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Last http_cookie
update: 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
2020/11/27 - -
11:36 -

HTTP cookie

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

HTTP

- HTTP 가
-

()

- . 12 (DB .)
- UID() 가
- 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

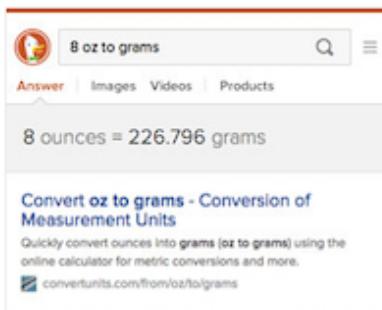
Name	Value	Domain	Path	Expires / Max-Age
BID	B7OMN72YM6GFO38...	.hangame.com	/	2050-01-01T09:00:00.784Z
CAT	Y+1	.hangame.com	/	2018-11-21T00:37:34.514Z
HG_CP_LOGIN	"iNto0EJ2sxsXkoaitVu...	.hangame.com	/	1969-12-31T23:59:59.000Z
HG_JS	Y%5E27%5EM%5E%	.hangame.com	/	1969-12-31T23:59:59.000Z
HG_LOGIN	c5U4eWNQ9GjS_-ouY...	.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

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

터미널



8 oz to grams

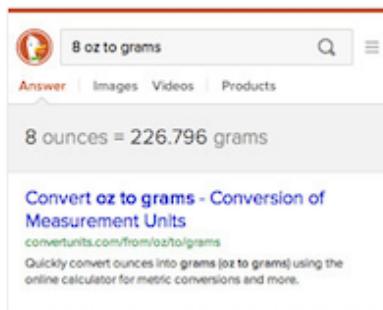
8 ounces = 226.796 grams

Convert oz to grams - Conversion of Measurement Units

Quickly convert ounces into grams (oz to grams) using the online calculator for metric conversions and more.

convertunits.com/from/oz/to/grams

기본값



8 oz to grams

8 ounces = 226.796 grams

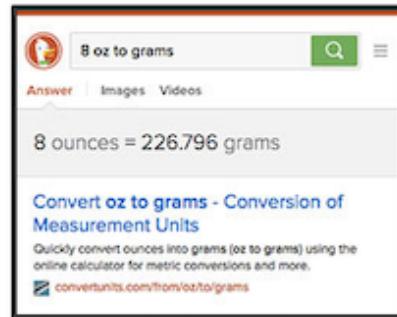
Convert oz to grams - Conversion of Measurement Units

convertunits.com/from/oz/to/grams

Quickly convert ounces into grams (oz to grams) using the online calculator for metric conversions and more.

convertunits.com/from/oz/to/grams

기본



8 oz to grams

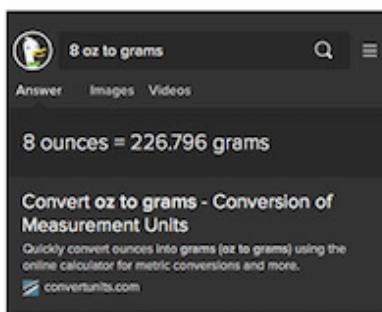
8 ounces = 226.796 grams

Convert oz to grams - Conversion of Measurement Units

Quickly convert ounces into grams (oz to grams) using the online calculator for metric conversions and more.

convertunits.com/from/oz/to/grams

✓ 색상 대비



8 oz to grams

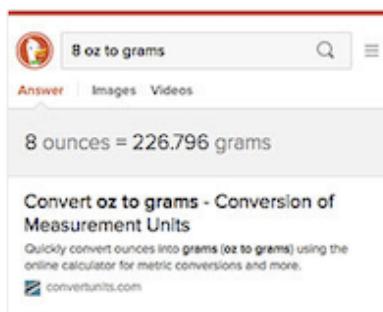
8 ounces = 226.796 grams

Convert oz to grams - Conversion of Measurement Units

Quickly convert ounces into grams (oz to grams) using the online calculator for metric conversions and more.

convertunits.com

어둠



8 oz to grams

8 ounces = 226.796 grams

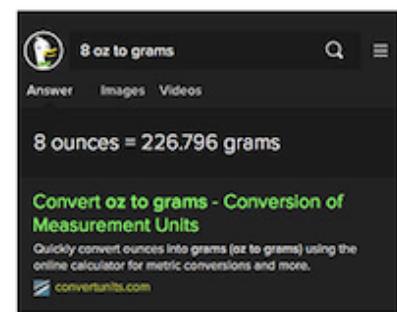
Convert oz to grams - Conversion of Measurement Units

convertunits.com

Quickly convert ounces into grams (oz to grams) using the online calculator for metric conversions and more.

convertunits.com

회색



8 oz to grams

8 ounces = 226.796 grams

Convert oz to grams - Conversion of Measurement Units

Quickly convert ounces into grams (oz to grams) using the online calculator for metric conversions and more.

convertunits.com

터미널

Entries	Console	Sources	Network	Performance	Memory	Application	Security	Audits
cookies						   Filter		

()

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

Path

- Domain 가 가
- Path 가 Path 가
- Path Set-Cookie

Expires / Max-Age

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

Secure

- Secure
- 가

HttpOnly

- HttpOnly HTTP
- HttpOnly 가 API

- 가
- Expires Max-Age 가 가
- Expires Max-Age 가
- Expires Max-Age 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 RFC 2109 delta-seconds Expires
 - Netscape ; , ' ' RFC 2109 가
 - 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
- At least 4096 bytes per cookie (as measured by the sum of the length of the cookie's name, value, and attributes).
- At least 50 cookies per domain.
- 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



6265.

- 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

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 -

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
- - 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

""

- 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

JSESSIONID 가

- https://bz.apache.org/bugzilla/show_bug.cgi?id=60854
- - 가
 - JSESSIONID 가
 - 가 2 JSESSIONID 가
- - alwaysUseSession="true" (가)

ClusterSingleSignOn valve SingleSignOnEntry 가

- 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
- - 8.0.29

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

Rfc6265CookieProcessor

가

- 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
- - 8.5.12
 - version 0 RFC6265

Set-Cookie 가 RFC

- 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.IllegalArgumentException: Control character in 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.IllegalArgumentException: Control character in cookie value or attribute.
    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 - =====
CookieController - Name : CookieName1 Value : %C7%D1%8B1%DB%C5%D7%BD%BA%C6%AE1
CookieController - Name : CookieName2 Value : %22%C7%D1%8B1%DB%C5%D7%BD%BA%C6%AE2%22
CookieController - Name : %C7%D1%8B1%DB%C5%D7%BD%BA%C6%AE3 Value : Value3
CookieController - Name : CookieName4 Value : !#%
CookieController - Name : JSESSIONID Value : EC15422CDCB16E4A7B15776C44ED6B41
CookieController - =====
```

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Set-Cookie: CookieName1=%C7%D1%8B1%DB%C5%D7%BD%BA%C6%AE1
Set-Cookie: CookieName2=%22%C7%D1%8B1%DB%C5%D7%BD%BA%C6%AE2%22
Set-Cookie: %C7%D1%8B1%DB%C5%D7%BD%BA%C6%AE3=Value3
Content-Type: text/html
```

- Tomcat 8.5

```
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 : EA7DD1577F4C3FACD984DFC3402C9E21
CookieController - =====
```

=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 ” “
 - org.apache.catalina.STRICT_SERVLET_COMPLIANCE=true =가 ” “

- catalina.properties
org.apache.tomcat.util.http.ServerCookie.ALLOW_EQUALS_IN_VALUE=true 가

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

- URLEncoder.encode (Decoding)

- value = 가 가

@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 : 991D95E8A3F9CEA35C9D296ACD0516B
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@0@0@0@0; CookieName4=@0@0@0@0@After; CookieName5=Before@0@0@0@After; JSESSIONID=991D95E8A3F9CEA35C9D296ACD0516B
```

- @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@000000
.CookieController - Name : CookieName4 Value : @000000After
.CookieController - Name : CookieName5 Value : Before@0000After
.CookieController - =====
.CookieController - Name : JSESSIONID Value : C155C96F1DCC372BDC0B27A843C15D
.CookieController - =====
```

7

```
CookieController - Name : CookieName1 Value : Before@@After
.CookieController - Name : CookieName2 Value : Before@@After
.CookieController - Name : CookieName3 Value : Before@@000000
.CookieController - Name : CookieName4 Value : @000000After
.CookieController - Name : CookieName5 Value : Before@@0000After
CookieController - Name : JSESSIONID Value : ADEA9B10739E0276A0B50027984A02
CookieController - Name : JSESSIONID Value : 9E0F276A0B50027984A02
```

- 6 (가) 7 .
◦ URLEncoder.encode () Decoding ()

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 -

```
CookieController - =====
CookieController - Name : CookieName1 Value : Before@After
CookieController - Name : CookieName2 Value : Before@After
CookieController - Name : CookieName3 Value : Before@000000
CookieController - Name : CookieName4 Value : @000000After
CookieController - Name : CookieName5 Value : Before@0000After
CookieController - Name : JSESSIONID Value : 2141A6800CB6ABFB75CBE84A6B3E17B6
CookieController -
```

- value @가 가 ” “

Value +가 ” "()

- ○ Content-type applicatoin/x-www-form-urlencoded
- ○ 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', '-',  
};
```

- Java 8 `java.util.Base64` `getUrlEncoder().encode`
 - 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 java.lang.NullPointerException
    at org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:894)
    at org.springframework.web.servlet.FrameworkServlet.doGet(FrameworkServlet.java:778)
    at javax.servlet.http.HttpServlet.service(HttpServlet.java:635)
    at javax.servlet.http.HttpServlet.service(HttpServlet.java:742)
    at org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:52)
```

- Tomcat 6

- 가 value가
 - value

```
        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 : 5E4B160512920A4D213E5E2D8EFEBCB  
.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; CookieName4=(Bracket); CookieName5={Bracket}; CookieName6=[Bracket]; JSESSIONID=5E4B160512920A4D213E5E2D8EFEBCB

- 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
    at org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:894)
    at org.springframework.web.servlet.FrameworkServlet.doGet(FrameworkServlet.java:778)
    at javax.servlet.http.HttpServlet.service(HttpServlet.java:635)
    at javax.servlet.http.HttpServlet.service(HttpServlet.java:742)
    at org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:52)
```

- URLEncoder.encode . (Decoding .)

```
CookieController - =====
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
CookieController - =====
```

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

- [1]https://en.wikipedia.org/wiki/HTTP_cookie#History
- [2]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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