

.NET - Any Platform	9.0 2024	ARM64 SVE (128-bit)	Dictionary<T>/HashSet<T>.AlternateLookup	ReadOnlySpan<T> params overloads	CoreCLR	C# 13.0 2024	params collections, New lock type and semantics, New escape sequence - \e, Method group natural type improvements, Implicit indexer access in object initializers, Enable ref locals and unsafe contexts in iterators and async methods, Enable ref struct types to implement interfaces, Allow ref struct types as arguments for type parameters in generics, Partial properties and indexers are now allowed in partial types, Overload resolution priority	.NET - Any Platform				
	8.0 2023	Terminal logger enabled by default	object stack allocation for boxes	BinaryFormatter In-box Throws		C# 12.0 2023	Primary constructors, Collection expressions, Inline arrays, Optional parameters in lambda expressions, ref readonly parameters, Alias any type, Experimental attribute, Interceptors					
	7.0 2022	Aspire		Vector512 AVX-512		TimeProvider ITimer	FrozenDictionary FrozenSet		C# 11.0 2022	File-scoped types, Generic math support, Auto-default structs, Pattern match Span<char> on a constant string, Extended nameof scope, Numeric IntPtr, UTF-8 string literals, Required members, ref fields and scoped ref, Raw string literals, Improved method group conversion to delegate, Warning wave 7, Generic attributes, Newlines in string interpolation expressions, List patterns		
	6.0 2021	MAUI		Improved FileStream		Crossgen2 (AOT)			C# 10.0 2021	Record structs, Improvements of structure types, Interpolated string handlers, global using directives, File-scoped namespace declaration, Extended property patterns, Improvements on lambda expressions, Allow const interpolated strings, Record types can seal ToString(), Improved definite assignment, Allow both assignment and declaration in the same deconstruction, Allow AsyncMethodBuilder attribute on methods, CallerArgumentExpression attribute, Enhanced #line pragma		
	5.0 2020	Single file apps	App trimming			Unified platform	ARM64 for Windows		C# 9.0 2020	Records, Init only setters, Top-level statements, Native sized integers, Function pointers, Suppress emitting localsinit flag, Target-typed new expressions, static anonymous functions, Target-typed conditional expressions, Covariant return types, Extension GetEnumerator support for foreach loops, Lambda discard parameters, Attributes on local functions, Support for code generators, Module initializers, New features for partial methods		
	.NET Core - Cross-platform	Readonly members, Default interface methods, Switch expressions, Property patterns, Tuple patterns, Positional patterns, Using declarations, Static local functions, Disposable ref structs, Nullable reference types, Asynchronous streams, Indices and ranges, Null-coalescing assignment, Unmanaged constructed types, Stackalloc in nested expressions, Enhancement of interpolated verbatim strings				C# 8.0 2019	3.1 2019		Support for C++/CLI	Windows Forms Controls Removal	.NET Core - Cross-platform	
Reassign ref local variables, Initializers on stackalloc arrays, Access fixed fields without pinning, unmanaged generic type constraints				C# 7.3 2018	3.0 2019	Windows Desktop apps (WinForms, WPF)	Hardware intrinsics	Range Index	Blazor			
Declare readonly struct types, Add the in modifier on parameters, Use the ref readonly modifier on method returns, Declare ref struct types, Use additional generic constraints, Non-trailing named arguments, Named arguments can be followed by positional arguments, Leading underscores in numeric literals, private protected access modifier, Conditional ref expressions, Result of a conditional expression (?) can be a reference				C# 7.2 2017	2.2 2018	Runtime diagnostics improvements		ARM32 for Windows				
async Main method, default literal expressions, Inferred tuple element names, Pattern matching on generic type parameters,				C# 7.1 2017	2.1 2018	Span<T>	Tiered JIT	SocketsHttpHandler				
RyuJIT from .NET Core 2.1				ZLib 1.2.11	ARM64	4.8 2019	2.0 2017	RyuJIT x86	ARM32	.NET Standard 2.0		
Improved High DPI				ASP.NET Object Cache		4.7 2017	1.1 2016	Kestrel Web Server	Azure support	>Linux distros		
.NET Framework - Windows	High DPI				HTTP/2	RyuJIT 64-bit	4.6 2015	1.0 2016	Unsafe	ASP.NET Core	Entity Framework Core	.NET Framework - Windows
	Task-Based Async Model		UWP		4.5 2012	C# 7.0 2017	Out variables, Tuples and deconstruction, Pattern matching, Local functions, Expanded expression bodied members, Ref locals and returns, Discards, Binary Literals and Digit Separators, Throw expressions					
	Task Parallel Library		Parallel LINQ		4.0 2010	C# 6.0 2015	Static imports, Exception filters, Auto-property initializers, Expression bodied members, Null propagator, String interpolation, nameof operator, Index initializers, Await in catch/finally blocks, Default values for getter-only properties					
	LINQ	Expression Trees	Entity Framework		3.5 2007	C# 5.0 2012	Asynchronous members Caller info attributes					
	WPF	WCF	WF	CardSpace	3.0 2006	C# 4.0 2010	Dynamic binding, Named/optional arguments, Generic covariant and contravariant, Embedded interop types					
	Generics	ClickOnce	64-bit		2.0 2005	C# 3.0 2007	Auto-implemented properties, Anonymous types, Query expressions, Lambda expressions, Expression trees, Extension methods, Implicitly typed local variables, Partial methods, Object and collection initializers					
	Debugger edit and continue				2.0 2005	C# 2.0 2005	Generics, Partial types, Anonymous methods, Nullable value types, Iterators, Covariance and contravariance, Getter/setter separate accessibility, Method group conversions (delegates), Static classes, Delegate inference					
	.NET Compact Framework		IPv6		1.1 2003	C# 1.2 2003	foreach loop calls Dispose on IEnumerator					
	WinForms	ASP.NET	ADO.NET		1.0 2002	C# 1.0 2002	Classes, Structs, Interfaces, Events, Properties, Delegates, Operators and expressions, Statements, Attributes					
	Base Class Library				1.0 2002	CLR 1.0						