

md5

- description : md5
- author :
- email : shlim@repia.com
- lastupdate : 2022-04-18 Mon

md5

(block length):

() , , 가 .

(Hash)

- (block length) . (: IT
-) 가 .
- 가 . (: IT -) 가 (:)

Class MessageDigest

MessageDigest SHA-1 SHA-256 Message Digest

Message Digest 가 가

(Message digests are secure one-way hash functions that take arbitrary-sized data and output a fixed-length hash value.)

Java MessageDigest .

- MD5
- SHA-1
- SHA-256

Class DigestUtils

MessageDigest	가	MessageDigest
MessageDigestAlgorithms	getDigest(String) digest	Digest

md5Hex

```
public static String md5Hex(String data)
```

Calculates the MD5 digest and returns the value as a 32 character hex string.
 MD% digest, 32, 16

```
package com.ocean.crypto.md5;

import org.apache.commons.codec.digest.DigestUtils;

public class MD5HashDemo {

    public static void main(String[] args) {
        // Calculates the MD5 digest for the password text and returns
        // the value as a 32 character hex string
        String password = "s3cretw0rd**";
        String digest = DigestUtils.md5Hex(password);

        // Prints the plain text password, the digest and the Length of the
        // digest
        System.out.println("Password = " + password); // Password = s3cretw0rd**
        System.out.println("Password Digest = " + digest); // Password Digest = 203c603a7330ab3ea032f4b9f140cf95
        System.out.println("Length = " + digest.length()); // Length = 32

        // Calculates the MD5 digest for the Long texts.
        String md5 = ""
            + "The MD5 message-digest algorithm is a formerly \
            widely used cryptographic hash function that produces \
            a 128 bit hash value.";
    }
}
```

```

a 128-bit (16-byte) hash value. Specified in RFC 1321, \
MD5 has been utilized in a wide variety of security \
applications, and is also commonly used to check data \
integrity. MD5 was designed by Ron Rivest in 1991 to \
replace an earlier hash function, MD4. An MD5 hash value \
is typically expressed as a hexadecimal number, 32 \
digits long.
""";
String fingerprint = DigestUtils.md2Hex(md5);

// Prints the text, the fingerprint and the Length of the digest /
fingerprint
System.out.println("Text          = " + md5);
// Text          = The MD5 message-digest algorithm is a formerly
widely used cryptographic hash function that produces a 128-bit (16-byte)
hash value.
// Specified in RFC 1321, MD5 has been utilized in a wide variety of
security applications, and is also commonly used to check data integrity.
// MD5 was designed by Ron Rivest in 1991 to replace an earlier hash
function, MD4. An MD5 hash value is typically expressed as a hexadecimal
number, 32 digits long.
System.out.println("Fingerprint = " + fingerprint);           //
Fingerprint = 09ad24fef35b06e6add520b5c6fff1d6
System.out.println("Length      = " + fingerprint.length());   //
Length      = 32
}
}

```

SHA	Secure Hash Algorithm,	
SHA-256	128	256
SHA-384	SHA512	.
SHA-512	256	512

Ref Site

[Message Digest, FingerPrint -](#)

[Class DigestUtils](#)

[Class MessageDigest](#)

[How do I calculate the MD5 digest of a string?](#)

- Hash() Salt()

[RFC1321 - The MD5 Message_Digest Algorithm](#)

[Class Hashtable<K,V>](#)

[MD5 Hashing in Java](#)

[Guide to hashCode\(\) in Java](#)

[Java equals\(\) hashCode\(\)](#)

[Guideto HashCode\(\) in Java](#)

[Hashing Algorithm in Java](#)

[\[\]Hash](#)

[\[/ \] \(Hash\) ?](#)

[\[java\]Hash 가?](#)

[Message Digest](#)

[MD5](#)

[MessageDigest Algorithms](#)

[,, md5](#)

From:
<https://125.132.25.164/dokuwiki/> -
. - 2023.12

Permanent link:
<https://125.132.25.164/dokuwiki/doku.php?id=wiki:miscellaneous:md5>

Last update: **2023/01/13 18:44**

