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",
};
```