

**HTTP cookie** ..... 3

**HTTP** ..... 3

    ..... 3

      ..... 4

        ..... 5

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  RFC 6265, RFC 2109 ..... 8

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      7.0 ..... 11

      8.0 ~ 8.5 ..... 11

        ..... 12

        ..... 16

Last update: http\_cookie  
2020/11/27 - - https://atl.kr/dokuwiki/doku.php/http\_cookie%EC%99%80\_%ED%86%B0%EC%BA%A3\_%EB%B2%84%EC%A0%84%EB%B3%84\_%EC%9D%B4%EC%8A%88  
11:36 -

---

# HTTP cookie

: <https://meetup.toast.com/posts/172>

## HTTP

- HTTP 가
- 

( )

- 
- UID( ) 가 . 12 ( DB .)
- UID가

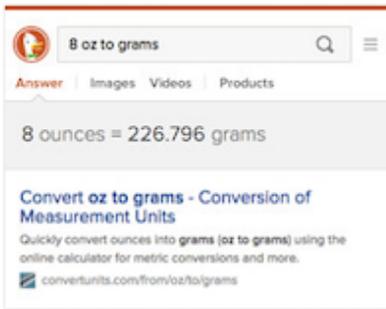
Name	Value	Domain	Path	Expires / Max-Age
JSESSIONID	564BEEA6D70D6851...	local-id.hangame.com	/	1969-12-31T23:59:59.000Z
LUT	W	.hangame.com	/	1969-12-31T23:59:59.000Z

Name	Value	Domain	Path	Expires / Max-Age
BID	B7OMN72YM6GFO38...	.hangame.com	/	2050-01-01T09:00:00.784Z
CAT	Y+1	.hangame.com	/	2018-11-21T00:37:34.514Z
HG_CP_LOGIN	"iNto0EJ2sxsKxoaitVu...	.hangame.com	/	1969-12-31T23:59:59.000Z
HG_JS	Y%5E27%5EM%5E%...	.hangame.com	/	1969-12-31T23:59:59.000Z
HG_LOGIN	c5U4eWNQ9GjS_ouY...	.hangame.com	/	1969-12-31T23:59:59.000Z
HG_SP_LOGIN	"gYjFhmcAjqskoVTxfv...	.hangame.com	/	1969-12-31T23:59:59.000Z
LUT	W	.hangame.com	/	1969-12-31T23:59:59.000Z
NNB	LAS2L56ODPGVW	.hangame.com	/	2050-01-01T09:00:00.784Z
hgDomain	hangame	.hangame.com	/	1969-12-31T23:59:59.000Z
login	A08B6B53561B5A%2...	.hangame.com	/	1969-12-31T23:59:59.000Z

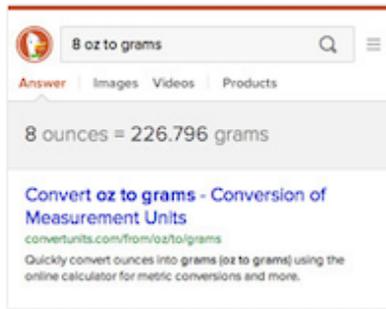
( , )

- 
- 가, duckduckgo

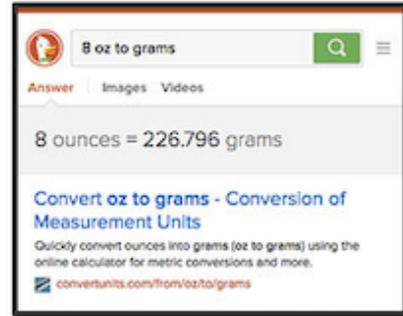
테마



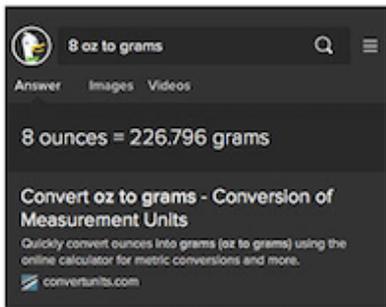
기본값



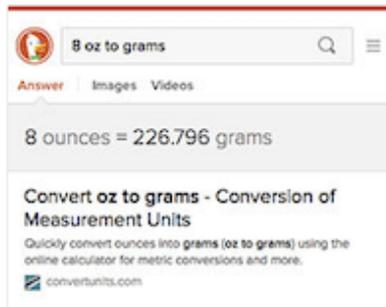
기본



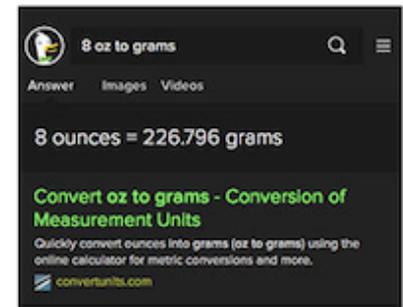
✓ 색상 대비



어둠



회색



터미널

ents Console Sources Network Performance Memory Application Security Audits					
kers					
Name	Value	Domain	Path	Expires / Max-Age	
ae	c	duckduckgo.com	/	2025-01-11T15:00:00.000Z	

( )

- 가 가 가
- 가 ,

가 .

```
GET /test HTTP/1.1
Host: localhost:8080
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_14_0)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/70.0.3538.102 Safari/537.36
DNT: 1
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,
```

```

*/*;q=0.8
Accept-Encoding: gzip, deflate, br
Accept-Language: ko,en-US;q=0.9,en;q=0.8

```

### Set-Cookie

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Set-Cookie: CookieName1=Example1; Expires=Tue, 27-Nov-2018 02:53:13 GMT
Set-Cookie: CookieName2=Example2; Expires=Tue, 27-Nov-2018 02:53:13 GMT
Set-Cookie: JSESSIONID=8EB8434C5776358C84017077E11A3300; Path=/
Content-Type: text/html;charset=ISO-8859-1
Content-Language: ko
Content-Length: 316

```

- Set-Cookie 가
- name : value 가

### 가 Set-Cookie 가

Name	Value	Domain	Path	Expires / Max-Age
CookieName1	Example1	localhost	/	2018-11-27T02:57:08.663Z
CookieName2	Example2	localhost	/	2018-11-27T02:57:08.663Z
JSESSIONID	8EB8434C5776358C84017077E11A3300	localhost	/	1969-12-31T23:59:59.000Z

가 가

```

GET /test HTTP/1.1
Host: localhost:8080
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_14_0)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/70.0.3538.102 Safari/537.36
DNT: 1
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,
*/*;q=0.8
Accept-Encoding: gzip, deflate, br
Accept-Language: ko,en-US;q=0.9,en;q=0.8
Cookie: JSESSIONID=8EB8434C5776358C84017077E11A3300; CookieName1=Example1;
CookieName2=Example2

```

## Domain

- Domain 가 .
- - EX) hangame.com payco.com 가 .
- Domain 가 .
- Domain 가 .
  - hangame.com Domain
    - hangame.com 가 .
  - hangame.com Domain hangame.com
    - accounts.hangame.com .

## Path

- Domain 가 .
- Path가 Path가 .
- Path Set-Cookie .

## Expires / Max-Age

- Expire Max-Age .
- Expire 가 .
- Max-Age 가 .

## Secure

- Secure .
- 가 .

## HttpOnly

- HttpOnly HTTP .
- HttpOnly가 API .

- 가 .
- Expires Max-Age 가 가 .
- Expires Max-Age 가 .
  - 가 .

- (HTTPS)
- secure 가 HTTPS

### Http-only

- API XSS
- cross-site tracing (XST) cross-site request forgery (XSRF)
- HttpOnly 가

### Same-site

- 51
- 

### third-party

- 가
- 가

- , HTML5 , 가 가

0, 1

- 0 Netscape 1 RFC 2109
- RFC 2109 Netscape .3
- - Netscape Name, Value, Expires, Domain, Path, Secure, 가
  - RFC 2109 Name, Value, Comment, Domain, Max-Age, Path, Secure, Version
- - Netscape 가 Expires
  - RFC 2109 delta-seconds
  - Netscape
  - Netscape ; , ' ' RFC 2109 가

- Netscape - " , RFC 2109
- Netscape = = , RFC 2109

## RFC 6265, RFC 2109

- RFC 2109 , RFC 6265
- RFC 6265가 RFC 2109 RFC 2965 .4
- Set-Cookie
- RFC 2109 Name, Value, Comment, Domain, Max-Age, Path, Secure, Version
- RFC 6265 Name, Value, Expires, Domain, Max-Age, Path, Secure, HttpOnly가
- Comment 가 , Version 가
- Expires Date 가 가 , HttpOnly HTTP  
( 가 API )
- RFC 2109 가 300 , 4096 ,  
20

\* at least 300 cookies

\* at least 4096 bytes per cookie (as measured by the size of the characters that comprise the cookie non-terminal in the syntax description of the Set-Cookie header)

\* at least 20 cookies per unique host or domain name

- RFC 6265 가 3000 , 4096 ,  
50 가

o At least 4096 bytes per cookie (as measured by the sum of the length of the cookie's name, value, and attributes).

o At least 50 cookies per domain.

o At least 3000 cookies total.

- RFC 6265 "" 가
- RFC 6265 가 Set-Cookie
- javax.servlet.http.Cookie
- 6265



\* This class supports both the RFC 2109 and the RFC 6265 specifications. \* By default, cookies are created using RFC



- setVersion netscape, 2109 가 .

```
/**
 * Sets the version of the cookie protocol this cookie complies with.
 * Version 0 complies with the original Netscape cookie specification.
 * Version 1 complies with RFC 2109.
 * <p>
 * Since RFC 2109 is still somewhat new, consider version 1 as experimental;
 * do not use it yet on production sites.
 *
 * @param v
 *         0 if the cookie should comply with the original Netscape
 *         specification; 1 if the cookie should comply with RFC 2109
 * @see #getVersion
 */
public void setVersion(int v) {
    version = v;
}
```

- default 가 0 (netscape)가 가 .
- RFC 6265 Expires가 maxAge .

```
private final String name;
private String value;

private int version = 0; // ;Version=1 ... means RFC 2109 style

//
// Attributes encoded in the header's cookie fields.
//
private String comment; // ;Comment=VALUE ... describes cookie's use
private String domain; // ;Domain=VALUE ... domain that sees cookie
private int maxAge = -1; // ;Max-Age=VALUE ... cookies auto-expire
private String path; // ;Path=VALUE ... URLs that see the cookie
private boolean secure; // ;Secure ... e.g. use SSL
private boolean httpOnly; // Not in cookie specs, but supported by browsers
```

- maxAge Expires가 .

▼ Permanent Cookies	
▼ rfc6265	6265
Expires	Mon, 22-Oct-2018 00:21:45 GMT
Max Age	100
Domain	hangame.com

## 6.0~8.5

### 6.0

#### 6.0

#### DIGEST 6.0.x Manager App WWW-Authenticate

- [https://bz.apache.org/bugzilla/show\\_bug.cgi?id=52983](https://bz.apache.org/bugzilla/show_bug.cgi?id=52983)

- - 401

```
HTTP/1.1 401 Unauthorized
Pragma: No-cache
Cache-Control: no-cache
Expires: Thu, 01 Jan 1970 10:00:00 EST
WWW-Authenticate: Basic realm="Tomcat Manager Application"
Set-Cookie: JSESSIONID=****removed****; Path=/manager
WWW-AuthenticateREDUNDANT: Basic realm="Tomcat Manager Application"
Content-Type: text/html
Transfer-Encoding: chunked
Vary: Accept-Encoding
Date: Mon, 26 Mar 2012 03:39:09 GMT
Server: Coyote
```

- - 6.0.36
    - 401.jsp ( )
    - 가 가
- ""

- [https://bz.apache.org/bugzilla/show\\_bug.cgi?id=57896](https://bz.apache.org/bugzilla/show_bug.cgi?id=57896)

- -

```
Name: foo
Value: bar "baz"
```

- 

```
Actual value:
[Cookie received: foo="bar "baz\""]
Expected value:
[Cookie received: foo="bar \"baz\""]
```

-

- 6.0.45

## 7.0

### 7.0

#### JSESSIONID가

- [https://bz.apache.org/bugzilla/show\\_bug.cgi?id=60854](https://bz.apache.org/bugzilla/show_bug.cgi?id=60854)

•

- 가
- JSESSIONID 가
- 가 2 JSESSIONID 가
- alwaysUseSession="true" . ( 가 가 )

#### ClusterSingleSignOn valve SingleSignOnEntry 가

- [https://bz.apache.org/bugzilla/show\\_bug.cgi?id=57338](https://bz.apache.org/bugzilla/show_bug.cgi?id=57338)

•

- 7.0.62

## 8.0 ~ 8.5

### 8.0 ~ 8.5

#### Domain 가

•

- domain
  - [java.lang.IllegalArgumentException](#): An invalid domain [.hangame.com] was specified for this cookie  
at org.apache.tomcat.util.http.Rfc6265CookieProcessor.validateDomain([Rfc6265CookieProcessor.java:203](#))  
at org.apache.tomcat.util.http.Rfc6265CookieProcessor.generateHeader([Rfc6265CookieProcessor.java:145](#))

•

- Domain
- LegacyCookieProcessor context.xml

#### Request.parseCookies() NullPointerException

- [https://bz.apache.org/bugzilla/show\\_bug.cgi?id=58578](https://bz.apache.org/bugzilla/show_bug.cgi?id=58578)

•

- 8.0.29

## Rfc6265CookieProcessor

가

- [https://bz.apache.org/bugzilla/show\\_bug.cgi?id=58445](https://bz.apache.org/bugzilla/show_bug.cgi?id=58445)
- - 8.0.27

가

## Rfc6265CookieProcessor가

- [https://bz.apache.org/bugzilla/show\\_bug.cgi?id=60627](https://bz.apache.org/bugzilla/show_bug.cgi?id=60627)
- - 8.5.12
  - version 0 RFC6265

## Set-Cookie 가 RFC

- [https://bz.apache.org/bugzilla/show\\_bug.cgi?id=60876](https://bz.apache.org/bugzilla/show_bug.cgi?id=60876)
- - 8.5.13

가

# HTTP Status 500 - Request processing failed; nested exception is java.lang.IllegalArgument cookie value or attribute.

**type** Exception report

**message** Request processing failed; nested exception is java.lang.IllegalArgumentException: Control character in cookie value or attribute.

**description** The server encountered an internal error that prevented it from fulfilling this request.

**exception**

```
org.springframework.web.util.NestedServletException: Request processing failed; nested exception is java.lang.IllegalArgument  
org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:894)  
org.springframework.web.servlet.FrameworkServlet.doGet(FrameworkServlet.java:778)  
javax.servlet.http.HttpServlet.service(HttpServlet.java:618)  
javax.servlet.http.HttpServlet.service(HttpServlet.java:725)  
org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:52)
```

**root cause**

```
java.lang.IllegalArgumentException: Control character in cookie value or attribute.  
org.apache.tomcat.util.http.LegacyCookieProcessor.needsQuotes(LegacyCookieProcessor.java:431)  
org.apache.tomcat.util.http.LegacyCookieProcessor.generateHeader(LegacyCookieProcessor.java:303)
```

- - URLEncoder.encode

CookieController - Name : CookieName1 Value : %C7%D1%B1%DB%85%D7%BD%BA%86%AE1	HTTP/1.1 200 OK
CookieController - Name : CookieName2 Value : %22%C7%D1%B1%DB%85%D7%BD%BA%86%AE2%22	Server: Apache-Coyote/1.1
CookieController - Name : %C7%D1%B1%DB%85%D7%BD%BA%86%AE3 Value : Value3	Set-Cookie: CookieName1=%C7%D1%B1%DB%85%D7%BD%BA%86%AE1
CookieController - Name : CookieName4 Value : !@#\$	Set-Cookie: CookieName2=%22%C7%D1%B1%DB%85%D7%BD%BA%86%AE2%22
CookieController - Name : JSESSIONID Value : EC15422CDCB16E4A7B15776C44ED6841	Set-Cookie: %C7%D1%B1%DB%85%D7%BD%BA%86%AE3=Value3
CookieController -	Content-Type: text/html

- Tomcat 8.5

```

CookieController - -----
CookieController - Name : CookieName1 Value : 한글테스트1
CookieController - Name : CookieName2 Value : 한글테스트2
CookieController - Name : %ED%95%9C%EA%B8%80%ED%85%8C%EC%8A%A4%ED%8A%B83 Value : Value3
CookieController - Name : JSESSIONID Value : EA7DD1577F4C3FACD984DC3402C9E21
CookieController - -----
HTTP/1.1 200
Set-Cookie: CookieName1=한글테스트1
Set-Cookie: CookieName2="한글테스트2"
Set-Cookie: %ED%95%9C%EA%B8%80%ED%85%8C%EC%8A%A4%ED%8A%B83=Value3
Content-Type: text/html;charset=ISO-8859-1

```

=가 = 가

```

CookieController - -----
CookieController - Name : CookieName1 Value : Before
CookieController - Name : CookieName2 Value : Before
CookieController - Name : JSESSIONID Value : 395EBD87DEB6B5A44E67DB1943D88E15
CookieController - -----
Accept-Encoding: gzip, deflate, br
Accept-Language: ko,en-US;q=0.9,en;q=0.8
Cookie: CookieName1=Before=After; CookieName2=Before==After; CookieName3=====
==; JSESSIONID=395EBD87DEB6B5A44E67DB1943D88E15

```

- =가 " " =가
- org.apache.catalina.STRICT\_SERVLET\_COMPLIANCE=true =가

- catalina.properties org.apache.tomcat.util.http.ServerCookie.ALLOW\_EQUALS\_IN\_VALUE=true 가

```

CookieController - -----
CookieController - Name : JSESSIONID Value : 95D054A9FE66C03204916CFA754F947C
CookieController - Name : CookieName1 Value : Before=After
CookieController - Name : CookieName2 Value : Before==After
CookieController - Name : CookieName3 Value : =====
CookieController - -----
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,
*/*;q=0.8
Accept-Encoding: gzip, deflate, br
Accept-Language: ko,en-US;q=0.9,en;q=0.8
Cookie: JSESSIONID=95D054A9FE66C03204916CFA754F947C; CookieName1=Before=After; Cooki
eName2=Before==After; CookieName3=====

```

- URLEncoder.encode ( Decoding )
- value =가 가

```

CookieController - -----
CookieController - Name : JSESSIONID Value : 95D054A9FE66C03204916CFA754F947C
CookieController - Name : CookieName1 Value : Before=After
CookieController - Name : CookieName2 Value : Before==After
CookieController - Name : CookieName3 Value : =====
CookieController - -----
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,
*/*;q=0.8
Accept-Encoding: gzip, deflate, br
Accept-Language: ko,en-US;q=0.9,en;q=0.8
Cookie: JSESSIONID=95D054A9FE66C03204916CFA754F947C; CookieName1=Before%3DAfter; Coo
kieName2=Before%3D%3DAfter; CookieName3=%3D%3D%3D%3D%3D%3D%3D%3D%3D%3D%3D%3D%3D%3D%3D

```

@가 @ 가

```

CookieController - -----
CookieController - Name : CookieName1 Value : Before
CookieController - Name : CookieName2 Value : Before
CookieController - Name : CookieName3 Value : Before
CookieController - Name : CookieName5 Value : Before
CookieController - Name : JSESSIONID Value : 991D95E8A3FE9CEA35C9D296ACD0516B
CookieController - -----
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,
*/*;q=0.8
Accept-Encoding: gzip, deflate, br
Accept-Language: ko,en-US;q=0.9,en;q=0.8
Cookie: CookieName1=Before@After; CookieName2=Before@@After; CookieName3=Before@@@@
@@@; CookieName4=@@@@@@After; CookieName5=Before@@@@@After; JSESSIONID=991D95E8A3F
E9CEA35C9D296ACD0516B

```

- @가 " " @가
- org.apache.catalina.STRICT\_SERVLET\_COMPLIANCE=true @가

- catalina.properties org.apache.tomcat.util.http.ServerCookie.ALLOW\_HTTP\_SEPARATORS\_IN\_V0=true 가

```

8.5
CookieController - -----
CookieController - Name : CookieName1 Value : Before@After
CookieController - Name : CookieName2 Value : Before@@After
CookieController - Name : CookieName3 Value : Before@@@@@@
CookieController - Name : CookieName4 Value : @@@@@@After
CookieController - Name : CookieName5 Value : Before@@@@@After
CookieController - Name : JSESSIONID Value : C155C9C6F1DC33782D6CDB27A843C15D
CookieController - -----
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,
*/*;q=0.8
Accept-Encoding: gzip, deflate, br
Accept-Language: ko,en-US;q=0.9,en;q=0.8
Cookie: CookieName1=Before@After; CookieName2=Before@@After; CookieName3=Before@@@@
@@@; CookieName4=@@@@@@After; CookieName5=Before@@@@@After; JSESSIONID=C155C9C6F1DC33782D6CDB27A843C15D

```

```

7
CookieController - -----
CookieController - Name : CookieName1 Value : Before@After
CookieController - Name : CookieName2 Value : Before@@After
CookieController - Name : CookieName3 Value : Before@@@@@@
CookieController - Name : CookieName4 Value : @@@@@@After
CookieController - Name : CookieName5 Value : Before@@@@@After
CookieController - Name : JSESSIONID Value : ADEA9B110739E0F276A0B50027984A02
CookieController - -----
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,
*/*;q=0.8
Accept-Encoding: gzip, deflate, br
Accept-Language: ko,en-US;q=0.9,en;q=0.8
Cookie: CookieName1=Before@After; CookieName2=Before@@After; CookieName3=Before@@@@
@@@; CookieName4=@@@@@@After; CookieName5=Before@@@@@After; JSESSIONID=ADEA9B110739E0F276A0B50027984A02

```

- URLEncoder.encode ( Decoding )

```
CookieController - Name : CookieName1 Value : Before@After
CookieController - Name : CookieName2 Value : Before@@After
CookieController - Name : CookieName3 Value : Before@@@@@After
CookieController - Name : CookieName4 Value : @@@@@@After
CookieController - Name : CookieName5 Value : Before@@@@After
CookieController - Name : JSESSIONID Value : 2141A6800CB6ABFB75CBE84A6B3E17B6
CookieController -
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8
Accept-Encoding: gzip, deflate, br
Accept-Language: ko,en-US;q=0.9,en;q=0.8
Cookie: CookieName1=Before%40After; CookieName2=Before%40%40After; CookieName3=Before%40%40%40%40%40%40%40; CookieName4=%40%40%40%40%40%40After; CookieName5=Before%40%40%40%40After; JSESSIONID=2141A6800CB6ABFB75CBE84A6B3E17B6
```

o value @가 가 " "

Value +가 " "( )

- o Content-type applicatoin/x-www-form-urlencoded
- o Url-safe base64 encode . (Encoding + /가 - \_ .)

```
/**
 * This array is a lookup table that translates 6-bit
 positive integer
 * index values into their "Base64 Alphabet" equivalents
 as specified
 * in "Table 1: The Base64 Alphabet" of RFC 2045 (and RFC
 4648).
 */
private static final char[] toBase64 = {
    'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K',
'L', 'M',
    'N', 'O', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X',
'Y', 'Z',
    'a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k',
'l', 'm',
    'n', 'o', 'p', 'q', 'r', 's', 't', 'u', 'v', 'w', 'x',
'y', 'z',
    '0', '1', '2', '3', '4', '5', '6', '7', '8', '9', '+',
'/'};

/**
 * It's the lookup table for "URL and Filename safe
 Base64" as specified
 * in Table 2 of the RFC 4648, with the '+' and '/'
 changed to '-' and
 * '_'. This table is used when BASE64_URL is specified.
 */
private static final char[] toBase64URL = {
    'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K',
'L', 'M',
    'N', 'O', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X',
'Y', 'Z',
    'a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k',
'l', 'm',
    'n', 'o', 'p', 'q', 'r', 's', 't', 'u', 'v', 'w', 'x',
'y', 'z',
```

```

        '0', '1', '2', '3', '4', '5', '6', '7', '8', '9', '-',
    };

```

- o Java 8            java.util.Base64        getURLenCoder().enCode
- o 8                    org.apache.commons.codec.binary.Base64  
  enCodeBase64URLSafeString

가    가            가

## HTTP Status 500 – Internal Server Error

### Type Exception Report

**Message** Request processing failed; nested exception is java.lang.IllegalArgumentException: Cookie name [(CookieName1)] is a reserved token

**Description** The server encountered an unexpected condition that prevented it from fulfilling the request.

### Exception

```

org.springframework.web.util.NestedServletException: Request processing failed; nested exception is ja
org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:894)
org.springframework.web.servlet.FrameworkServlet.doGet(FrameworkServlet.java:778)
javax.servlet.http.HttpServlet.service(HttpServlet.java:635)
javax.servlet.http.HttpServlet.service(HttpServlet.java:742)
org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:52)

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```

        makeCookie(response, "(CookieName1)",
"Bracket");
        makeCookie(response, "{CookieName2}",
"Bracket");
        makeCookie(response, "[CookieName3]",
"Bracket");
        makeCookie(response, "CookieName4",
"(Bracket)");
        makeCookie(response, "CookieName5",
"{Bracket}");
        makeCookie(response, "CookieName6",
"[Bracket]");

```

```

.CookieController - -----
.CookieController - Name : CookieName1 Value :
.CookieController - Name : CookieName2 Value :
.CookieController - Name : CookieName3 Value :
.CookieController - Name : JSESSIONID Value : 5E4B160512920A4D213E5E2D8EFEEBCB
.CookieController - -----
Accept-Encoding: gzip, deflate, br
Accept-Language: ko,en-US;q=0.9,en;q=0.8
Cookie: (CookieName1)=Bracket; {CookieName2}=Bracket; [CookieName3]=Bracket; CookieN
ame4=(Bracket); CookieName5={Bracket}; CookieName6=[Bracket]; JSESSIONID=5E4B1605129
20A4D213E5E2D8EFEEBCB

```

- Tomcat 7

# HTTP Status 500 – Internal Server Error

## Type Exception Report

**Message** Request processing failed; nested exception is java.lang.IllegalArgumentException: Cookie name [(CookieName1)] is a reserved token

**Description** The server encountered an unexpected condition that prevented it from fulfilling the request.

## Exception

```
org.springframework.web.util.NestedServletException: Request processing failed; nested exception is java.lang.IllegalArgumentException: Cookie name [(CookieName1)] is a reserved token
    org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:894)
    org.springframework.web.servlet.FrameworkServlet.doGet(FrameworkServlet.java:778)
    javax.servlet.http.HttpServlet.service(HttpServlet.java:635)
    javax.servlet.http.HttpServlet.service(HttpServlet.java:742)
    org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:52)
```

- URLEncoder.encode ( Decoding )

<pre>CookieController - Name : (CookieName1) Value : Bracket CookieController - Name : {CookieName2} Value : Bracket CookieController - Name : [CookieName3] Value : Bracket CookieController - Name : CookieName4 Value : (Bracket) CookieController - Name : CookieName5 Value : {Bracket} CookieController - Name : CookieName6 Value : [Bracket] CookieController - Name : JSESSIONID Value : 5B0A4909254ED2D5897D9EBA5E937374</pre>	<pre>DNT: 1 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8 Accept-Encoding: gzip, deflate, br Accept-Language: ko,en-US;q=0.9,en;q=0.8 Cookie: %28CookieName1%29=Bracket; %7BCookieName2%7D=Bracket; %5BCookieName3%5D=Bracket; CookieName4=%28Bracket%29; CookieName5=%7BBracket%7D; CookieName6=%5BBracket%5D; JSESSIONID=5B0A4909254ED2D5897D9EBA5E937374</pre>
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- [1][https://en.wikipedia.org/wiki/HTTP\\_cookie#History](https://en.wikipedia.org/wiki/HTTP_cookie#History)
- [2][http://web.archive.org/web/20020803110822/http://wp.netscape.com/newsref/std/cookie\\_spec.html](http://web.archive.org/web/20020803110822/http://wp.netscape.com/newsref/std/cookie_spec.html)
- [3]<https://tools.ietf.org/html/rfc2109>
- [4]<https://tools.ietf.org/html/rfc6265>

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