C# 11 cheat sheet

**Raw string literals**

string longMessage = """

This is a long message.

It has several lines.

Some are indented

more than others.

Some should start at the first column.

Some have "quoted text" in them.

""";

**Generic attributes**

public class GenericAttribute<T> : Attribute { }

**List patterns**

int[] numbers = { 1, 2, 3 };

Console.WriteLine(numbers is [1, 2, 3]); // True

Console.WriteLine(numbers is [1, 2, 4]); // False

Console.WriteLine(numbers is [1, 2, 3, 4]); // False

Console.WriteLine(numbers is [0 or 1, <= 2, >= 3]); // True

**File-local types**

file interface IWidget

{

int ProvideAnswer();

}

file class HiddenWidget

{

public int Work() => 42;

}

public class Widget : IWidget

{

public int ProvideAnswer()

{

var worker = new HiddenWidget();

return worker.Work();

}

}

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**Required members**

public class Person

{

public Person() { }

[SetsRequiredMembers]

public Person(string firstName, string lastName) => (FirstName, LastName) = (firstName, lastName);

public required string FirstName { get; init; }

public required string LastName { get; init; }

public int? Age { get; set; }

}