

1. what is

A coding style guide, also known as programming style guide, is a set of rules or guidelines used when writing source code for a computer program³. It helps to maintain consistency, especially in a team setting, and makes it easier for others to read and understand your code².

Every major open-source project has its own style guide. For example, Google has style guides for different languages like Java, Python, C++, and more¹. These guides cover a lot of ground, from naming conventions (like "use camelCase for variable names") to usage rules (like "never use global variables" or "never use exceptions")¹.

Similarly, W3Schools provides a style guide for HTML, which includes guidelines for things like always declaring the document type, using lowercase element names, closing all HTML elements, and more².

In essence, a good style guide contributes to better code quality, easier maintenance, and collaborative efficiency⁴.

Source(s)

1. [What is a Programming Style Guide and why should you care](#)
2. [HTML Style Guide and Coding Conventions - W3Schools](#)
3. [Google Style Guides | styleguide](#)
4. [How to Create a Programming Style Guide | PullRequest Blog](#)
5. <https://creativecommons.org/licenses/by/3.0/>
6. <https://www.w3schools.com/html/>

2. enforce in C#

- **StyleCop:**
 - This tool provides warnings that indicate style and consistency rule violations in C# code³.
 - It can be integrated into your CI build and cause build failures if any violations have been introduced⁴.
 - You can install Stylecop via NuGet (the StyleCop.MSBuild package)³.
- **ReSharper:**
 - This is another popular tool among developers¹. However, it's a paid product, so not all developers may have licenses¹.
- **FxCop:**
 - This is a free tool that is well integrated into the IDE¹.
- **Microsoft Code Analysis:**
 - This is another tool you can consider¹.
- **EditorConfig file in Visual Studio:**
 - You can use an EditorConfig file when you want to enforce coding styles for all contributors to your repo or project⁵.
 - You can manually populate your EditorConfig file, or you can automatically generate the file based on the code style settings you've chosen in the Visual Studio Options dialog box⁵.
- **.NET documentation C# Coding Conventions:**
 - Microsoft provides a set of coding conventions for C# that you can follow or modify to suit your team's needs².

Source(s)

1. [Enforce C# Coding Standards with StyleCop.MSBuild for VS](#)
2. [c# - How to ensure a single coding standard in .NET with tool support ...](#)
3. [How to enforce coding style conventions in C#? - Stack Overflow](#)
4. [Code style options and code cleanup - Visual Studio \(Windows\)](#)
5. [.NET documentation C# Coding Conventions - C# | Microsoft Learn](#)