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Get url parameters from a string in .NET

Ask Question



I've got a string in .NET which is actually a url. I want an easy way to get the value from a particular parameter.

204

Normally, I'd just use Request.Params["theThingIWant"], but this string isn't from the request. I can create a new Uri item like so:



Uri myUri = new Uri(TheStringUrlIWantMyValueFrom);

38

I can use <code>myUri.Query</code> to get the query string...but then I apparently have to find some regexy way of splitting it up.

Am I missing something obvious, or is there no built in way to do this short of creating a regex of some kind, etc?







asked Mar 18 '09 at 20:05



12 Answers



Use static ParseQueryString method of System.Web.HttpUtility class that returns NameValueCollection.

430



Uri myUri = new Uri("http://www.example.com?param1=good¶m2=bad")
string param1 = HttpUtility.ParseQueryString(myUri.Query).Get("param



Check documentation at http://msdn.microsoft.com/en-us/library/ms150046.aspx

edited Mar 2 '15 at 19:10



Matt Bishop

920 5 18

answered Mar 18 '09 at 20:19



CZFox

6,632 3 21 12

13 This doesn't seem to detect the first parameter. eg parsing "google.com/ ..." doesn't detect the parameter q – Andrew Shepherd Jun 30 '09 at 4:26

@Andrew I confirm. It's strange (bug?). You coul still use HttpUtility.ParseQueryString(myUri.Query).Get(0) though and it will extract first parameter. `— Mariusz Pawelski Aug 2 '11 at 15:03

- 13 Doesn't work with a relative url... Stefan Steiger Dec 21 '12 at 1:46
- 1 You can't parse full query URLs with HttpUtility.ParseQueryString(string)! As it's name says, it's to parse Query Strings, not URLs with query parameters. If you want to do it, you must first split it by? like this: Url.Split('?') and get last element using (depending on situation and what you need) [0] or LINQ's Last() / LastOrDefault().—Kosiek Jan 16'18 at 11:50 https://www.needuc.com/characterists/
- 1 When trialling this myself, the signature appears to have changed to this: HttpUtility.ParseQueryString(uri.Query).GetValues("param1").First() – The Senator Feb 21 '18 at 18:48

This is actually very simple, and that worked for me:)

longurl = uriBuilder.ToString();

0

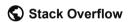
```
if (id == "DK")
    string longurl = "selectServer.aspx?country=";
    var uriBuilder = new UriBuilder(longurl);
    var query = HttpUtility.ParseQueryString(uriBuilder.Query
    query["country"] = "DK";
    uriBuilder.Query = query.ToString();
```

answered Feb 28 at 15:19



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Use .NET Reflector to view the FillFromString method of System.Web.HttpValueCollection . That gives you the code that ASP.NET is using to fill the Request. QueryString collection.

edited Nov 1 '16 at 17:33



SharpC **3,480** 2 25 30

answered Mar 18 '09 at 20:20



3 55 73

@Andrew and @CZFox



I had the same bug and found the cause to be that parameter one is in fact: http://www.example.com?param1 and not param1 which is what one would expect.

By removing all characters before and including the question mark fixes this problem. So in essence the HttpUtility.ParseQueryString function only requires a valid query string parameter containing only characters after the question mark as in:

```
HttpUtility.ParseQueryString ( "param1=good&param2=bad" )
```

My workaround:

```
string RawUrl = "http://www.example.com?param1=good&param2=bad";
int index = RawUrl.IndexOf ( "?" );
if ( index > 0 )
    RawUrl = RawUrl.Substring ( index ).Remove ( 0, 1 );

Uri myUri = new Uri( RawUrl, UriKind.RelativeOrAbsolute);
string param1 = HttpUtility.ParseQueryString( myUri.Query ).Get( "params of the params of the param
```

edited Nov 1 '16 at 17:31



answered Sep 27 '11 at 17:14



When the URI is instantiated I get the error "Invalid URI: The format of the URI could not be determined." I don't think this solution works as intended. – Paul Matthews Nov 11 '13 at 23:17

@PaulMatthews, you are correct. At the time of this given solution, I was using the older .net framework 2.0. To confirm, your statement, I copied and pasted this solution into LINQPad v2 by Joseph Albahara and received the same error you mentioned. – Mo Gauvin Nov 12 '13 at 22:18

@PaulMatthews, To fix, remove the line that reads Uri myUri = new Uri(

RawUrl); and merely pass RawUrl to the last statement as in: string param1 = HttpUtility.ParseQueryString(RawUrl).Get("param2"); – Mo Gauvin Nov 12 '13 at 22:25

Yes it works if you do it that way :) - Paul Matthews Nov 12 '13 at 23:00



Looks like you should loop over the values of <code>myUri.Query</code> and parse it from there.

11



```
string desiredValue;
foreach(string item in myUri.Query.Split('&'))
{
    string[] parts = item.Replace('?', '').Split('=');
    if(parts[0] == "desiredKey")
    {
        desiredValue = parts[1];
        break;
    }
}
```

I wouldn't use this code without testing it on a bunch of malformed URLs however. It might break on some/all of these:

- hello.html?
- hello.html?valuelesskey
- hello.html?key=value=hi
- hello.html?hi=value?&b=c
- etc

edited Nov 1 '16 at 17:30



answered Mar 18 '09 at 20:11

Tom Ritter





Here's another alternative if, for any reason, you can't or don't want to use HttpUtility.ParseQueryString().

26

This is built to be somewhat tolerant to "malformed" query strings, i.e. http://test/test.html?empty= becomes a parameter with an empty value. The caller can verify the parameters if needed.

```
public static class UriHelper
    public static Dictionary<string, string> DecodeQueryParameters(t|
       if (uri == null)
            throw new ArgumentNullException("uri");
       if (uri.Query.Length == 0)
            return new Dictionary<string, string>();
        return uri.Query.TrimStart('?')
                        .Split(new[] { '&', ';' },
StringSplitOptions.RemoveEmptyEntries)
                        .Select(parameter => parameter.Split(new[] {
StringSplitOptions.RemoveEmptyEntries))
                        .GroupBy(parts => parts[0],
                                 parts => parts.Length > 2 ? string.
parts.Length - 1) : (parts.Length > 1 ? parts[1] : ""))
                        .ToDictionary(grouping => grouping.Key,
                                      grouping => string.Join(",", g
```

Test

```
[TestClass]
public class UriHelperTest
{
     [TestMethod]
     public void DecodeQueryParameters()
```

```
DecodeQuervParametersTest("http://test/test.html", new Diction
string>());
                                   DecodeOuervParametersTest("http://test/test.html?", new Dict:
string>());
                                    DecodeQueryParametersTest("http://test/test.html?key=bla/blul
DecodeOuervParametersTest("http://test/test.html?eins=1&zwei:
Dictionary<string, string> { "eins", "1" }, { "zwei", "2" } });
                                  DecodeQueryParametersTest("http://test/test.html?empty", new
string> { "empty", "" } });
                                  DecodeQueryParametersTest("http://test/test.html?empty=", new
string> { { "empty", "" } });
                                   DecodeOuervParametersTest("http://test/test.html?key=1&", new
string> { { "key", "1" } });
                                   DecodeOuervParametersTest("http://test/test.html?key=value?&l
Dictionary<string, string> { "key", "value?" }, { "b", "c" } });
                                   DecodeQueryParametersTest("http://test/test.html?key=value=wl
DecodeQueryParametersTest("http://www.google.com/search?
q=energy+edge&rls=com.microsoft:en-au&ie=UTF-8&oe=UTF-8&startIndex=&:
                                                     new Dictionary<string, string>
                                                                             "q", "energy+edge" },
                                                                       { "rls", "com.microsoft:en-au" },
                                                                       { "ie", "UTF-8" },
                                                                       { "oe", "UTF-8" },
                                                                        { "startIndex", "" },
                                                                       { "startPage", "1%22" },
                                                    });
                                  DecodeQueryParametersTest("http://test/test.html?key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;key=value;ke
new Dictionary<string, string> { { "key", "value,anotherValue" } });
                 }
                 private static void DecodeQueryParametersTest(string uri, Diction)
expected)
                                  Dictionary<string, string> parameters = new Uri(uri).DecodeO
                                  Assert.AreEqual(expected.Count, parameters.Count, "Wrong parameters.Count,"
{0}", uri);
                                  foreach (var key in expected.Keys)
                                                     Assert.IsTrue(parameters.ContainsKey(key), "Missing parameters.ContainsKey(key), "Missing parameters.Contain
{1}", key, uri);
                                                     Assert.AreEqual(expected[key], parameters[key], "Wrong parameters[key], "Wro
{0}. Uri: {1}", parameters[key], uri);
```

```
}
}
```

edited Oct 10 '16 at 10:23

answered Nov 22 '13 at 0:56





I used it and it run perfectly

-2

<%=Request.QueryString["id"] %>



answered May 17 '16 at 14:29



1 from a string not query string – Arun Prasad E S Jul 9 '16 at 5:38



Or if you don't know the URL (so as to avoid hardcoding, use the AbsoluteUri

1

Example ...



```
//get the full URL
Uri myUri = new Uri(Request.Url.AbsoluteUri);
//get any parameters
string strStatus = HttpUtility.ParseQueryString(myUri.Query)
```

```
string strMsg = HttpUtility.ParseQueryString(myUri.Query).Ge
switch (strStatus.ToUpper())
    case "OK":
        webMessageBox.Show("EMAILS SENT!");
        break;
    case "ER":
        webMessageBox.Show("EMAILS SENT, BUT ... " + strMsg)
        break;
```

answered Dec 1 '15 at 3:58



Fandango68

2,086 2 20 38



HttpContext.Current.Request.QueryString.Get("id");





answered Jan 6 '15 at 11:43



Hallgeir Engen

how to use this with a string - Arun Prasad E S Jul 9 '16 at 5:37



if you want in get your QueryString on Default page .Default page means your current page url . you can try this code :





string paramIl = HttpUtility.ParseQueryString(this.ClientQueryString

answered Dec 6 '13 at 11:27

Erhan Demirci



3,178 3 29 40



You can use the following workaround for it to work with the first parameter too:



```
var param1 =
   HttpUtility.ParseQueryString(url.Substring(
       new []{0, url.IndexOf('?')}.Max()
   )).Get("param1");
```

answered Jun 15 '12 at 12:40



tomsv

4,949 4 42 78



This is probably what you want

```
var uri = new Uri("http://domain.test/Default.aspx?var1=true&var2=tes
var query = HttpUtility.ParseQueryString(uri.Query);
var var2 = query.Get("var2");
```



answered Mar 18 '09 at 20:27



Sergej Andrejev

5,637 10 56 102

This worked out great to catch the first parameter – Daniel S Jan 17 at 8:22