

# URLEncoder And URLDecoder

- description : URLEncoder And URLDecoder
- author :
- email : shlim@repia.com
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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"
- ".", "-", "\*", "\_"

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

# Class URLDecoder

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

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

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

가

가 IllegalArgumentExcpion throw 가 가 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

[Percent-encoding](#)

[Class URLEncoder](#)

[Class URLDecoder](#)

[URLEncoder Class Overview](#)

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

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