Modern Object-Oriented Languages

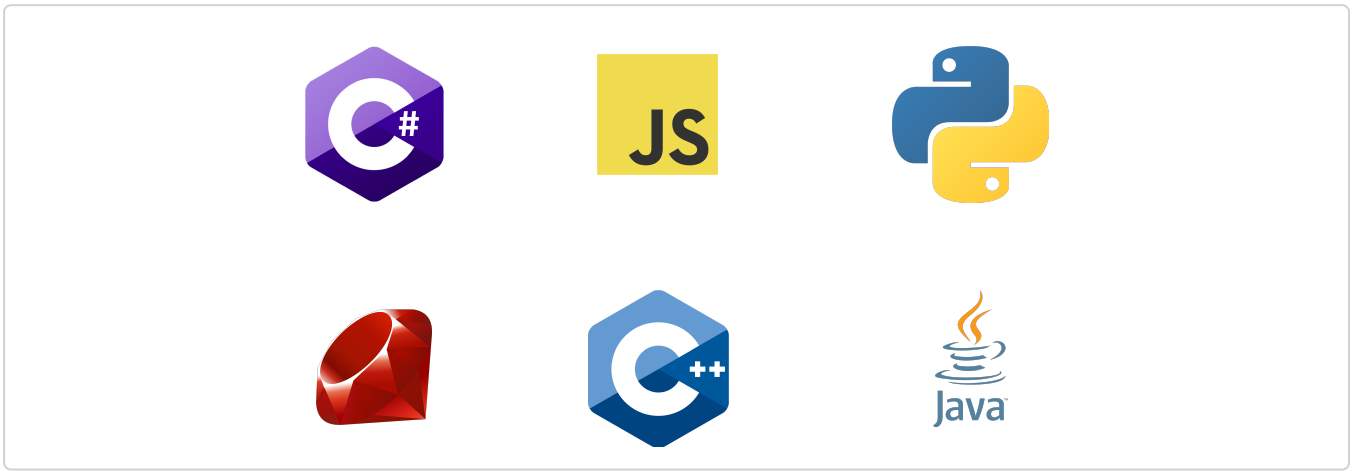
This lesson is about the most popular Object-Oriented Programming languages and how C# is an elegant OOP language.

WE'LL COVER THE FOLLOWING

Other Languages

Nowadays, there are a lot of object-oriented programming languages being used around the globe and C# is one of them.

Each language has its own pros and cons. A language is chosen depending on the nature of the task to be performed. Below, we can find some of the most popular programming languages and the respective areas where these languages are most widely used:



- **C#:** Game development, web forms, Windows, and web applications development.
- **JavaScript:** Rapid and productive web development.
- **Python:** Data science, machine learning, artificial intelligence, and web

development.

- **Ruby:** Web application development.
- **C++:** System software development.
- **Java:** Mostly used for enterprise-level and Android software development.

C#

C# is an elegant object-oriented programming language. It is designed for developing apps on the Microsoft platform and requires the .NET framework to work.

C# is often thought of as a hybrid that takes the best of C and C++ to create a truly modernized language. Although the .NET framework supports several other coding languages, C# has quickly become one of the most popular ones.

The key to C#'s popularity has been its use cases. C# is being widely used in:

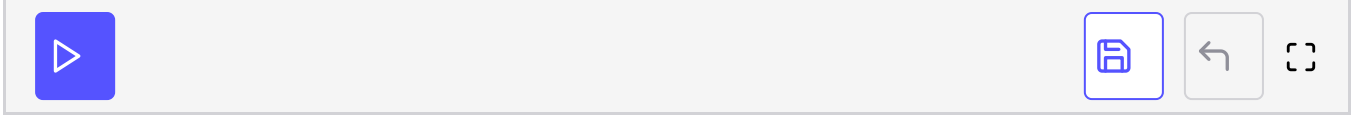
- Windows desktop application development
- Game development
- Mobile development
- Web application development

C# is *cross-platform compatible*. The flexibility, ease of use, and other built in features of C# have made it a highly demanded programming language.

If you are familiar with C#, you must have noticed that whenever a program is written, it is written inside a **class**. In this class, a `Main()` method is defined which is the entry point to a C# program.

Let's start with writing a piece of code that will add two numbers and then print their sum to the console:

```
class Program
{
  static void Main()
  {
      int firstNum = 5;
      int secondNum = 10;
      System.Console.WriteLine("The sum is: " + (firstNum + secondNum));
  }
}
```



In the above code, there is a `Program` class and inside this `Program` class there is a `Main()` method. The highlighted lines show the start and end of the `Program` class.

This shows that even a basic program in C# is using classes. From this, it can be inferred that C# is an OOP-based language.

The next lesson serves as a preface to this course.