

How To Convert Byte[] To BufferedImage In Java



Posted on September 29, 2009

By [mkyong](#)

[Kitchen Remodeling Deals](#) Find Kitchen Remodeling Experts. Compare Free Estimates & Save Now. [KitchensAndCabinets.com](#)

The conversion from `byte[]` to `BufferedImage` is involved the use of `InputStream` and `ImageIO.read` as following :

```
InputStream in = new ByteArrayInputStream(imageInByte);
BufferedImage bImageFromConvert = ImageIO.read(in);
```

The following example will read an image file named "*darksouls.jpg*", convert it into byte array, and then reuse the converted byte array, and convert it back to a new `BufferedImage`, and save it back into a new name "*new-darksouls.jpg*".

```
package com.mkyong.image;
```

 Like 10k



 Follow

3,276 followers

Get the latest in your inbox for free.

Puts your email address

Subscribe



```

import java.awt.image.BufferedImage;
import java.io.ByteArrayInputStream;
import java.io.ByteArrayOutputStream;
import java.io.File;
import java.io.IOException;
import java.io.InputStream;
import javax.imageio.ImageIO;

public class ImageTest {

    public static void main(String[] args) {

        try {

            byte[] imageInByte;
            BufferedImage originalImage = ImageIO.read(new File(
                "c:/darksouls.jpg"));

            // convert BufferedImage to byte array
            ByteArrayOutputStream baos = new ByteArrayOutputStream();
            ImageIO.write(originalImage, "jpg", baos);
            baos.flush();
            imageInByte = baos.toByteArray();
            baos.close();

            // convert byte array back to BufferedImage
            InputStream in = new ByteArrayInputStream(imageInByte);
            BufferedImage bImageFromConvert = ImageIO.read(in);

            ImageIO.write(bImageFromConvert, "jpg", new File(
                "c:/new-darksouls.jpg"));

        } catch (IOException e) {
            System.out.println(e.getMessage());
        }

    }
}

```

Tags : [bufferedimage](#) [imageio](#) [java](#)



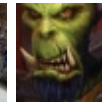
Mkyong on Facebook



10,535 people like **Mkyong**.



Sudha



Kollnyx



Malinda



Diana



Ashok



S



Facebook social plugin

Audio Converter

- 1 Click the Download button
- 2 This will take you to our webdite
- 3 Download the product Advertisement





mkyong

Founder of Mkyong.com, love Java and open source stuffs. Follow him on [Twitter](#), or befriend him on [Facebook](#) or [Google Plus](#).

Related Posts

- ▶ [How to write an image to file – Java ImageIO](#)
- ▶ [How to load and write an image in Java?](#)
- ▶ [How to convert BufferedImage to byte\[\] in Java?](#)
- ▶ [Search directories recursively for file in Java](#)
- ▶ [How to execute shell command from Java](#)

Popular Posts

- ▶ [Top 8 Java People You Should Know](#)
- ▶ [Top 20 Java Websites](#)
- ▶ [Top 5 Free Java eBooks](#)
- ▶ [Top 10 Java Regular Expression Examples](#)
- ▶ [Top 5 Open Source Q&A Systems](#)

You might also like following tutorials :



UNLIMITED SPACE

NOW 20% OFF

\$3.96

GET STARTED NOW

HOSTGATOR.COM

▶ 1-866-96-GATOR



Jacek

November 14, 2012 at 5:06 am

Hi.

I read form file to byte array. In next step i change image size and write as byte array to screen. It's work fine.
Thanks for tutorial.

Reply



nico

August 15, 2012 at 3:25 pm

i need help on showing images from database to my jsp page. I am using Spring+Hibernate Framework. i am getting String when i get the blob from the pojo. can i get image directly from the pojo? thanks

Reply



Manuel

July 1, 2012 at 1:15 pm

Hola Amigos .. aca tengo una duda .. veo la imagen en mi aplicacion y todo bien .. el problema es como hago para guardar la imagen capturda de una webcam .. trate de acer esto . pero solo llege hasta aqui !! ...

```
try{
```

```
Image img=null;  
FrameGrabbingControl fgc = (FrameGrabbingControl)  
player.getControl("javax.media.control.FrameGrabbingControl");  
Buffer buf = fgc.grabFrame();  
// creamos la imagen awt  
BufferToImage btoi = new BufferToImage((VideoFormat)buf.getFormat());  
img = btoi.createImage(buf);
```

```
if (img != null)  
{
```

```
ByteArrayOutputStream out = new ByteArrayOutputStream();  
ImageIO.write((RenderedImage) img, "JPEG", out);  
InputStream in = new ByteArrayInputStream(out.toByteArray());
```

```
// _____  
// AQUI COMO AGO PARA CONVERTIR LA IMAGEN A BYTE ... PARA GUARDARLO EN BD SQL  
// _____  
  
}catch(Exception ex){}
```

[Reply](#)

Deniz

June 26, 2012 at 4:07 pm

Thanks a lot for this and other nice and handy tutorials.

[Reply](#)

junaid

June 12, 2012 at 7:37 pm

Hello All,
I want to convert raw file to jpg.
I have file name ss.raw. I want to convert it into ss.jpg. Please help me.
Thanks in Advance.

[Reply](#)

Shark

June 7, 2012 at 4:56 pm

How to read images from HDFS in map-reduce??

[Reply](#)



Bhavesh

May 8, 2012 at 2:36 am

```
/*
 * To change this template, choose Tools | Templates
 * and open the template in the editor.
 */
package javaapplication3;

import java.awt.image.BufferedImage;
import java.io.ByteArrayInputStream;

import java.io.File;
import java.io.IOException;
import java.io.InputStream;
import javax.imageio.ImageIO;

/**
 *
 * @author Bhavesh
 */
public class JavaApplication3 {
    public static void main(String[] args) {
        // TODO code application logic here

        try {

            InputStream in = new ByteArrayInputStream(hexToBytes("CD302C16E7D85
            BufferedImage bImageFromConvert = ImageIO.read(in);

            ImageIO.write(bImageFromConvert, "jpg", new File("f:/new-darksouls.

        } catch (IOException e) {
            System.out.println(e.getMessage());
        }

    }
}
```

```
public static byte[] hexToBytes(char[] hex) {  
    int length = hex.length / 2;  
    byte[] raw = new byte[length];  
    for (int i = 0; i < length; i++) {  
        int high = Character.digit(hex[i * 2], 16);  
        int low = Character.digit(hex[i * 2 + 1], 16);  
        int value = (high << 4) | low;  
        if (value > 127)  
            value -= 256;  
        raw[i] = (byte) value;  
    }  
    return raw;  
}  
  
public static byte[] hexToBytes(String hex) {  
    return hexToBytes(hex.toCharArray());  
}  
}
```

i got this error..

Exception in thread "main" java.lang.IllegalArgumentException: im == null!
at javax.imageio.ImageIO.write(ImageIO.java:1457)
at javax.imageio.ImageIO.write(ImageIO.java:1521)
at javaapplication3.JavaApplication3.main(JavaApplication3.java:48)
Java Result: 1

please help me

Reply



umer

November 29, 2011 at 11:32 pm

hi,

how can i read image in byte array from socket and write a jpeg file, please help me here is my email
umer_rock_12[at]hotmail.com

Thanks and Regards

umer

Reply



Jason

November 13, 2011 at 12:33 am

Hi Mkyong,

```
InputStream in = new ByteArrayInputStream(rsvalue.getBytes(10));  
BufferedImage bImageFromConvert = ImageIO.read(in);  
  
ImageIO.write(bImageFromConvert, "jpg", new File("D:\\\\" + rsvalue.getString(2) + ".jpg"));
```

I having this error :

Exception in thread "main" java.lang.IllegalArgumentException: im == null!

Reply



Mikhail

September 12, 2011 at 10:17 pm

Thank you!

Reply



Guillermo

September 7, 2011 at 5:11 am

Excelente ejemplo! Gracias.

Reply



Alexander

May 26, 2011 at 4:52 am

Help me a lot, Thank you.

Reply



dilla

April 7, 2011 at 4:54 pm

Great code.. much help.. thx

Reply



reza

January 1, 2011 at 1:08 pm

thanks a lot
it was useful for me.

god bless you

Reply



binnu

December 20, 2010 at 7:32 pm

Tu java na..mei k aaj ko hu...

Reply



aashish

June 4, 2010 at 1:07 am

awesome code, helped me today...

thank you

Aashish Dalmia

Reply

I'd love your thoughts

Your email address will not be published. Required fields are marked *

Name *

Email *

Website

Comment

Note

To post source code in comment, uses `<pre lang="language"></pre>` tag, for examples :

▶ `<pre lang="java"> Java source code here </pre>`

▶ `<pre lang="xml"> XML here </pre>`

Post Comment

☐ Notify me of followup comments via e-mail

All Available Tutorials

Java Core Technologies :

Java I/O, Java RegEx, Java XML, Java JSON, JDBC, Java Misc

J2EE Frameworks :

Hibernate, JSF 2.0, Spring Core, Spring MVC, Spring Security, Apache Wicket, Struts 1.x, Struts 2.x

Web Service :

JAX-WS (SOAP), JAX-RS (REST)

Build Tools :

Maven, Archiva

Unit Test Frameworks :

jUnit, TestNG

Others :

Android, Google App Engine, jQuery, Java MongoDB, Quartz Scheduler

Favorites Links

Android Developer

Google App Engine using Java

DZone - Fresh Links

Official Java EE 5 Tutorial

Official Java EE 6 Tutorial

Spring 2.5.x documentation

Spring 3.1.x documentation

Hibernate core documentation

Java SE 6.0 API documentation

Java EE 6.0 API documentation

Java Secure Socket Extension (JSSE) Reference Guide

JSP home page

JSF home page

Eclipse IDE for Java developer

Struts 1.3 documentation

Struts 2.2 documentation

Maven home page

Maven central repository Search

Friends & Links

Java Training

JavaScript Training

Java Code Geeks

PHP Tutorials

TenthOfMarch

Find Free Icons

Web Security Blog

Web Development

About Us

Mkyong.com is a weblog dedicated to Java/J2EE developers and Web Developers. We constantly publish useful tricks, tutorials on J2EE or web development.

All examples are simple, easy to read, and full source code available, and of course well tested in our development environment.

We're Social

1. [Twitter - Follow Me](#)
2. [Facebook - Like Me](#)
3. [Google Plus - Add Me](#)
4. [RSS - Subscribe Me](#)

[Java.Net Maven repository](#)

[Ant home page](#)

[JAX-WS Official Website](#)

[JAX-RS Official Website \(Jersey\)](#)

[MongoDB Official Website](#)

Copyright © 2008-2013 Mkyong.com, all rights reserved. Web Hosting Powered by [Liquid Web](#)