

1. How to get fastjson?

you can download fastjson at:

- maven central repo: <http://central.maven.org/maven2/com/alibaba/fastjson/>
- Sourceforge.net: <https://sourceforge.net/projects/fastjson/files/>
- maven the newest version of fastjson will be published to central maven repo, you can add the dependency.

```
<dependency>
  <groupId>com.alibaba</groupId>
  <artifactId>fastjson</artifactId>
  <version>1.2.12</version>
</dependency>
```

for android

```
<dependency>
  <groupId>com.alibaba</groupId>
  <artifactId>fastjson</artifactId>
  <version>1.1.52.android</version>
</dependency>
```

2. What are the main APIs in fastjson ?

The entrance Class of fastjson is com.alibaba.fastjson.JSON, the main API are JSON.toJSONString and parseObject.

```
package com.alibaba.fastjson;
public abstract class JSON {
    public static final String toJSONString(Object object);
    public static final <T> T parseObject(String text, Class<T> clazz,
    Feature... features);
}
```

serialize :

```
String jsonString = JSON.toJSONString(obj);
```

deserialize :

```
VO vo = JSON.parseObject("...", VO.class);
```

vector deserialize :

```
import com.alibaba.fastjson.TypeReference;
```

```
List<VO> list = JSON.parseObject("...", new TypeReference<List<VO>>() {});
```

3. Where can I find examples using fastjson

fastjson examples : <https://github.com/alibaba/fastjson/wiki/Samples-DataBind>

4. How is the performance of fastjson ?

Until now, fastjson is the fastest json lib for Java, faster than the self-announced fastest jackson. The link is the third-party test result:

<https://github.com/eishay/jvm-serializers/wiki/Staging-Results>

When doing yourself testing, disable circular reference detect.

```
JSON.toJSONString(obj, SerializerFeature.DisableCircularReferenceDetect)  
VO vo = JSON.parseObject("...", VO.class,  
Feature.DisableCircularReferenceDetect)
```

Here is the comment about fastjson of the author of jackson cowtowncoder:

<https://groups.google.com/forum/#!topic/java-serialization-benchmarking/8eS1KOQuAhw>

5. fastjson v.s. gson?

fastjson is about 6 times faster than gson, here is the testing result:

<https://github.com/eishay/jvm-serializers/wiki/Staging-Results> .

6. Can fastjson be used in android?

fastjson has a specific version for android, whose unusual functions are removed. The size of jar is smaller. git branch address: <https://github.com/alibaba/fastjson/tree/android>

7. Does fastjson serialization need to configure serialization of java beans like json-lib?

No, fastjson serialization and deserialization do not need special configuration, the only requirement is that your serialized class conforms to the java bean specification.

8. How fastjson handles dates?

so easy, for example:

```
JSON.toJSONStringWithDateFormat(date, "yyyy-MM-dd HH:mm:ss.SSS")
```

with ISO-8601 date format

```
JSON.toJSONString(obj, SerializerFeature.UseISO8601DateFormat);
```

global setting of date format

```
JSON.DEFFAULT_DATE_FORMAT = "yyyy-MM-dd";  
JSON.toJSONString(obj, SerializerFeature.WriteDateUseDateFormat);
```

auto recognize date format as below when deserialize:

- ISO-8601 format
- yyyy-MM-dd
- yyyy-MM-dd HH:mm:ss
- yyyy-MM-dd HH:mm:ss.SSS
- milliseconds
- milliseconds string
- .NET JSON format
- new Date(198293238)

9. how to customize the serialization ?

use SimplePrePropertyFilter to filter the property, more info here :

<https://github.com/alibaba/fastjson/wiki/%E4%BD%BF%E7%94%A8SimplePropertyPreFilter%E8%BF%87%E6%BB%A4%E5%B1%9E%E6%80%A7>

here is the detailed introduction about customizing serialize :

<https://github.com/alibaba/fastjson/wiki/%E5%AE%9A%E5%88%B6%E5%BA%8F%E5%88%97%E5%8C%96>

10. When the object has a reference, but the serialized result browser does not support it, what should I do?

use `SerializerFeature.DisableCircularReferenceDetect` to close the reference check and generate:

```
String jsonString = JSON.toJSONString(obj,
    SerializerFeature.DisableCircularReferenceDetect);
```

11. IE 6 does not support JSON with Chinese character, how to deal with it?

fastjson has `BrowserCompatible` configuration, after opening, all Chinese will be serialized to the format with `\uXXXX`.

```
String jsonString = JSON.toJSONString(obj,
    SerializerFeature.BrowserCompatible);
```

12. How fastjson handles oversized objects and oversized JSON text

fastjson offers Stream API: <https://github.com/alibaba/fastjson/wiki/Stream-api>

13. Use @JSONField to customize the serialization

fastjson offers Annotation to customize the serialize and deserialize:

<https://github.com/alibaba/fastjson/wiki/JSONField>

14. How does fastjson output the null value in the object

By default, fastjson does not output null values of objects. If you need to output values, see here

https://github.com/alibaba/fastjson/wiki/WriteNull_cn

15. How to deal with the precision loss when return large integer javascript

When the returned integer is greater than 9007199254740991 or less than -900719925474099, precision will be lost in javascript. To solve the precision problem, using SerializerFeature, BrowsersCompatible can automatically convert the value into a string.