

Trouble encoding a u umlaut with in a .Net http handler

Asked 16 years ago Modified 9 years, 2 months ago Viewed 5k times



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I have a JavaScript request going to a ASP.Net (2.0) HTTP handler which passes the request to a java web service. In this system special characters, such as those with an accent do not get passed on correctly.

E.G.

- Human input: Düsseldorf
- becomes a JavaScript asynch request to `http://site/serviceproxy.ashx?q=D%FCsseldorf`, which is valid in ISO-8859-1 as well as in UTF-8 as far as I can tell. (unless it's `%c3%bc` in UTF-8)
- `HttpContext.Current.Request.QueryString.Get("q")` returns `D sseldorf` which is where trouble begins.
- but `HttpUtility.UrlEncode(HttpContext.Current.Request.QueryString.Get("q"), Encoding.GetEncoding("ISO-8859-1"))` returns `D%3fsseldorf` (a '?')
- and `HttpUtility.UrlEncode(HttpContext.Current.Request.QueryString.Get("q"), Encoding.UTF8)` returns `D%ef%bfsseldorf`

So it the value doesn't get decoded nor re-encoded correctly to be passed on to the java service.

- Notice `HttpContext.Current.Request.Url.Query` is `?q=D%FCsseldorf&output=json&from=1&to=10`
- while `HttpContext.Current.Request.QueryString.ToString()` is `q=D%ufffdsseldorf&output=json&from=1&to=10`

Why is this, and how can I tell the `HttpContext` to honor the request headers which include:

```
Content-Type=application/x-www-form-urlencoded;+charset=UTF-8
```

and decode the URL's `queryString` using the UTF-8 charset.

Addendum: As the answer notes, the trouble lies not so much in the decoding as the encoding; using `escape()` in JavaScript does not escape according to UTF-8, while

using `encodeURIComponent()` does.

asp.net

javascript

character-encoding

diacritics

encodeURIComponent

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edited Oct 15, 2015 at 12:23



marc_s

753k 183 1.4k 1.5k

asked Nov 25, 2008 at 22:26



dlamblin

45.3k 22 104 144

2 Answers

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I don't know what the default character encoding used by your server (IIS?) is, or if it can be changed, but I can tell you a few things that might help.

0xFC is the ISO-8859-1 encoding for ü. While the Unicode code point is U+00FC, when encoded with UTF-8, this requires two bytes, and becomes 0xC3 0xBC.

If a UTF-8 decoder were to see the illegal byte sequence 0xFC, it would decode it as a Unicode "replacement character", U+FFFD, and pick up where it saw the beginning of another valid byte sequence, in this case 's'.

The reason you get `%3f` is that '?' is the "replacement character" for the Latin character set, similar to `�` in the Unicode character set.

I believe what you're seeing is the client encoding with ISO-8859-1, but the server is decoding with UTF-8. As soon as it hits the server, your data is corrupted. I recommend that you modify the client to use UTF-8 encoding; it should be requesting `http://site/serviceproxy.ashx?q=D%C3%BCsseldorf`

It sounds like you are constructing these URLs from JavaScript, so you should use the `encodeURIComponent` and `encodeURIComponent` functions, not `escape`.

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edited Nov 26, 2008 at 1:06

answered Nov 26, 2008 at 1:00



erickson

269k 59 401 497

And here I was looking for a way to tell `escape()` I wanted to use UTF-8. I didn't think to look at `encodeURIComponent()`. Also I misunderstood UTF-8 and thought `%FC` might be valid for both. — [dlamblin](#) Nov 26, 2008 at 16:43



I am getting the same problem with an ASP.NET generic handler when the URL is typed directly into IE8. Characters are being sent through as char 65533, and yet I do

1 have IE8 set to



[x] Send UTF-8 URLs.



In my scenario, I'm debugging an HTTP handler in Visual Studio and typing the address of the handler directly into the browser:

```
http://localhost/myHandler.ashx?term=xxxxxx
```

and then stepping through the code. The client will be passing UTF-8 encoded URLs, but is there a way to debug the code when IE8 running on the development machine is the client?

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answered Jan 21, 2010 at 19:59



Tim

23 ● 4