



# C++ as Object Oriented Language

In this lesson, we'll learn about the evolution of object-oriented programming in C++.

We'll cover the following



- Origin of OOP in C++
- Concepts in OOP
- Preference over other Languages
- Author's Words

## Origin of OOP in C++#

C is a procedural language and it was used and trusted by programmers at large. When the **object-oriented** paradigm was being introduced, *Bjarne Stroustrup* incorporated the object orientation features in C and hence introduced C++ . It was initially introduced as **C with classes** and later renamed to C++.

## Concepts in OOP#

Soon C++ became widely acceptable object-oriented language. To introduce an object-oriented approach in C *Stroustrup* introduced concepts of *Classes*, *objects*, *inheritance*, *dynamic binding*, and *polymorphism*. We will be discussing each one of them later in our chapters in detail.

## Preference over other Languages#



C++ was successfully used in many applications including embedded systems, system programming, as well as for higher level programming tasks. Some people though argue that C++ is not a pure object-oriented Language. Reason being the use of `main()` function in C++ that can exist without any Class. Since making a Class is not a primary requirement in C++ hence it is considered a partial object-oriented language. However, the choice and use of language depend on the programmer and his nature of the problem. To-date many programmers still use C++ as object-oriented language regardless of other Pure object-oriented languages available.

## Author's Words#

If you are interested in reading more about C++ as an **object-oriented** language, a highly recommended text is Why C++ is not just an Object Oriented Language (<http://www.stroustrup.com/oopsla.pdf>) by *Bjarne Stroustrup*. A little old text but it gives you the creator's own perspective of explaining C++ as a language.

In the next lesson, we'll learn about the difference between three popular languages which use the object-oriented approach.

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What is OOP?

C++ vs Java vs C#



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