

# classToExtendedJSON

Runtime 2021.6 Builder 7.15.0

Syntax	<pre>set aString = anObject.classToExtendedJson() set aString = anObject.classToExtendedJson(format) set aString = anObject.classToExtendedJson(options)</pre>						
Semantics	<p>The operation <code>classToExtendedJson()</code> takes any object (<code>anObject</code>) and tries to map it to an Extended JSON string <code>aString</code>.</p> <div><p><b>i</b> In opposition to <a href="#">classToJson() Operation</a>, <code>classToExtendedJson()</code> preserves the order of attributes of the converted class. JSON types and xUML types are mapped as listed in chapter <a href="#">jsonToClass() Operation</a>. These details also refer to Extended JSON.</p></div> <p>If the conversion is not possible, an error is raised.</p> <div><p><b>i</b> <code>classToExtendedJSON()</code> does not support cyclic structures. When a cyclic structure is detected during serializing the given object, an exception will be thrown.</p><p>Runtimes before 2023.1 Trying to serialize a cyclic structure leads to a service crash.</p></div> <p>You can hide attributes from being serialized by applying stereotype <code>&lt;&lt;E2EPrivate&gt;&gt;</code>. Refer to <a href="#">Hiding Attributes From Interfaces</a> for more information.</p>						
Substitutables	<table><tr><td>a n o b j e c t</td><td>Any object.</td></tr><tr><td>a s t r i n g</td><td>Target Extended JSON document as <b>String</b>.</td></tr><tr><td>f o r m a t</td><td>String that specifies the format of the Extended JSON that should be produced (more details see <code>options</code> below).</td></tr></table>	a n o b j e c t	Any object.	a s t r i n g	Target Extended JSON document as <b>String</b> .	f o r m a t	String that specifies the format of the Extended JSON that should be produced (more details see <code>options</code> below).
a n o b j e c t	Any object.						
a s t r i n g	Target Extended JSON document as <b>String</b> .						
f o r m a t	String that specifies the format of the Extended JSON that should be produced (more details see <code>options</code> below).						

## Related Pages:

- [ExtendedJSONToClass](#)
- [Hiding Attributes From Interfaces](#)
- [classToJson\(\) Operation](#)
- [jsonToClass\(\) Operation](#)
- [MongoDB Adapter](#)

## Related Documentation:

- [MongoDB Extended JSON](#)

options


This optional parameter is an object of type **ExtendedJSONComposerOptions**.

ExtendedJSONComposerOptions

+format : ExtendedJSONFormat [1]  
+keepNulls : Boolean [1]  
+writeTypeDiscriminator : Boolean [1] = false

Its attributes are:

Attribute	Type	Description	Allowed Values	
format	String	Use <b>format</b> to specify which kind of Extended JSON should be produced: canonical or relaxed Extended JSON.	canonical	Produce canonical Extended JSON (default).
			relaxed	Produce relaxed Extended JSON.
keepNulls	Boolean	When <b>keepNulls</b> is true, attributes of anObject with NULL values will be rendered to the Extended JSON object, otherwise they will be left out completely (see also chapter <a href="#">NULL Values</a> ). The default behavior of <code>classToJson()</code> (i.e. when called without options) is equivalent to <b>keepNulls=false</b> .	true	Render NULL attributes to the Extended JSON string.
			false	Leave out NULL attributes (default).
writeTypeDiscriminator	Boolean	Runtime 2021.6 Use <b>writeTypeDiscriminator</b> to suppress the generation of xUML type properties ("e2e: type") to the generated JSON. If this option is true, the Runtime will write the original xUML type to the generated JSON in form of "e2e: type": "<name of the original xUML type>" if the type being serialized does not match the expected metadata. This is necessary if you want to convert the generated Extended JSON back to an xUML class using <a href="#">extended JSONToClass()</a> Operation.	true	Write xUML type discriminator.
			false	Do not write xUML type discriminator (default).

 In contrast to [classToJson\(\)](#) Operation, **writeTypeDiscriminator** defaults to **false** for `classToExtendedJson()`.

#### Examples

```
set aMongoDBdocument = myAddress.classToExtendedJson();
set aMongoDBdocument = myAddress.classToExtendedJson(
  "relaxed" );
```

#### Example File (Builder project Add-ons/MongoDB):



<your example path>\Add-ons\MongoDB\uml\simpleMongoDbAccess.xml

For more information on Extended JSON refer to [MongoDB Extended JSON](#).