C# 6 cheat sheet

**Static imports**

using static System.Console;

using static System.Math;

WriteLine(Sqrt(3\*3 + 4\*4));

**Exception filters**

try

{

return await new HttpClient().GetStringAsync("https://localHost:10000");

}

catch (HttpRequestException e) when (e.Message.Contains("404"))

{

return "Page Not Found";

}

**Auto-property initializers**

string FirstName { get; set; } = "John Doe";

**Expression bodied members**

static double Add(double x, double y) => x + y;

**Null propagator**

Var country = user?.Phone?.CountryCode;

**String interpolation**

var name = "Mark";

var date = DateTime.Now;

Console.WriteLine($"Hello, {name}! Today is {date.DayOfWeek}, it's {date:HH:mm} now.");

**nameof operator**

void DoSomething(string id)

{

if (id == null)

throw new ArgumentNullException(nameof(id));

}

**Index initializers**

var dict = new Dictionary<int, string>

{

[1] = "One",

[2] = "Two",

};