

Coding Process:

- Coding conventions: naming, formatting, spacing:
 - [Framework Design Guidelines | Microsoft Learn](#)
 - [C# Coding Conventions | Microsoft Learn](#)
 - [Naming Guidelines - Framework Design Guidelines | Microsoft Learn](#)
- Use the Visual Studio editor.
- Static code analysis tools:
 - [Code analyzers for .NET Framework | Microsoft Learn](#)
 - [.NET Analyzers · GitHub](#)
- Comments, XML documentation.
- Cyclomatic complexity, lines of code in a function.
- Debug.Asserts, Trace Logging.
- Unit testing.
- Code coverage. A few options are:
 - Visual Studio in-built code coverage
 - [Use code coverage for unit testing - .NET | Microsoft Learn](#)
 - [FineCodeCoverage/README.md at master · FortuneN/FineCodeCoverage · GitHub](#)
- Performance, Security.
- Code reviewing.

Testing:

- Functionality
- Error
- Performance
- Globalization
- Cost / resources
- Maintenance [lines of code in a function, componentization, cyclomatic complexity]
- Security
- User experience
- Stress / durability / reliability
- Portability
- Localization
- Smoke
- Boundary