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 program[3](https://google.github.io/styleguide/). It helps to maintain consistency, especially in a team setting, and makes it easier for others to read and understand your code[2](https://www.w3schools.com/htmL/html5_syntax.asp).

Every major open-source project has its own style guide. For example, Google has style guides for different languages like Java, Python, C++, and more[1](https://medium.com/level-up-web/what-is-a-programming-style-guide-and-why-should-you-care-9019e51bb7ad). 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](https://medium.com/level-up-web/what-is-a-programming-style-guide-and-why-should-you-care-9019e51bb7ad).

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 more[2](https://www.w3schools.com/htmL/html5_syntax.asp).

In essence, a good style guide contributes to better code quality, easier maintenance, and collaborative efficiency[4](https://www.pullrequest.com/blog/create-a-programming-style-guide/).

Source(s)

1. [What is a Programming Style Guide and why should you care](https://medium.com/level-up-web/what-is-a-programming-style-guide-and-why-should-you-care-9019e51bb7ad)

2. [HTML Style Guide and Coding Conventions - W3Schools](https://www.w3schools.com/htmL/html5_syntax.asp)

3. [Google Style Guides | styleguide](https://google.github.io/styleguide/)

4. [How to Create a Programming Style Guide | PullRequest Blog](https://www.pullrequest.com/blog/create-a-programming-style-guide/)

5. <https://creativecommons.org/licenses/by/3.0/>

6. <https://www.w3schools.com/html/>

1. enforce in C#

* **StyleCop**:
  + This tool provides warnings that indicate style and consistency rule violations in C# code[**3**](https://stackoverflow.com/questions/54708748/how-to-enforce-coding-style-conventions-in-c).
  + It can be integrated into your CI build and cause build failures if any violations have been introduced[**4**](https://learn.microsoft.com/en-us/visualstudio/ide/code-styles-and-code-cleanup?view=vs-2022).
  + You can install Stylecop via NuGet (the StyleCop.MSBuild package)[**3**](https://stackoverflow.com/questions/54708748/how-to-enforce-coding-style-conventions-in-c).
* **ReSharper**:
  + This is another popular tool among developers[**1**](https://stayrony.github.io/stylecop-settings/). However, it's a paid product, so not all developers may have licenses[**1**](https://stayrony.github.io/stylecop-settings/).
* **FxCop**:
  + This is a free tool that is well integrated into the IDE[**1**](https://stayrony.github.io/stylecop-settings/).
* **Microsoft Code Analysis**:
  + This is another tool you can consider[**1**](https://stayrony.github.io/stylecop-settings/).
* **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 project[**5**](https://learn.microsoft.com/en-us/dotnet/csharp/fundamentals/coding-style/coding-conventions).
  + 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 box[**5**](https://learn.microsoft.com/en-us/dotnet/csharp/fundamentals/coding-style/coding-conventions).
* **.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 needs[**2**](https://softwareengineering.stackexchange.com/questions/138123/how-to-ensure-a-single-coding-standard-in-net-with-tool-support).

Source(s)

1. [Enforce C# Coding Standards with StyleCop.MSBuild for VS](https://stayrony.github.io/stylecop-settings/)

2. [c# - How to ensure a single coding standard in .NET with tool support ...](https://softwareengineering.stackexchange.com/questions/138123/how-to-ensure-a-single-coding-standard-in-net-with-tool-support)

3. [How to enforce coding style conventions in C#? - Stack Overflow](https://stackoverflow.com/questions/54708748/how-to-enforce-coding-style-conventions-in-c)

4. [Code style options and code cleanup - Visual Studio (Windows)](https://learn.microsoft.com/en-us/visualstudio/ide/code-styles-and-code-cleanup?view=vs-2022)

5. [.NET documentation C# Coding Conventions - C# | Microsoft Learn](https://learn.microsoft.com/en-us/dotnet/csharp/fundamentals/coding-style/coding-conventions)