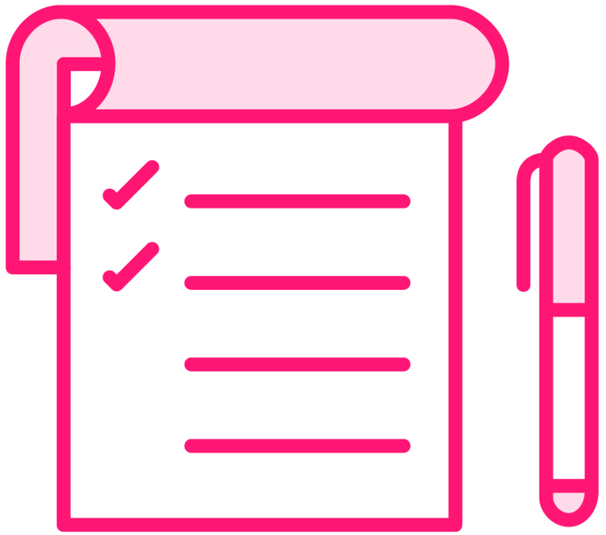


A language designed to change over time



A possible replacement for C++ in some code bases

Goals For the Carbon Language



Performance

- As good as C++ or better

Interop (bidirectional) with C++

Easy to learn

Expressive

Support safety, testing, and other “modern” development

An inclusive and welcoming community

Carbon is NOT

Complete enough for you to use today in a real system

A C++-killer

A Rust-killer

Guaranteed backwards compatible

You Should Evaluate Carbon if:



No existing language is meeting all your needs

You want to interop to existing code and build on existing C++ skills

You have a project in mind

- But don’t mind if you can’t do part of it yet

You don’t frustrate easily

You are willing to contribute

Governance

All open source

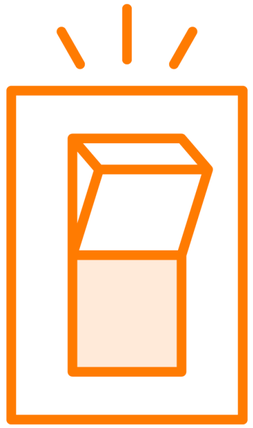
Consensus

Leads

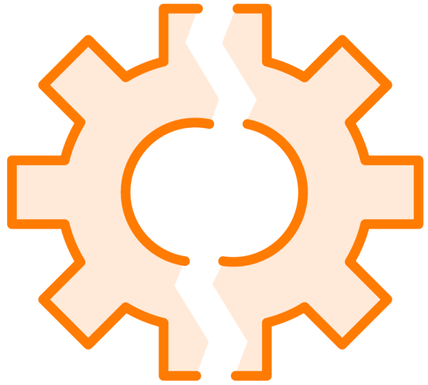
Carbon Will Change Over Time



It’s impossible to predict future needs and environments



Shipping a tool to update old code enables agility



Promising to never break code prevents future gains

What Can You Evaluate?

Some syntax basics

Overall goals and priorities

Governance and community

Future plans and schedule