added in API level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

public class JSONObject

extends <u>Object</u> (https://developer.android.com/reference/java/lang/Object.html)

<u>java.lang.Object</u> (https://developer.android.com/reference/java/lang/Object.html)
<u>Graphics of the Company of the C</u>

A modifiable set of name/value mappings. Names are unique, non-null strings. Values may be any mix of <u>JSONObjects</u> (https://developer.android.com/reference/org/json/JSONObject.html), <u>JSONArrays</u> (https://developer.android.com/reference/org/json/JSONArray.html), Strings, Booleans, Integers, Longs, Doubles or <u>NULL</u>

(https://developer.android.com/reference/org/json/JSONObject.html#NULL). Values may not be null, NaNs (https://developer.android.com/reference/java/lang/Double.html#isNaN()), infinities (https://developer.android.com/reference/java/lang/Double.html#isInfinite()), or of any type not listed here.

This class can coerce values to another type when requested.

be, and then cast to int.

- When the requested type is a boolean, strings will be coerced using a case-insensitive comparison to "true" and "false".
- When the requested type is a double, other <u>Number</u>
 (https://developer.android.com/reference/java/lang/Number.html) types will be coerced using <u>doubleValue</u>
 - (https://developer.android.com/reference/java/lang/Number.html#doubleValue()). Strings that can be coerced using Double.value0f(String))
 - (https://developer.android.com/reference/java/lang/Double.html#valueOf(java.lang.String)) will be.
- When the requested type is an int, other <u>Number</u>
 (https://developer.android.com/reference/java/lang/Number.html) types will be coerced
 using <u>intValue</u> (https://developer.android.com/reference/java/lang/Number.html#intValue()).
 Strings that can be coerced using <u>Double.valueOf(String)</u>
 (https://developer.android.com/reference/java/lang/Double.html#valueOf(java.lang.String)) will
- When the requested type is a long, other <u>Number</u>
 (https://developer.android.com/reference/java/lang/Number.html) types will be coerced using <u>longValue</u>
 (https://developer.android.com/reference/java/lang/Number.html#longValue()). Strings that

can be coerced using Double.valueOf(String))

(https://developer.android.com/reference/java/lang/Double.html#valueOf(java.lang.String)) will be, and then cast to long. This two-step conversion is lossy for very large values. For example, the string "9223372036854775806" yields the long 9223372036854775807.

 When the requested type is a String, other non-null values will be coerced using <u>String.valueOf(Object)</u>

(https://developer.android.com/reference/java/lang/String.html#valueOf(java.lang.Object)).
Although null cannot be coerced, the sentinel value MULL

(https://developer.android.com/reference/org/json/JSONObject.html#NULL) is coerced to the string "null".

This class can look up both mandatory and optional values:

- Use get Type() to retrieve a mandatory value. This fails with a JSONException if the requested name has no value or if the value cannot be coerced to the requested type.
- Use opt Type() to retrieve an optional value. This returns a system- or user-supplied default if the requested name has no value or if the value cannot be coerced to the requested type.

Warning: this class represents null in two incompatible ways: the standard Java null reference, and the sentinel value <u>NULL</u>

(https://developer.android.com/reference/org/json/JSONObject.html#NULL). In particular, calling put(name, null) removes the named entry from the object but put(name, JSONObject.NULL) stores an entry whose value is JSONObject.NULL.

Instances of this class are not thread safe. Although this class is nonfinal, it was not designed for inheritance and should not be subclassed. In particular, self-use by overrideable methods is not specified. See *Effective Java* Item 17, "Design and Document or inheritance or else prohibit it" for further information.

Summary

Fields

public static final $\underline{\text{NULL}}$

<u>Object</u> (https://developer.android.com/reference/org/json/JSONObject.html

(https://developer.android.com/re#NULL)

ference/java/lang/Object.html)

A sentinel value used to explicitly define a name with no value.

Public constructors

<u>JSONObject</u> (https://developer.android.com/reference/org/json/JSONObject.html#JSONObject()) ()

Creates a JSONObject with no name/value mappings.

JS0N0bject

(https://developer.android.com/reference/org/json/JSONObject.html#JSONObject(java.util.Map)) (Map (https://developer.android.com/reference/java/util/Map.html) copyFrom)

Creates a new JSONObject by copying all name/value mappings from the given map.

<u>JSONObject</u>

(https://developer.android.com/reference/org/json/JSONObject.html#JSONObject(org.json.JSONTokener))

(<u>JSONTokener</u> (https://developer.android.com/reference/org/json/JSONTokener.html) readFrom)

Creates a new JSONObject with name/value mappings from the next object in the tokener.

JS0N0bject

(https://developer.android.com/reference/org/json/JSONObject.html#JSONObject(java.lang.String)) (<u>String</u> (https://developer.android.com/reference/java/lang/String.html) json)

Creates a new JSONObject with name/value mappings from the JSON string.

JS0N0bject

(https://developer.android.com/reference/org/json/JSONObject.html#JSONObject(org.json.JSONObject,%20java.lang.String[]))

 $(\underline{\texttt{JSONObject}} \ (\text{https://developer.android.com/reference/org/json/JSONObject.html}) \ \ \textbf{copyFrom,} \\ \underline{\texttt{String[]}} \ (\text{https://developer.android.com/reference/java/lang/String.html}) \ \ \textbf{names})$

Creates a new JSONObject by copying mappings for the listed names from the given object.

Public methods

<u>JSONObject</u> (https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/org/json/JSONObject.ht #accumulate(java.lang.String,%20java.lang.Object)) ml) (<u>String</u>

(https://developer.android.com/reference/java/lang/String.html)

name, <u>Object</u>

(https://developer.android.com/reference/java/lang/Object.html)

value)

Appends **value** to the array already mapped to **name**.

<u>Object</u> <u>get</u>

(https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/java/lang/Object.html) #get(java.lang.String))

(String

(https://developer.android.com/reference/java/lang/String.html) name)

Returns the value mapped by **name**, or throws if no such mapping exists.

boolean

getBoolean

(https://developer.android.com/reference/org/json/JSONObject.html #getBoolean(java.lang.String))

(String

(https://developer.android.com/reference/java/lang/String.html) name)

Returns the value mapped by **name** if it exists and is a boolean or can be coerced to a boolean, or throws otherwise.

double

<u>getDouble</u>

(https://developer.android.com/reference/org/json/JSONObject.html #getDouble(java.lang.String))

(String

(https://developer.android.com/reference/java/lang/String.html) name)

Returns the value mapped by **name** if it exists and is a double or can be coerced to a double, or throws otherwise.

int

<u>getInt</u>

(https://developer.android.com/reference/org/json/JSONObject.html #getInt(java.lang.String))

(String

(https://developer.android.com/reference/java/lang/String.html) name)

Returns the value mapped by **name** if it exists and is an int or can be coerced to an int, or throws otherwise.

JSONArray

<u>getJSONArray</u>

(https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/org/json/JSONArray.html #getJSONArray(java.lang.String))

(<u>String</u>

(https://developer.android.com/reference/java/lang/String.html) name)

Returns the value mapped by **name** if it exists and is a **JSONArray**, or throws otherwise.

JS0N0bject

getJS0N0bject

ml)

)

(String

(https://developer.android.com/reference/java/lang/String.html) name) Returns the value mapped by name if it exists and is a JSONObject, or throws otherwise. getLong long (https://developer.android.com/reference/org/json/JSONObject.html #getLong(java.lang.String)) (String (https://developer.android.com/reference/java/lang/String.html) name) Returns the value mapped by name if it exists and is a long or can be coerced to a long, or throws otherwise. **String** <u>getString</u> (https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/java/lang/String.html) #getString(java.lang.String)) (String (https://developer.android.com/reference/java/lang/String.html) name) Returns the value mapped by name if it exists, coercing it if necessary, or throws if no such mapping exists. boolean has (https://developer.android.com/reference/org/json/JSONObject.html #has(java.lang.String)) (String (https://developer.android.com/reference/java/lang/String.html) name) Returns true if this object has a mapping for name. boolean <u>isNull</u> (https://developer.android.com/reference/org/json/JSONObject.html #isNull(java.lang.String)) (String (https://developer.android.com/reference/java/lang/String.html) name) Returns true if this object has no mapping for name or if it has a mapping whose value is **NULL** (https://developer.android.com/reference/org/json/JSONObject.html #NULL)

<u>keys</u>

Iterator

(https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/java/util/Iterator.html) #keys()) <String () (https://developer.android.com/re Returns an iterator of the **String** names in this object. ference/java/lang/String.html) int <u>length</u> (https://developer.android.com/reference/org/json/JSONObject.html #length()) () Returns the number of name/value mappings in this object. <u>JSONArray</u> names (https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/org/json/JSONArray.html #names()) () Returns an array containing the string names in this object. static String <u>numberToString</u> (https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/java/lang/String.html) #numberToString(java.lang.Number)) (Number (https://developer.android.com/reference/java/lang/Number.html) number) Encodes the number as a JSON string. <u>Object</u> (https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/java/lang/Object.html) #opt(java.lang.String)) (String (https://developer.android.com/reference/java/lang/String.html) name) Returns the value mapped by **name**, or null if no such mapping exists. boolean <u>optBoole</u>an (https://developer.android.com/reference/org/json/JSONObject.html #optBoolean(java.lang.String,%20boolean)) (https://developer.android.com/reference/java/lang/String.html) name, boolean fallback) Returns the value mapped by name if it exists and is a boolean or can be coerced to a boolean, or fallback otherwise.

<u>optBoolean</u>

boolean

(https://developer.android.com/reference/org/json/JSONObject.html #optBoolean(java.lang.String))

(String

(https://developer.android.com/reference/java/lang/String.html) name)

Returns the value mapped by **name** if it exists and is a boolean or can be coerced to a boolean, or false otherwise.

double

optDouble

(https://developer.android.com/reference/org/json/JSONObject.html #optDouble(java.lang.String,%20double))

(String

(https://developer.android.com/reference/java/lang/String.html)
name, double fallback)

Returns the value mapped by **name** if it exists and is a double or can be coerced to a double, or **fallback** otherwise.

double

<u>optDouble</u>

(https://developer.android.com/reference/org/json/JSONObject.html #optDouble(java.lang.String))

(String

(https://developer.android.com/reference/java/lang/String.html) name)

Returns the value mapped by **name** if it exists and is a double or can be coerced to a double, or **NaN** otherwise.

int

<u>optInt</u>

(https://developer.android.com/reference/org/json/JSONObject.html #optInt(java.lang.String,%20int))

(String

(https://developer.android.com/reference/java/lang/String.html)
name, int fallback)

Returns the value mapped by **name** if it exists and is an int or can be coerced to an int, or **fallback** otherwise.

int

<u>optInt</u>

(https://developer.android.com/reference/org/json/JSONObject.html #optInt(java.lang.String))

(String

(https://developer.android.com/reference/java/lang/String.html) name)

Returns the value mapped by **name** if it exists and is an int or can be coerced to an int, or 0 otherwise.

JS0NArray

<u>optJSONArray</u>

(https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/org/json/JSONArray.html #optJSONArray(java.lang.String))

(String

(https://developer.android.com/reference/java/lang/String.html)

name)

Returns the value mapped by name if it exists and is a JSONArray, or null otherwise.

JS0N0bject

optJS0N0bject

(https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/org/json/JSONObject.ht #optJSONObject(java.lang.String))

ml)

)

(String

(https://developer.android.com/reference/java/lang/String.html)

name)

Returns the value mapped by name if it exists and is a JSONObject, or null otherwise.

long

<u>optLong</u>

(https://developer.android.com/reference/org/json/JSONObject.html #optLong(java.lang.String))

(String

(https://developer.android.com/reference/java/lang/String.html)

name)

Returns the value mapped by **name** if it exists and is a long or can be coerced to a long, or 0 otherwise.

long

<u>optLong</u>

(https://developer.android.com/reference/org/json/JSONObject.html #optLong(java.lang.String,%20long))

(String

(https://developer.android.com/reference/java/lang/String.html)

name, long fallback)

Returns the value mapped by **name** if it exists and is a long or can be coerced to a long, or fallback otherwise.

String

<u>optString</u>

ference/java/lang/String.html)

(https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html #optString(java.lang.String,%20java.lang.String))

(String

(https://developer.android.com/reference/java/lang/String.html)

name, String

(https://developer.android.com/reference/java/lang/String.html)

fallback)

Returns the value mapped by name if it exists, coercing it if necessary, or fallback if no such mapping exists.

String

optString

(https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/java/lang/String.html) #optString(java.lang.String))

(String

(https://developer.android.com/reference/java/lang/String.html)

name)

Returns the value mapped by **name** if it exists, coercing it if necessary, or the empty string if no such mapping exists.

JS0N0bject

put

(https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/org/json/JSONObject.ht #put(java.lang.String,%20double))

ml) (<u>String</u>

(https://developer.android.com/reference/java/lang/String.html)

name, double value)

Maps **name** to **value**, clobbering any existing name/value mapping with the same name.

<u>JSONObject</u>

put

(https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/org/json/JSONObject.ht #put(java.lang.String,%20boolean))

ml)

(String

(https://developer.android.com/reference/java/lang/String.html)

name, boolean value)

Maps **name** to **value**, clobbering any existing name/value mapping with the same name.

JS0N0bject

<u>put</u>

(https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/org/json/JSONObject.ht #put(java.lang.String,%20int))

ml)

(String

(https://developer.android.com/reference/java/lang/String.html)

name, int value)

Maps **name** to **value**, clobbering any existing name/value mapping with the same name.

JS0N0bject

put

(https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/org/json/JSONObject.ht #put(java.lang.String,%20long))

ml)

(String

(https://developer.android.com/reference/java/lang/String.html)

name, long value)

Maps **name** to **value**, clobbering any existing name/value mapping with the same name.

JS0N0bject

ml)

<u>put</u>

(String

(https://developer.android.com/reference/java/lang/String.html)

name, <u>Object</u>

(https://developer.android.com/reference/java/lang/Object.html)

value)

Maps **name** to **value**, clobbering any existing name/value mapping with the same name.

JS0N0bject

ml)

put0pt

(https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/org/json/JSONObject.ht #putOpt(java.lang.String,%20java.lang.Object))

(String

(https://developer.android.com/reference/java/lang/String.html)

name, Object

(https://developer.android.com/reference/java/lang/Object.html)

value)

Equivalent to **put(name, value)** when both parameters are non-null; does nothing otherwise.

static String

<u>quote</u>

(https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/java/lang/String.html) #quote(java.lang.String))

(String

(https://developer.android.com/reference/java/lang/String.html)

data)

Encodes data as a JSON string.

<u>Object</u>

remove

(https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/java/lang/Object.html) #remove(java.lang.String))

(String

(https://developer.android.com/reference/java/lang/String.html)

name)

Removes the named mapping if it exists; does nothing otherwise.

JSONArray

)

toJS0NArray

(https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/org/json/JSONArray.html #toJSONArray(org.json.JSONArray))

(<u>JSONArray</u>

(https://developer.android.com/reference/org/json/JSONArray.html)

names)

Returns an array with the values corresponding to names.

```
<u>String</u>
```

toString

()

Encodes this object as a compact JSON string, such as:

```
{"query":"Pizza","locations":[94043,90210]}
```

<u>String</u>

toString

(https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/java/lang/String.html) #toString(int))

(int indentSpaces)

Encodes this object as a human readable JSON string for debugging, such as:

```
{
    "query": "Pizza",
    "locations": [
        94043,
        90210
    ]
}
```

static Object

wrap

(https://developer.android.com/re (https://developer.android.com/reference/org/json/JSONObject.html ference/java/lang/Object.html) #wrap(java.lang.Object))

(Object

(https://developer.android.com/reference/java/lang/Object.html) o)

Wraps the given object if necessary.

Inherited methods

From class <u>java.lang.Object</u> (https://developer.android.com/reference/java/lang/Object.html)

<u>Object</u> (https://developer.android.com/reference/java/lang/Object.html)

<u>clone</u>

(https://deve /reference/ja ml#clone())

0

()

Creates and r this object.

boolean <u>equals</u>

	(https://developerence/java/luals(java.lang. (<u>Object</u> (https://developerence/java/lobj)
	Indicates whe
void	finalize (https://devel ference/java/l alize()) ()
	Called by the can object whe determines the references to
final <u>Class</u> (https://developer.android.com/reference/java/lang/Class.html)	getClass (https://devel ference/java/l tClass()) ()
	Returns the ru Object.
int	hashCode (https://devel ference/java/ shCode()) ()
	Returns a has object.
final void	notify (https://devel ference/java/ tify()) ()
	Wakes up a si
final void	notifyAll

	(https://develc ference/java/la tifyAll()) ()
	Wakes up all the waiting on this
String (https://developer.android.com/reference/java/lang/String.html)	toString (https://develo ference/java/la String()) ()
	Returns a strin- the object.
final void	wait (https://develous ference/java/latit ait(long,%20int (long milli)) Causes the curuntil another the notify() (https://develous ference/java/latify()) method or the (https://develous ference/java/latifyAll()) method for this other thread in thread, or a certime has elaps
final void	wait (https://develo ference/java/la ait(long)) (long milli
	Causes the cur until either ano

the <u>notify()</u> (https://develc ference/java/la

tify())

method or the (https://develoference/java/latifyAll()) method for this specified amoulelapsed.

final void

wait (https://deve /reference/ja ml#wait())

()

Causes the ci wait until ano invokes the <u>n</u> (https://deve /reference/ja' ml#notify()) method or the (https://deve /reference/ja' ml#notifyAll() method for th

Fields

API level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

A sentinel value used to explicitly define a name with no value. Unlike null, names with this value:

- show up in the <u>names()</u>
 (https://developer.android.com/reference/org/json/JSONObject.html#names()) array
- show up in the <u>keys()</u>
 (https://developer.android.com/reference/org/json/JSONObject.html#keys()) iterator
- return true for <u>has(String)</u>
 (https://developer.android.com/reference/org/json/JSONObject.html#has(java.lang.String))

- do not throw on <u>get(String)</u>
 (https://developer.android.com/reference/org/json/JSONObject.html#get(java.lang.String))
- are included in the encoded JSON string.

This value violates the general contract of Object. equals(Object)

(https://developer.android.com/reference/java/lang/Object.html#equals(java.lang.Object)) by returning true when compared to null. Its toString()

(https://developer.android.com/reference/org/json/JSONObject.html#toString()) method returns "null".

Public constructors

JEGN Object 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Creates a JSONObject with no name/value mappings.

JSQNQbject1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Creates a new JSONObject by copying all name/value mappings from the given map.

Parameters

copyFrom

Map: a map whose keys are of type <u>String</u>

(https://doveloper.ordroid.com/reference/joya/l

(https://developer.android.com/reference/java/lang/String.html) and whose values are of supported types.

Throws

<u>NullPointerException</u>

if any of the map's keys are null.

(https://developer.android.com/re ference/java/lang/NullPointerExc eption.html)

JSQNQbject1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Creates a new JSONObject with name/value mappings from the next object in the tokener.

Parameters

readFrom

 $\textbf{JSONTokener:} \ a \ tokener \ whose \ nextValue() \ method \ will \ yield \ a$

JSONObject.

Throws

JSONException

if the parse fails or doesn't yield a JSONObject.

(https://developer.android.com/re ference/org/json/JSONException. html)

JSQNQbject1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Creates a new JSONObject with name/value mappings from the JSON string.

Parameters

json

String: a JSON-encoded string containing an object.

Throws

JSONException

if the parse fails or doesn't yield a JSONObject.

(https://developer.android.com/re ference/org/json/JSONException. html)

JSONObject

added in API level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Creates a new JSONObject by copying mappings for the listed names from the given object. Names that aren't present in copyFrom will be skipped.

Parameters

copyFrom	JS0N0bject
names	String

Throws

JSONException

(https://developer.android.com/re ference/org/json/JSONException. html)

Public methods

ageum<u>ulate 1</u>

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Appends value to the array already mapped to name. If this object has no mapping for name, this inserts a new mapping. If the mapping exists but its value is not an array, the existing and new values are inserted in order into a new array which is itself mapped to name. In aggregate, this allows values to be added to a mapping one at a time.

Note that append(String, Object) provides better semantics. In particular, the mapping for name will always be a <u>JSONArray</u>

(https://developer.android.com/reference/org/json/JSONArray.html). Using accumulate will result in either a <u>JSONArray</u> (https://developer.android.com/reference/org/json/JSONArray.html) or a mapping whose type is the type of value depending on the number of calls to it.

Parameters

name	String
value	Object: a <u>JSONObject</u>
	<pre>(https://developer.android.com/reference/org/json/JSONObject.html) , JSONArray</pre>
	(https://developer.android.com/reference/org/json/JSONArray.html), String, Boolean, Integer, Long, Double, <u>NULL</u>
	(https://developer.android.com/reference/org/json/JSONObject.html #NULL)
	or null. May not be <u>NaNs</u>
	(https://developer.android.com/reference/java/lang/Double.html#isNaN())
	or <u>infinities</u>
	(https://developer.android.com/reference/java/lang/Double.html#isInfinite())

Returns

JS0N0bject

(https://developer.android.com/re ference/org/json/JSONObject.ht ml)

Throws

JSONException

(https://developer.android.com/re ference/org/json/JSONException. html)

∯dtd in <u>API level 1</u>

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the value mapped by name, or throws if no such mapping exists.

Parameters

name String

Returns

<u>Object</u>

(https://developer.android.com/re ference/java/lang/Object.html)

Throws

JSONException

if no such mapping exists.

(https://developer.android.com/re ference/org/json/JSONException. html)

getBoolean 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the value mapped by name if it exists and is a boolean or can be coerced to a boolean, or throws otherwise.

Parameters

name String

Returns

boolean

Throws

JSONException

if the mapping doesn't exist or cannot be coerced to a boolean.

(https://developer.android.com/re ference/org/json/JSONException. html)

getDouble

publicin Atoublei getDouble (String (https://developer.android.com/reference/java/lang/String.htn (https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the value mapped by name if it exists and is a double or can be coerced to a double, or throws otherwise.

Parameters	
name	String
Returns	
double	
Throws	
JSONException (https://developer.android.co ference/org/json/JSONExce html)	
getinit API level 1 (https://developer.android.co	om/guide/topics/manifest/uses-sdk-element.html#ApiLevels)
Returns the value mappe throws otherwise.	d by name if it exists and is an int or can be coerced to an int, or
Parameters	
name	String
Returns	
int	
Throws	

JSONException

if the mapping doesn't exist or cannot be coerced to an int.

(https://developer.android.com/re ference/org/json/JSONException. html)

gotd SQNAgray

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the value mapped by name if it exists and is a JSONArray, or throws otherwise.

Parameters

name

String

Returns

<u>JSONArray</u>

(https://developer.android.com/re ference/org/json/JSONArray.html)

Throws

JSONException

if the mapping doesn't exist or is not a JSONArray.

(https://developer.android.com/re ference/org/json/JSONException. html)

getJSONObject

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the value mapped by name if it exists and is a JSONObject, or throws otherwise.

Parameters

name

String

Returns

JS0N0bject

(https://developer.android.com/re ference/org/json/JSONObject.ht ml)

Throws

JSONException

if the mapping doesn't exist or is not a JSONObject.

(https://developer.android.com/re ference/org/json/JSONException. html)

gettong level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the value mapped by name if it exists and is a long or can be coerced to a long, or throws otherwise. Note that JSON represents numbers as doubles, so this is <u>lossy</u> (#lossy); use strings to transfer numbers via JSON.

Parameters

name String

Returns

long

Throws

JSONException

if the mapping doesn't exist or cannot be coerced to a long.

(https://developer.android.com/re ference/org/json/JSONException. html)

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(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the value mapped by name if it exists, coercing it if necessary, or throws if no such mapping exists.

Parameters

name

String

Returns

String

(https://developer.android.com/re ference/java/lang/String.html)

Throws

JSONException

if no such mapping exists.

(https://developer.android.com/re ference/org/json/JSONException. html)

Masd in API level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns true if this object has a mapping for name. The mapping may be <u>NULL</u> (https://developer.android.com/reference/org/json/JSONObject.html#NULL).

Parameters

name

String

Returns

boolean

API level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns true if this object has no mapping for name or if it has a mapping whose value is <u>NULL</u> (https://developer.android.com/reference/org/json/JSONObject.html#NULL).

Parameters

name String

Returns

boolean

Sin API level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns an iterator of the String names in this object. The returned iterator supports remove (https://developer.android.com/reference/java/util/Iterator.html#remove()), which will remove the corresponding mapping from this object. If this object is modified after the iterator is returned, the iterator's behavior is undefined. The order of the keys is undefined.

Returns

Iterator

(https://developer.android.com/re ference/java/util/Iterator.html)

<String

(https://developer.android.com/re ference/java/lang/String.html)

>

Leaning th API level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the number of name/value mappings in this object.

Returns

int

AM SAPI level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns an array containing the string names in this object. This method returns null if this object contains no mappings.

Returns

<u>JSONArray</u>

(https://developer.android.com/re ference/org/json/JSONArray.html)

aumberToString

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Encodes the number as a JSON string.

Parameters

number

Number: a finite value. May not be NaNs

(https://developer.android.com/reference/java/lang/Double.html#isNaN())

or **infinities**

(https://developer.android.com/reference/java/lang/Double.html#isIn finite())

•

Returns

String

(https://developer.android.com/re ference/java/lang/String.html)

Throws

JSONException

(https://developer.android.com/re ference/org/json/JSONException. html)

⊋atd in <u>API level 1</u>

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the value mapped by name, or null if no such mapping exists.

Parameters

name

String

Returns

<u>Object</u>

(https://developer.android.com/re ference/java/lang/Object.html)

aptBioahean 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the value mapped by name if it exists and is a boolean or can be coerced to a boolean, or fallback otherwise.

Parameters

name

String

fallback	boolean
Returns	
boolean	

aptBioarlan 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the value mapped by name if it exists and is a boolean or can be coerced to a boolean, or false otherwise.

Parameters

- arametere			
name	String		
Returns			
boolean			

aptDioublevel 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the value mapped by name if it exists and is a double or can be coerced to a double, or fallback otherwise.

Parameters

name	String	
fallback	double	

Returns	
double	
മെ ൂ മില്ലം 1	
-	id.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)
Returns the value ma or NaN otherwise.	oped by name if it exists and is a double or can be coerced to a double,
Parameters	
name	String
Returns	
double	
sptint API level 1	
	id.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)
	oped by name if it exists and is an int or can be coerced to an int, or
fallback otherwise.	
Parameters	
name	String
fallback	int

Returns

ക	tlnt	ΔΡΙ	level	1
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(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the value mapped by name if it exists and is an int or can be coerced to an int, or 0 otherwise.

Parameters		
name	String	
Returns		
int		

eptdS@NAeray

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the value mapped by name if it exists and is a JSONArray, or null otherwise.

Parameters

name String

Returns

<u>JSONArray</u>

(https://developer.android.com/re ference/org/json/JSONArray.html

aptdS@NObject

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the value mapped by name if it exists and is a JSONObject, or null otherwise.

Parameters

name

String

Returns

JS0N0bject

(https://developer.android.com/re ference/org/json/JSONObject.ht ml)

Sptt Grag level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the value mapped by name if it exists and is a long or can be coerced to a long, or 0 otherwise. Note that JSON represents numbers as doubles, so this is <u>lossy</u> (#lossy); use strings to transfer numbers via JSON.

Parameters

name

String

Returns

long

aptlag level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

public long optLong (<u>String</u>(https://developer.android.com/reference/java/lang/String.html) na long fallback)

Returns the value mapped by name if it exists and is a long or can be coerced to a long, or fallback otherwise. Note that JSON represents numbers as doubles, so this is <u>lossy</u> (#lossy); use strings to transfer numbers via JSON.

Parameters

name	String	
fallback	long	
Returns		
long		

spatSitringevel 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the value mapped by name if it exists, coercing it if necessary, or fallback if no such mapping exists.

Parameters

name	String
fallback	String

Returns

String

(https://developer.android.com/re ference/java/lang/String.html)

aptSitringevel 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the value mapped by name if it exists, coercing it if necessary, or the empty string if no such mapping exists.

Parameters

name	String

Returns

String

(https://developer.android.com/re ference/java/lang/String.html)

Dided in API level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Maps name to value, clobbering any existing name/value mapping with the same name.

Parameters

name	String
value	double: a finite value. May not be <u>NaNs</u>
	(https://developer.android.com/reference/java/lang/Double.html#isN
	aN())
	or <u>infinities</u>
	(https://developer.android.com/reference/java/lang/Double.html#isIn
	finite())

Returns

<u>JSONObject</u>	this object.
-------------------	--------------

(https://developer.android.com/re ference/org/json/JSONObject.ht ml)

Throws

JSONException

(https://developer.android.com/re ference/org/json/JSONException. html)

Dided in API level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Maps name to value, clobbering any existing name/value mapping with the same name.

Parameters

name	String
value	boolean

Returns

JS0N0bject

this object.

(https://developer.android.com/re ference/org/json/JSONObject.ht ml)

Throws

JSONException

(https://developer.android.com/re ference/org/json/JSONException. html)

Dided in API level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Maps name to value, clobbering any existing name/value mapping with the same name.

Parameters

name	String
value	int

Returns

JS0N0bject

this object.

(https://developer.android.com/re ference/org/json/JSONObject.ht ml)

Throws

JSONException

(https://developer.android.com/re ference/org/json/JSONException. html)

Dided in API level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Maps name to value, clobbering any existing name/value mapping with the same name.

Parameters

name	String	
value	long	

Returns

<u>JSONObject</u>

this object.

(https://developer.android.com/re ference/org/json/JSONObject.ht ml)

Throws

JSONException

(https://developer.android.com/re ference/org/json/JSONException. html)

Dided in <u>API level 1</u>

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Maps name to value, clobbering any existing name/value mapping with the same name. If the value is null, any existing mapping for name is removed.

Parameters

name	String
value	Object: a <u>JSONObject</u>
	(https://developer.android.com/reference/org/json/JSONObject.html)
	, <u>JSONArray</u>
	(https://developer.android.com/reference/org/json/JSONArray.html),
	String, Boolean, Integer, Long, Double, <u>NULL</u>
	(https://developer.android.com/reference/org/json/JSONObject.html #NULL)
	, or null. May not be <u>NaNs</u>
	(https://developer.android.com/reference/java/lang/Double.html#isNaN())
	or <u>infinities</u>
	(https://developer.android.com/reference/java/lang/Double.html#isInfinite())

Returns

JS0N0bject

this object.

(https://developer.android.com/re ference/org/json/JSONObject.ht ml)

Throws

JSONException

(https://developer.android.com/re ference/org/json/JSONException. html)

put Dip API level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Equivalent to put(name, value) when both parameters are non-null; does nothing otherwise.

Parameters

name	String
value	Object

Returns

JS0N0bject

(https://developer.android.com/re ference/org/json/JSONObject.ht ml)

Throws

JSONException

(https://developer.android.com/re
ference/org/json/JSONException.
html)

API level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Encodes data as a JSON string. This applies quotes and any necessary character escaping.

Parameters

data

String: the string to encode. Null will be interpreted as an empty string.

Returns

<u>String</u>

(https://developer.android.com/re ference/java/lang/String.html)

ECHRICAL PI level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Removes the named mapping if it exists; does nothing otherwise.

Parameters

name String

Returns

<u>Object</u> the value previously mapped by **name**, or null if there was no such (https://developer.android.com/remapping. ference/java/lang/Object.html)

tous of Marray

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns an array with the values corresponding to names. The array contains null for names that aren't mapped. This method returns null if names is either null or empty.

Parameters

names

JSONArray

Returns

JSONArray

(https://developer.android.com/re ference/org/json/JSONArray.html

Throws

JSONException

(https://developer.android.com/re ference/org/json/JSONException. html)

to String level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Encodes this object as a compact JSON string, such as:

```
{"query": "Pizza", "locations": [94043,90210]}
```

0

Returns

<u>String</u>

a string representation of the object.

(https://developer.android.com/re ference/java/lang/String.html)

to String level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Encodes this object as a human readable JSON string for debugging, such as:

```
"query": "Pizza",
   "locations": [
      94043,
      90210
]
```

Parameters

indentSpaces

int: the number of spaces to indent for each level of nesting.

Returns

String

(https://developer.android.com/re ference/java/lang/String.html)

Throws

JSONException

(https://developer.android.com/re ference/org/json/JSONException. html)

MIII API level 19

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Wraps the given object if necessary.

If the object is null or , returns NULL

(https://developer.android.com/reference/org/json/JSONObject.html#NULL). If the object is a JSONArray or JSONObject, no wrapping is necessary. If the object is NULL, no wrapping is

necessary. If the object is an array or Collection, returns an equivalent JSONArray. If the object is a Map, returns an equivalent JSONObject. If the object is a primitive wrapper type or String, returns the object. Otherwise if the object is from a java package, returns the result of toString. If wrapping fails, returns null.

Parameters

0

Object

Returns

<u>Object</u>

(https://developer.android.com/re ference/java/lang/Object.html)

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