

# Casting string to enum [duplicate]

Asked 6 years, 8 months ago   Active 2 years, 1 month ago   Viewed 114k times



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This question already has an answer here:

[Convert a string to an enum in C#](#) 22 answers



I'm reading file content and take string at exact location like this



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```
string fileContentMessage = File.ReadAllText(filename).Substring(411, 3);
```

Output will always be either `Ok` or `Err`

On the other side I have `MyObject` which have `ContentEnum` like this

```
public class MyObject
{
    public enum ContentEnum { Ok = 1, Err = 2 };
    public ContentEnum Content { get; set; }
}
```

Now, on the client side I want to use code like this (to cast my string `fileContentMessage` to `Content` property)

```
string fileContentMessage = File.ReadAllText(filename).Substring(411, 3);

MyObject myObj = new MyObject ()
{
    Content = /// ///,
};
```

[c#](#) [string](#) [casting](#) [enums](#)

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Developer

18.5k

61

241

409



user1765862

4,977

18

69

132

marked as duplicate by [Patrick Hofman](#) c# Oct 3 '14 at 13:36

This question has been asked before and already has an answer. If those answers do not fully address your question, please [ask a new question](#).

1 What is your question exactly? – [TimVK](#) Dec 20 '12 at 10:40

Enum.TryParse(string value, out variable); [msdn.microsoft.com/en-us/library/dd783499\(v=vs.100\).aspx](https://msdn.microsoft.com/en-us/library/dd783499(v=vs.100).aspx) – [ryadavilli](#) Dec 20 '12 at 10:42

## 4 Answers



Use [Enum.Parse\(\)](#) .

168



```
var content = (ContentEnum)Enum.Parse(typeof(ContentEnum), fileContentMessage);
```

edited Jul 20 '17 at 12:12

answered Dec 20 '12 at 10:40



CodeCaster

114k

18

162

207

4 Enum.Parse returns an object which needs to be casted. I felt free to edit :) – [Matthias Meid](#) Dec 20 '12 at 10:42

Perfect, a one-line solution. Thanks! This saves me from writing another method to handle it. – [John Suit](#) Nov 11 '14 at 15:20

1 I tried with Parity Enum and when I give the string value of 123 it returns it without issue, even though Parity enum does not include 123 value of enum – [John Demetriou](#) Aug 7 '17 at 8:31

@JohnDemetriou that's documented: "If value is the string representation of an integer that does not represent an underlying value of the enumType enumeration, the method returns an enumeration member whose underlying value is value converted to an integral type. If this behavior is undesirable, call the IsDefined method to ensure that a particular string representation of an integer is actually a member of enumType". – [CodeCaster](#) Aug 7 '17 at 8:52

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As an extra, you can take the `Enum.Parse` answers already provided and put them in an easy-to-use static method in a helper class.

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```
public static T ParseEnum<T>(string value)
{
    return (T)Enum.Parse(typeof(T), value, ignoreCase: true);
}
```

And use it like so:

```
{
    Content = ParseEnum<ContentEnum>(fileContentMessage);
};
```

Especially helpful if you have lots of (different) Enums to parse.

answered Dec 20 '12 at 10:47



pleinoliif

648 10 28

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Thanks for the ignoreCase: true tidbit! – Colin Jan 24 '17 at 0:31

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.NET 4.0+ has a generic [Enum.TryParse](#)

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```
ContentEnum content;
Enum.TryParse(fileContentMessage, out content);
```

answered Dec 20 '12 at 11:00



Chris Fulstow

32.2k 7 77 104

Have a look at using something like

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Converts the string representation of the name or numeric value of one or more enumerated constants to an equivalent enumerated object. A parameter specifies whether the operation is case-sensitive. The return value indicates whether the conversion succeeded.

or

[Enum.Parse](#)

Converts the string representation of the name or numeric value of one or more enumerated constants to an equivalent enumerated object.

answered Dec 20 '12 at 10:41



[Adriaan Stander](#)

**137k** 25 249 264

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