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How do I save an image from a URL to a file?

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How do I save an image from a URL to a file?

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Description: This Java tutorial shows how to download an image from a URL and save it to a file.

Tutorial created using: Windows XP || JDK 1.6.0_10 || Eclipse JEE Ganymede SR1 (Eclipse 3.4.1)

Occasionally it can be useful to have the ability to download an image from a URL programmatically and save it as a file. A standard way to do this in Java is to obtain an input stream to read from a URL and then write this to an output stream associated with a file.

The `SaveImageFromUrl` class demonstrates this technique. It obtains a `URL` object for an image and then obtains an input stream to this image. It creates an output stream to a file via `FileOutputStream`. Using standard Java stream handling, the input stream is read in chunks via the while loop, and the bytes are written to the output stream.

[SaveImageFromUrl.java](#)

```
package com.cakes;

import java.io.FileOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.net.URL;

public class SaveImageFromUrl {

    public static void main(String[] args) throws Exception {
        String imageUrl = "http://www.avajava.com/images/avajavalogo.jpg";
        String destinationFile = "image.jpg";

        saveImage(imageUrl, destinationFile);
    }

    public static void saveImage(String imageUrl, String destinationFile) throws IOException {
        URL url = new URL(imageUrl);
        InputStream is = url.openStream();
        OutputStream os = new FileOutputStream(destinationFile);

        byte[] b = new byte[2048];
        int length;

        while ((length = is.read(b)) != -1) {
            os.write(b, 0, length);
        }

        is.close();
        os.close();
    }
}
```

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