

URLEncoder And URLDecoder

- description : URLEncoder And URLDecoder
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Percent-encoding

URL 가 8bit
 URL . %
 ASCII 16
 : , / , ? , # , [,] , @ , ! , \$, & , ' , (,) , * , + , , , ; , = , %
 가

No	Character	Encoding	No	Character	Encoding	No	Character	Encoding	No	Character	Encoding
1	:	%3A	6	]	%5D	11	'	%27	16	,	%2C
2	/	%2F	7	@	%40	12	(	%28	17	;	%3B
3	?	%3F	8	!	%21	13	)	%29	18	=	%3D
4	#	%23	9	\$	%24	14	*	%2A	19	%	%25
5	[	%5B	10	&	%26	15	+	%2B	20	' '	%20 or +

' ' +(application/x-www-form-urlencoded
) URL %20

Class URLEncoder

HTML form . String application/x-www-form-
 urlencoded MIME 가 . HTML
 HTML

- "a" ~ "z", "A" ~ "Z" "0" ~ "9"
- ".", "-", "*", "_"

• “ ” + “ ”
• “ ”
16 “ ” UTF-8 “ ” xy “ ” 2
“The+string+%C3%BC%40foo-bar” UTF-8 “The string ü@foo-bar”
BC(16) , @ 1 40(16) ü 2 C3(16)

Class URLDecoder

HTML form application/x-www-form-urlencoded
MIME 가

URLEncoder
“a” ~ “z”, “A” ~ “Z”, “0” ~ “9” “ - ”, “ _ ”, “ . ”, “ * ”
“ % ”

- “a” ~ “z”, “A” ~ “Z” “ 0 ” ~ “ 9 ”
- “ . ”, “ - ”, “ * ” “ _ ”
- “ + ” “ ”
- “%xy” xy가 8 16

가

가 가 가
IllegalArgumentException throw 가

Example 1

```
package com.ocean.escapehtml;

import java.io.UnsupportedEncodingException;
import java.net.URLDecoder;
import java.net.URLEncoder;

public class PercentEncode {
```

```
//      %EB%8F%8C%EC%B2%B4+%EB%B9%84%ED%83%80

public static void main(String[] args) throws
UnsupportedEncodingException {

    String encodedText = "      ";
    encodedText = URLEncoder.encode(encodedText,
"UTF-8").replaceAll("\\\\+", "%20");
    System.out.println("encodedText :: " + encodedText);
    // encodedText :: %EB%8F%8C%EC%B2%B4%20%EB%B9%84%ED%83%80

    String decodedText = encodedText;
    decodedText = URLDecoder.decode(decodedText, "UTF-8");
    System.out.println("decodedText :: " + decodedText);
    // decodedText ::

}
}
```

Example 2

```
package com.ocean.escapehtml;

import java.io.UnsupportedEncodingException;
import java.net.MalformedURLException;
import java.net.URL;
import java.net.URLEncoder;

public class URLEncoderExample {

    public static void main(String[] args) throws MalformedURLException,
UnsupportedEncodingException {
        // base URL
        String baseUrl = "https://www.javaguides.net/search?q=";

        // String to be encoded
        String query = "core+java+tutorial";

        URL url = new URL(baseUrl + query);
        System.out.println("URL without encoding : " + url);
        // URL without encoding :
https://www.javaguides.net/search?q=core+java+tutorial

        // encode() method
        url = new URL(baseUrl + URLEncoder.encode(query, "UTF-8"));
        System.out.println("URL after encoding : " + url);
        // URL after encoding :
https://www.javaguides.net/search?q=core%2Bjava%2Btutorial
}
```

```
}  
}
```

Example 3

```
package com.ocean.escapehtml;  
  
import java.io.UnsupportedEncodingException;  
import java.net.MalformedURLException;  
import java.net.URL;  
import java.net.URLDecoder;  
import java.net.URLEncoder;  
  
public class URLDecoderExample {  
  
    public static void main(String[] args) throws MalformedURLException,  
UnsupportedEncodingException {  
        // base URL  
        String baseUrl = "https://www.javaguides.net/search?q=";  
  
        // String to be encoded  
        String query = "core+java+tutorial";  
  
        URL url = new URL(baseUrl + query);  
        System.out.println("(1) Original URL: " + url);  
        // (1) Original URL:  
https://www.javaguides.net/search?q=core+java+tutorial  
  
        String encodedStr = URLEncoder.encode(query, "UTF-8");  
        url = new URL(baseUrl + encodedStr);  
        System.out.println("(2) Encoded URL : " + url);  
        // (2) Encoded URL :  
https://www.javaguides.net/search?q=core%2Bjava%2Btutorial  
  
        // decode() method  
        String decodedStr = URLDecoder.decode(encodedStr, "UTF-8");  
        System.out.println("(3) Decoded URL : " + baseUrl + decodedStr);  
        // (3) Decoded URL :  
https://www.javaguides.net/search?q=core+java+tutorial  
    }  
}
```

Ref Site

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[URLEncoder](#), [encode](#), [URLDecoder](#), [decode](#), [PercentEncoding](#)

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