



How to Parse JSON in Java



Submitted by **tmo9d**



Posted Sep 23 2009 12:25 PM



Use json-lib, a library which adds JSON support to any Java program. json-lib can take a String and turn it into a JSONObject which can then be used to retrieve specific attributes.

1. Add this dependency to your project:

```
<dependency>
  <groupId>net.sf.json-lib</groupId>
  <artifactId>json-lib</artifactId>
  <version>2.3</version>
  <scope>compile</scope>
</dependency>
```

What does this mean? See [How to Add a Dependency to a Java Project](#)

2. Put the following JSON sample in your classpath:

```
{'foo': 'bar',
 'coolness': 2.0,
 'altitude': 39000,
 'pilot': {'firstName': 'Buzz',
           'lastName': 'Aldrin'},
```

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```
'mission': 'apollo 11'}
```

3. Load the resource from the classpath and parse this JSON as follows:

```
package com.discursive.answers;

import java.io.InputStream;

import net.sf.json.JSONObject;
import net.sf.json.JSONSerializer;

import org.apache.commons.io.IOUtils;

public class JsonParsing {

    public static void main(String[] args) throws Exception {
        InputStream is =
            JsonParsing.class.getResourceAsStream( "sample-json.txt");
        String jsonTxt = IOUtils.toString( is );

        JSONObject json = (JSONObject) JSONSerializer.toJSON( jsonTxt );
        double coolness = json.getDouble( "coolness" );
        int altitude = json.getInt( "altitude" );
        JSONObject pilot = json.getJSONObject("pilot");
        String firstName = pilot.getString("firstName");
        String lastName = pilot.getString("lastName");

        System.out.println( "Coolness: " + coolness );
        System.out.println( "Altitude: " + altitude );
        System.out.println( "Pilot: " + lastName );
    }
}
```

Note that JSONSerializer returns a JSON object. This is a general object which could be a JSONObject or a JSONArray depending on the JSON you are trying to parse. In this example, since I know that the JSON is a JSONObject, I can cast

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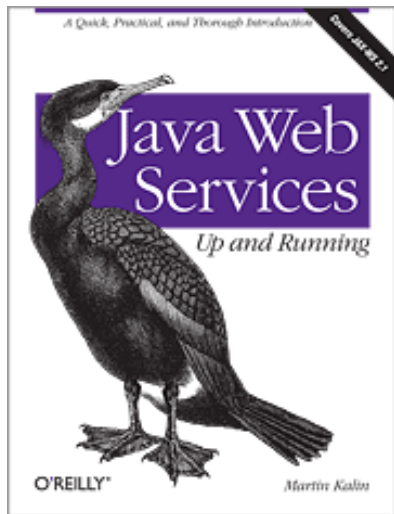
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the result directly to a JSONObject. If you are dealing with JSON that could return a JSONArray, you'll likely want to check the type of the object that is returned by toJSON.

This sample project is available on GitHub here: <http://github.com/to...le-json-parsing>

For more information about the json-lib project, see [JSON-LIB project page](#)



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Alternative solution by Stuart12345

Posted Sep 30 2011 10:13 AM

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Be sure to add the classifier:

```
<dependency>
<groupId>net.sf.json-lib</groupId>
<artifactId>json-lib</artifactId>
<version>2.4</version>
<classifier>jdk15</classifier>
</dependency>
```

see <http://stackoverflow.com/questions/1011112/net-sf-json-lib>



Alternative solution by Adam Musial-Bright



Posted Oct 03 2011 09:39 AM



[Gson](#), the Google JSON library is also very nice.

You will need a simple POJOs for the JSON representation:

```
// JSON representation
class MyJson {

    public MyJson() {}

    private String foo;
    private float coolness;
    // other attributes

    public void setFoo(String foo) {
        this.foo = foo;
    }

    public String getFoo() {
        return foo;
    }
}
```

```
public void setCoolness(float coolness) {
    this.coolness = coolness;
}

public float getCoolness() {
    return coolness;
}

}
```

Now you can convert a JSON representation into a JSON object:

```
Gson gson = new Gson();
MyJson myJson = new gson.fromJson(jsonTxt, MyJson.class);

// now you have a real java object
System.out.println(myJson.getFoo());
```

done.



Alternative solution by [handark](#)

Posted Mar 30 2012 07:21 AM



Gson is a very good library.

Thanks Adam

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