



JSONGenerator Class

Contains methods used to serialize objects into JSON content using the standard JSON encoding.

Namespace

[System](#)

Usage

The `System.JSONGenerator` class is provided to enable the generation of standard JSON-encoded content and gives you more control on the structure of the JSON output.

See Also

- [Apex Developer Guide: JSON Generator](#)

JSONGenerator Methods

The following are methods for `JSONGenerator`. All are instance methods.

- [close\(\)](#)
Closes the JSON generator.
- [getAsString\(\)](#)
Returns the generated JSON content.
- [isClosed\(\)](#)
Returns `true` if the JSON generator is closed; otherwise, returns `false`.
- [writeBlob\(blobValue\)](#)
Writes the specified `blob` value as a base64-encoded string.
- [writeBlobField\(fieldName, blobValue\)](#)
Writes a field name and value pair using the specified field name and BLOB value.
- [writeBoolean\(blobValue\)](#)
Writes the specified Boolean value.
- [writeBooleanField\(fieldName, booleanValue\)](#)
Writes a field name and value pair using the specified field name and Boolean value.
- [writeDate\(dateValue\)](#)
Writes the specified date value in the ISO-8601 format.
- [writeDateField\(fieldName, dateValue\)](#)
Writes a field name and value pair using the specified field name and date value. The date value is written in the ISO-8601 format.
- [writeDateTime\(datetimeValue\)](#)
Writes the specified date and time value in the ISO-8601 format.
- [writeDateTimeField\(fieldName, datetimeValue\)](#)
Writes a field name and value pair using the specified field name and date and time value. The date and time value is written in the ISO-8601 format.
- [writeEndArray\(\)](#)
Writes the ending marker of a JSON array (']').



- **`writeId(identifier)`**
Writes the specified ID value.
- **`writeIdField(fieldName, identifier)`**
Writes a field name and value pair using the specified field name and identifier value.
- **`writeNull()`**
Writes the JSON null literal value.
- **`writeNullField(fieldName)`**
Writes a field name and value pair using the specified field name and the JSON null literal value.
- **`writeNumber(number)`**
Writes the specified decimal value.
- **`writeNumber(number)`**
Writes the specified double value.
- **`writeNumber(number)`**
Writes the specified integer value.
- **`writeNumber(number)`**
Writes the specified long value.
- **`writeNumberField(fieldName, number)`**
Writes a field name and value pair using the specified field name and decimal value.
- **`writeNumberField(fieldName, number)`**
Writes a field name and value pair using the specified field name and double value.
- **`writeNumberField(fieldName, number)`**
Writes a field name and value pair using the specified field name and integer value.
- **`writeNumberField(fieldName, number)`**
Writes a field name and value pair using the specified field name and long value.
- **`writeObject(anyObject)`**
Writes the specified Apex object in JSON format.
- **`writeObjectField(fieldName, value)`**
Writes a field name and value pair using the specified field name and Apex object.
- **`writeStartArray()`**
Writes the starting marker of a JSON array ('[').
- **`writeStartObject()`**
Writes the starting marker of a JSON object ('{').
- **`writeString(stringValue)`**
Writes the specified string value.
- **`writeStringField(fieldName, stringValue)`**
Writes a field name and value pair using the specified field name and string value.
- **`writeTime(timeValue)`**
Writes the specified time value in the ISO-8601 format.
- **`writeTimeField(fieldName, timeValue)`**
Writes a field name and value pair using the specified field name and time value in the ISO-8601 format.

`close()`

Closes the JSON generator.

Signature

```
public Void close()
```

Return Value

Type: Void



getAsString()

Returns the generated JSON content.

Signature

```
public String getAsString()
```

Return Value

Type: [String](#)

Usage

This method closes the JSON generator if it isn't closed already.

isClosed()

Returns `true` if the JSON generator is closed; otherwise, returns `false`.

Signature

```
public Boolean isClosed()
```

Return Value

Type: [Boolean](#)

writeBlob(blobValue)

Writes the specified `Blob` value as a base64-encoded string.

Signature

```
public Void writeBlob(Blob blobValue)
```

Parameters

blobValue

Type: [Blob](#)

Return Value

Type: `Void`

writeBlobField(fieldName, blobValue)

Writes a field name and value pair using the specified field name and BLOB value.

Signature

```
public Void writeBlobField(String fieldName, Blob blobValue)
```

Parameters

fieldName

Type: [String](#)

blobValue

Type: [Blob](#)

Return Value



writes the specified Boolean value.

Signature

```
public Void writeBoolean(Boolean blobValue)
```

Parameters

blobValue

Type: [Boolean](#)

Return Value

Type: Void

writeBooleanField(fieldName, booleanValue)

Writes a field name and value pair using the specified field name and Boolean value.

Signature

```
public Void writeBooleanField(String fieldName, Boolean booleanValue)
```

Parameters

fieldName

Type: [String](#)

booleanValue

Type: [Boolean](#)

Return Value

Type: Void

writeDate(dateValue)

Writes the specified date value in the ISO-8601 format.

Signature

```
public Void writeDate(Date dateValue)
```

Parameters

dateValue

Type: [Date](#)

Return Value

Type: Void

writeDateField(fieldName, dateValue)

Writes a field name and value pair using the specified field name and date value. The date value is written in the ISO-8601 format.

Signature

```
public Void writeDateField(String fieldName, Date dateValue)
```

Parameters



Type: [Date](#)

Return Value

Type: Void

writeDateTime(datetimeValue)

Writes the specified date and time value in the ISO-8601 format.

Signature

```
public Void writeDateTime(Datetime datetimeValue)
```

Parameters

datetimeValue

Type: [Datetime](#)

Return Value

Type: Void

writeDateTimeField(fieldName, datetimeValue)

Writes a field name and value pair using the specified field name and date and time value. The date and time value is written in the ISO-8601 format.

Signature

```
public Void writeDateTimeField(String fieldName, Datetime datetimeValue)
```

Parameters

fieldName

Type: [String](#)

datetimeValue

Type: [Datetime](#)

Return Value

Type: Void

writeEndArray()

Writes the ending marker of a JSON array (']').

Signature

```
public Void writeEndArray()
```

Return Value

Type: Void

writeEndObject()

Writes the ending marker of a JSON object ('}').

Signature



writeFieldName(fieldName)

Writes a field name.

Signature

```
public Void writeFieldName(String fieldName)
```

Parameters

fieldName

Type: [String](#)

Return Value

Type: Void

writeId(identifier)

Writes the specified ID value.

Signature

```
public Void writeId(ID identifier)
```

Parameters

identifier

Type: [ID](#)

Return Value

Type: Void

writeIdField(fieldName, identifier)

Writes a field name and value pair using the specified field name and identifier value.

Signature

```
public Void writeIdField(String fieldName, Id identifier)
```

Parameters

fieldName

Type: [String](#)

identifier

Type: [ID](#)

Return Value

Type: Void

writeNull()

Writes the JSON null literal value.

Signature

```
public Void writeNull()
```



writeNullField(fieldName)

Writes a field name and value pair using the specified field name and the JSON null literal value.

Signature

```
public Void writeNullField(String fieldName)
```

Parameters

fieldName

Type: [String](#)

Return Value

Type: Void

writeNumber(number)

Writes the specified decimal value.

Signature

```
public Void writeNumber(Decimal number)
```

Parameters

number

Type: [Decimal](#)

Return Value

Type: Void

writeNumber(number)

Writes the specified double value.

Signature

```
public Void writeNumber(Double number)
```

Parameters

number

Type: [Double](#)

Return Value

Type: Void

writeNumber(number)

Writes the specified integer value.

Signature

```
public Void writeNumber(Integer number)
```

Parameters

number

Type: [Integer](#)



writeNumber(number)

Writes the specified long value.

Signature

```
public Void writeNumber(Long number)
```

Parameters

number

Type: [Long](#)

Return Value

Type: Void

writeNumberField(fieldName, number)

Writes a field name and value pair using the specified field name and decimal value.

Signature

```
public Void writeNumberField(String fieldName, Decimal number)
```

Parameters

fieldName

Type: [String](#)

number

Type: [Decimal](#)

Return Value

Type: Void

writeNumberField(fieldName, number)

Writes a field name and value pair using the specified field name and double value.

Signature

```
public Void writeNumberField(String fieldName, Double number)
```

Parameters

fieldName

Type: [String](#)

number

Type: [Double](#)

Return Value

Type: Void

writeNumberField(fieldName, number)

Writes a field name and value pair using the specified field name and integer value.

Signature



Type: [String](#)

number

Type: [Integer](#)

Return Value

Type: Void

writeNumberField(fieldName, number)

Writes a field name and value pair using the specified field name and long value.

Signature

```
public Void writeNumberField(String fieldName, Long number)
```

Parameters

fieldName

Type: [String](#)

number

Type: [Long](#)

Return Value

Type: Void

writeObject(anyObject)

Writes the specified Apex object in JSON format.

Signature

```
public Void writeObject(Object anyObject)
```

Parameters

anyObject

Type: Object

Return Value

Type: Void

writeObjectField(fieldName, value)

Writes a field name and value pair using the specified field name and Apex object.

Signature

```
public Void writeObjectField(String fieldName, Object value)
```

Parameters

fieldName

Type: [String](#)

value

Type: Object



writeStartArray()

Writes the starting marker of a JSON array ('[').

Signature

```
public Void writeStartArray()
```

Return Value

Type: Void

writeStartObject()

Writes the starting marker of a JSON object ('{').

Signature

```
public Void writeStartObject()
```

Return Value

Type: Void

writeString(stringValue)

Writes the specified string value.

Signature

```
public Void writeString(String stringValue)
```

Parameters

stringValue

Type: [String](#)

Return Value

Type: Void

writeStringField(fieldName, stringValue)

Writes a field name and value pair using the specified field name and string value.

Signature

```
public Void writeStringField(String fieldName, String stringValue)
```

Parameters

fieldName

Type: [String](#)

stringValue

Type: [String](#)

Return Value

Type: Void

writeTime(timeValue)



Parameters

timeValue

Type: [Time](#)

Return Value

Type: Void

writeTimeField(fieldName, timeValue)

Writes a field name and value pair using the specified field name and time value in the ISO-8601 format.

Signature

```
public Void writeTimeField(String fieldName, Time timeValue)
```

Parameters

fieldName

Type: [String](#)

timeValue

Type: [Time](#)

Return Value

Type: Void

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