

# Installing C # environment

In this chapter, we will introduce the tools needed to install the C # environment. We mentioned that C # is part of the .Net Framework and is used to write .Net applications. Therefore, before discussing the tools available to run a C # program, you should understand how C # relates to the .Net Framework.

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## Introducing .Net Framework

.Net Framework is a revolutionary platform that helps you write the following application types:

1. Windows application
2. Web application
3. Web service

.Net Framework applications are cross-platform applications. The platform has been designed in such a way that it can be used from any programming language: C #, C ++, Visual Basic, Jscript, COBOL, . All these languages ??have access to this platform and communicate with each other.

.Net Framework includes a huge code library used by client languages ??like C #. Here are some components of the .Net Framework.

1. Common Language Runtime (CLR)
2. .Net Framework Class Library
3. Common Language Specification
4. Common Type System
5. Metadata and Assembly
6. Windows Form
7. ASP.Net and ASP.Net AJAX
8. ADO.Net
9. Windows Workflow Foundation (WF)
10. Windows Presentation Foundation
11. Windows Communication Foundation (WCF)
12. LINQ

## Integrated Development Environment (IDE) for C #

Microsoft provides the following development tools for C # programming:

1. Visual Studio 2010 (VS)
2. Visual C # 2010 Express (VCE)
3. Visual Web Developer

The following two tools are available and free at the official website of Microsoft. Using these tools, you can write all kinds of C # programs from simple command line applications to more complex applications. You can also write source code files of C # using a basic Text Editor, like Notepad, and compile that code in Assembly by using Command-line Compiler, which is part of the .Net Framework.

In this series, we use Visual C # 2010 Express and you can download it from: Microsoft Visual Studio. It is installed automatically on your computer.

### **Write a C # program on Linux or Mac OS**

Although .Net Framework runs on Windows OS, there are also some alternative versions that work on other operating systems. Mono is an open source version of .Net Framework that includes a C # compiler and runs on some operating systems, including Linux and Mac OS. You can access: [Go Mono](#).

The purpose of Mono is not only to run on .Net applications on Microsoft, but also to provide development tools for Linux developers. Mono can run on many different operating systems, such as Android, BSD, iOS, Linux, OS X, Windows, Solaris, and UNIX.

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