



NO COMPLICATIONS

A PRACTICAL GUIDE TO
beginners

Your first steps
in programming.



INTRODUCTION

If you're taking your first steps in programming, C# (C Sharp) is an excellent language to start with. It was created by Microsoft and is a modern, versatile language widely used in the development of software, websites and even video games via the Unity platform.

One of its key advantages is its clear and well-organised syntax, which makes it easier to learn the fundamental concepts of programming. It is, at the same time, a powerful language used in real-world projects, making it a highly valued skill in the job market.

Throughout this guide, you'll learn the key concepts of C#, from creating your first programme to using variables, operators, conditions, loops, methods and classes. Each topic will be explained in a straightforward way and accompanied by practical examples and an exercise.

By the end, you'll have a solid foundation to continue exploring the world of programming and will be able to develop more comprehensive projects. The aim of this guide is not to turn you into a C# expert, but rather to provide you with fundamental knowledge and encourage independent learning.

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CHAPTER 1

1. REQUIRED TOOLS

To get the full experience, you'll need to set up a development environment. In this chapter, you'll find step-by-step instructions.

This guide will use Visual Studio, a free IDE developed by Microsoft and available for Linux, macOS and Windows. Visual Studio brings together all the tools needed to write, organise, run and test programmes in C#.

- Install Visual Studio
 - Go to the official Microsoft website and download Visual Studio Community.
 - Run the installer.
 - When the installation window appears, select the .NET desktop development option.
 - Click 'Install' and wait for the installation to finish.

NOTE: When you select this option, the .NET SDK will be installed automatically; no further installation is required.

- Create a Console App project
 - Open Visual Studio.
 - Click on 'Create a new project'.
 - Search by Console App.
 - Select 'Console App (C#)' and click 'Next'.
 - Choose a name for the project (for example, FirstProgramme).
 - Click on Create.

NOTE: Visual Studio will automatically create the project structure.

- Run the first programme

When you open the project, you will find a file called Program.cs, where you will write the code.

Try replacing the existing code with:

```
Console.WriteLine("Hello! This is my first programme in C#.");
```

To run the programme:

1. Click the Start button on the top bar of Visual Studio.
2. Alternatively, press the F5 key.
3. A console window will open displaying the message written in the code.

If you can see the message, it means your development environment is set up correctly and you're ready to start learning C#.

NEXT STEPS

Chapter 1 done!

Ready for the rest?

- ✓ 11 step-by-step chapters, starting from your very first command
- ✓ Practical challenges to put your new skills into action
- ✓ A hands-on mini project + solutions

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C#

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