

Passing a JavaScript object using addJavascriptInterface() on Android

Ask Question

Is it possible to pass a JavaScript object from JavaScript to Java using addJavascriptInterface()? Something along these lines:

var javaScriptObject = {"field1":"string1", "field2":"string2"};
JavaScriptInterface.passObject(javaScriptObject);

 \star

How would such a call be captured on the Java side? I have no problem setting up the interface to send a string, but when I send an object, I receive null on the Java end.

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asked Feb 12 '10 at 9:56

pheelicks
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5 Answers

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AFAIK, addJavascriptInterface() only works with primitive types and Strings, and so you cannot pass arbitrary Javascript objects.

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answered Feb 12 '10 at 12:16

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CommonsWare 644k • 102 • 1557 • 1605

4 @Robert Siemer: Use JSON, then. - CommonsWare Jul 23 '11 at 21:47

4 Does anybody know if there is actually any documentation on exactly what can be taken as parameters and what can be returned from a method which is part of the injected java object? – Wayne Uroda May 21 '13 at 4:07

4 What madness... - Wayne Uroda May 21 '13 at 5:12

3 From my tests, you can pass any primitive, string, of array of those. in case of polymorphism, though, it appears that the method that accepts float has priority (probably a matter of ordering the methods). I'll post something about that when I have investigated further – njzk2 Sep 3 '13 at 10:16

1 serialize javascript object to json string and then pass that string to the android interface. now deserialize this json string in java to a java object. – Gurpreet Jul 7 '15 at 14:15

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I found a solution, using JSON. My Java method returns a JSONArray, on my javascript code I receive this and convert to a javascript vector using JSON.parse(). See the example:

asked 7 years, 3 months ago

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active 1 year, 8 months ago

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Java:

```
public class JavaScriptInterface {
Context mContext;
private static int ind=-1;
private static int [] val = { 25, 25, 50, 30, 40, 30, 30, 5, 9 };
public JavaScriptInterface(Context c) {
   mContext = c;
@JavascriptInterface
public JSONArray getChartData() {
   " {name: 'valor3', 2007: "+val[(++ind)%9]+"} ]";
   JSONArray jsonar=null;
   try {
       jsonar = new JSONArray(texto);
   } catch (JSONException e) {
      e.printStackTrace();
   return jsonar;
```

Now the javascript code:

The commented code above show how it was when static, and now the data came from the Java code.

It was testes on Android 2.1 and 3.2.

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edited Apr 30 '14 at 13:09

James Kidd
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answered Jun 5 '12 at 4:47

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This is how I am doing...



In Android...



In JavaScript...

```
var obj = { Name : 'Tejasvi', Age: 100};
var str = JSON.stringify(obj);
Android.getJSONTData(str);
```

As of now, I could not find any other proper way to pass the native JavaScript object directly to JavascriptInterface.

Calling Android.getJSONTData({ Name : 'Tejasvi', Age: 100}) results in null (if parameter type is Object) Or undefined (if parameter type is defined as String) in getJSONTData.

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answered Sep 21 '15 at 14:55



Tejasvi Hegde

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I think you can also pass JSONObject and JSONArray. So not only primitive types, but also primitive types stored in a javascript array [0,1,2] or dictionary {one:1, two:2}.

I have NOT verified this in code, just read the docs. Might be using it soon.

7553

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2 Where are the docs? There's only a tiny section devoted to it in WebView's documentation. – lan Kershaw Jun 21 '11 at 11:56

Can someone confirm this? - Robert Siemer Jul 23 '11 at 21:41 🖋

I can confirm this, but in JS space, it is not a real Javascript array. You'll get an object with methods like length() and get(), I could only use the specific get()s like getInt(). Basically I'm pretty sure you get everything here: json.org/javadoc/org/json/JSONArray.html — Caleb Hearon May 31 '12 at 20:23

@lanKershaw It works returning JSONArray. See my answer. - Derzu Jun 5 '12 at 4:49

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You can't pass JSONObject or JSONArray, but you can send strings with that form and parse them to those types.

Your option is to expose the method using strings and then you can use the JSONObject or JSONArray to parse the string and use it accordingly.

Here is what I did.

```
@JavascriptInterface
public void passJSON(String array, String jsonObj) throws JSONException
{
    JSONArray myArray = new JSONArray(array);
    JSONObject myObj = new JSONObject(jsonObj);
    ...
}
```

where array is '["string1","string2"]' and jsonObj is '{attr:1, attr2:"myName"}'

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edited Aug 7 '15 at 10:46

night Se

16.1k • 11 • 80 • 102

SergioM 431 • 1 • 7 • 22

answered Aug 19 '14 at 4:53

This could be good answer if example and was clear and complete - Tejasvi Hegde Sep 21 '15 at 13:43

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