

nonocast

Stay Hungry, Stay Foolish.

Enum in C#

🕒 January 30, 2013 📁 2.Work 💡 CSharp, Enum, Tips

我倾向用小对象来代替枚举，但有时候枚举还是非常好用的，学习一下，比如说DayOfWeek的定义，

```
1 public enum DayOfWeek {
2     Sunday = 0,
3     Monday = 1,
4     Tuesday = 2,
5     Wednesday = 3,
6     Thursday = 4,
7     Friday = 5,
8     Saturday = 6,
9 }
```

通过DayOfWeek可以来表明某个日子是星期几，那如果需要表示几天，比如星期一、星期三、星期五或者工作日呢，就需要通过通过bit来实现，改造一下，

```
01 [Flags]
02 public enum Days {
03     None          = 0x00000000,
04     Monday        = 0x00000001,
05     Tuesday       = 0x00000010,
06     Wednesday    = 0x00000100,
07     Thursday     = 0x00001000,
08     Friday       = 0x00010000,
09     Saturday     = 0x00100000,
10     Sunday       = 0x01000000,
11     Workdays    = 0x00011111,
12     All          = 0x01111111,
13 }
```

稍加包装增加构造，

```
01 public class DaysOfWeek {
02     public DaysOfWeek(params Days[] args) {
03         days = Days.None;
04         foreach (Days each in args) {
05             days |= each;
06         }
07     }
08
09     public bool Contains(Days arg) {
10         return days.HasFlag(arg);
11     }
12
13     public override string ToString() {
14         return days.ToString();
15     }
16
17     [JsonConverter(typeof(StringEnumConverter))]
18     public Days days { get; private set; }
19 }
```

JSON.NET也很给力，默认情况下给出int，如果显示声明需要用StringEnumConverter，则会

以'Monday, Tuesday, Wednesday'显示，一个对机器友好，一个对人友好。

参考资料：

- [C# Fundamentals: Combining Enum Values with Bit-Flags](#)
- [c# - Flags enum & bitwise operations vs. “string of bits” - Stack Overflow](#)
- [enum上加\[flag\]attribute与不加有啥区别 - CSDN论坛 - CSDN.NET](#)

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