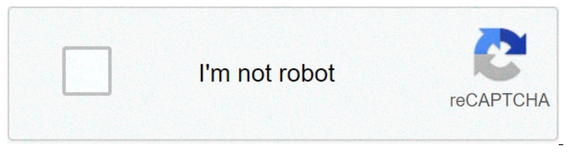

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Gson android gradle

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Examples GSON Google Android and Tutorials.Gson (also known as Google GSON) is a small Java-based library for parsing and creating JSON objects.ItÃ ¢ sa library serialization / de-serialization to convert Java objects to JSON and back .Google GSON developed for their projects, but later GSON made available to the public, from 1.0.Gson version is very powerful and is able to work with arbitrary Java objects including pre-existing objects that do not have of. uses of GsonConversion source code of Java objects to JSON and back.Conversion a JSON string to an equivalent Java object.Why GSON was CreatedHere are reasons for creating GSON: make it simple to work with JSON, providing simple toJSON () methods and fromJson (). These methods allow us to convert Java objects to JSON and vice-versa.To allow pre-existing objects can not be modified to convert to and from JSON.To provide extended support of Java Generics.To allow customized representations for objectsTo provide support for arbitrarily complex objects (with deep inheritance hierarchies and extensive use of generic types) Installing GsonGson targeted Java-based projects including Android. This means we leats different ways to install it depending on our build system. (A) GradleFor example, if you use Android then most likely you're using Android Studio and gradle.In this case the following is added in you app than drifting .gradleÃ ¢ s dependencies: Implementation 'com.google.code.gson: GSON: 2.8.5 '(b) MavenIf you are creating a general java project then most likely will be used Maven: com. google.code.gson GSON 2.8.5 (c) JarThe last option to directly use the vessel. You download them to the central Maven and add to your Jar project.Download here.Important Classes (a) GsonGson is found in a class com.google.gson package and is the main class we need to use GSON Library.Normally we use it first the first construction of an instance GSON and then invoking toJSON (Object) or fromJson (String, Class) method on this. (B). JsonElementJsonElement is a class found in com.google.gson package that is an element Json.Here are JsonElement Items :. JsonObjectJsonArrayJsonPrimitiveJsonNull (c) is a class JsonObjectJsonObject found in com.google.gson package that represents an object type in Json.This object can include name-value pairs in which the names are strings and values are any other type of JsonElement.With this then we can build a JsonElements tree. These elements are maintained in order were added. (D) JsonParserJsonParser is a class found in com.google.gson package that is used to parse JSON in a syntactic tree JsonElementsCreating Gson1. GSON () The first way to create or build GSON aim is to use the manufacturer defalu :. GSON () This will build a GSON object with default configuration default configuration.That has the following settings: The JSON generated using methods toJSON is a compact representation. This means that all do not need white space is removed. You can change this behavior with GsonBuilder setPrettyPrinting # (). The JSON generated omits all the fields that are null. Note that the null values in the arrays are required as it is given an array is an ordered list. In addition, if a field is not zero, but its generated JSON is empty, the field is. You can configure GSON to serialize null values by setting # GsonBuilder serializeNulls (). GSON provides the default serialization and de-serialization of enumerations, Map, java.net.URL, java.net.URI, java.util.Locale, java.util.Date, and java.math.BigDecimal Classes.2. GSONBUILDGONBUILDER can be used to create a GSON instance with various configurations settings.gson GSON = NEW GSONBUILDER () SETPRETTYPRINTING () CREATE (); .. GSONBUILDER follows the builder, and is typically used with different configuration methods before invoking to set up The options you want, and, finally, calling creates) Methods (Method.Important GSON (A). (A). Method serializes the specified object, including those of generic types, in its equivalent GSON JSON representation.Gson GSON = new (); gson.toJson (map); It must be used if the specified object is a generic type. For non-generic objects, use toJSON (Object, Extra) instead. (B). Method fromJsonThis deserializes JSON specified in an object of the specified type. This method is useful if the specified object is a generic type. For non-generic objects, use fromJson (String, Class) instead.If you have the JSON into a reader instead of a string, use fromJson (Reader, Type) instead. (C). toJsonTreeThis method serializes the specified object, including those of generic types, in its equivalent representation as a JsonElements tree. This method should be used if the specified object is a generic type. For non-generic objects, use toJsonTree (Object) instead. (D). getAdapterReturns the type adapter type.Full GSON Hello World ExampleLetÃ ¢ s see an example hello full GSON world. You can copy paste this example into your IDE until you have installed and GSON run.import com.google.gson.Gson; / ** * * * GSON Hello World Class / public GsonHelloWorld {public static void main (String [] args) {// init point classy place Place = new (); place.setName ("World"); Human = human new (); human.setMessage ("Hello"); human.setPlace (place); // converted to JSON GSON GSON GSON = new (); String jsonString = gson.toJson (human); System.out.println ("json" + jsonString); // prints "json {" message ":" Hello "" place ": {" name ":" World "}}" // converted from JSON human newHuman = gson.fromJson (jsonString, Human.class); newHuman.say (); // "Press Hello, world!" } Private static class Human {String private message; Private place; public String getMessage () {return message; } Public Void SetMessage (message String) {THIS.MESSAGE = MESSAGE; } Public Place getPlace () {return place; } Public void setPlace (place) {this.place = place; Let} public void () {System.out.println (); System.out.println (getMessage () + "" + getPlace () getName () + "."); }} Private static class Location {private String name; Public String GetName () {return name; } SetName Void Public (string name) {this.name = name; }}} Examples GSON fast and how Toa SIN these examples we are using Google Gson.1. How to convert JSONSuppose Map to give you a map with a string key and a value T. And I say to map or convert a JSON string.How would you do it? Well you can simply use the toJSON () method of GSON class. You first have to create an instance of that class GSON then invoke that method. public static String mapToJsonStr (Map map) {GSON GSON GSON = new (); return gson.toJson (map); } 2. How to convert JSON to MapWhat about whether you have JSON String and we ask you to convert it to a map data structure java.Well then using GsonÃ ¢ s fromJson () method.However this time you have to instantiate TypeToken with that of a map as a generic parameter. Then pass the string JSON as our first parameter in fromJson () method. And the instance type as our second parameter. public static Map jsonStrToMap (String jsonStr) {GSON GSON GSON = new (); Type Type = new TypeToken () {} .getType (); return gson.fromJson (jsonStr, type); } 3. How to convert JSON to right ObjectAll have a JSON string, and was rumored to convert it into an object of type.Well date, once you pass the JSON string and type the fromJson () method. public static T jsonToObj (jsonStr String, Class classOfT) {return new GSON () fromJson (jsonStr, classOfT) .; } 4. How to convert JSON to ArrayListA common scenario in many projects is to convert a JSON string to an ArrayList, the most commonly used collection.We Using the TextutilSÃ ¢ isempty () method to check the presence of vacuum values.then we get our typetoken example with JSonobjects Arraylist passed as our generic Type.Then use the Fromjson () method to get our JSonobjects.then arraylist now We can cycle through it and to fill the IL We want to populate. Static Public Arraylist JsontoArraylist (String JSON, Class Clazz) {iftutils.isempty (JSON)) {Return NULL; } Type Type = New Typiceken () {} .GETTYPE (); Arraylist JSONOBJECTS = NEW GSON (). Dajson (JSON, type); Arraylist Arraylist = New Arraylist (); For (JSonobject JSONOBJECT: JSONOBJECTS) {ArrayList.add (New GSON (). DAJSON (JSONOBJECT, CLAZZ)); } Return Arraylist; } 5. How to convert the list to JSonanether Thing common is to convert a list to a JSON string. Perhaps you want to serialize that list and send it above the place where or a fundamental way to expose it as API.AGAIN, the TOJSON () method makes it easily for us. Static Public String Listojson (List List) {GSON GSON = New GSON (); Jsonstruding string = gson.tojson (list); Return JStrucing; } 6. How to convert the object with JSsyou You have an object and you should convert it to JSON, well, you simply invoked the TOJSON () method with the object passed as a parameter. Static Public String Object2Json (T T) {GSON GSON = New GSON (); return gson.tojson (t); } 7. How to exclude specific fields from serialization without annotation the fields to include routes in GSON. However, we can do it without annotations. GSON GSON = NEW GSONBUILDER () .SETHEXCLUSIONSTRATEGIES (NEW TESTEXCLSTRAT ()) //. Serializenulls ()

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